

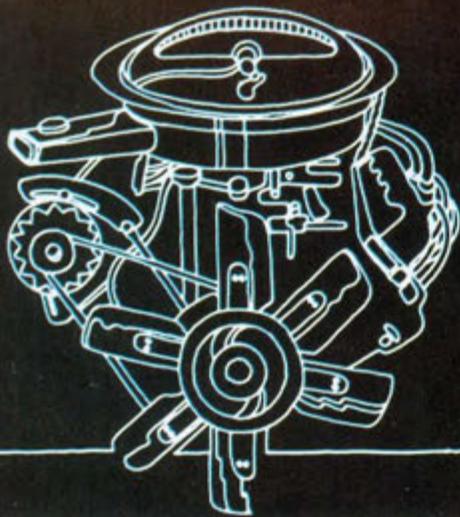
24854



# DR. OLDSMOBILE'S 4-4-2 AND W-MACHINES

Detailed 4-4-2, W-30, and W-31 specifications; special packages; new performance parts and accessories; plus an order form inside.





**FOR 1970,  
DR. OLDSMOBILE  
INTRODUCES  
AS LARGE A V-8 AS  
EVER BOLTED INTO A  
SPECIAL-PERFORMANCE  
PRODUCTION  
AUTOMOBILE!**

There's more than one way to make a car run.

You can load up on cubic inches. Or you can cut down on excess weight.

For 1970, the good doctor accomplished both.

He's come up with a new 455-cube V-8 that actually weighs in lighter than last year's 400-cube job!

It's big. It's strong. And it's standard—in every 1970 Olds 4-4-2!

Here's how a 455-powered 4-4-2 dresses out when ordered with the good W-Machine equipment . . .

**4-4-2 W-MACHINE SPECS**

Engine type . . . . .H.C. air-inducted  
W-30 Rocket V-8  
Displacement . . . . .455 cu. in.  
Bhp . . . . .370 at 5200 rpm  
Torque, lb.-ft. . . . .500 at 3600 rpm  
Bore x stroke, in. . . . .4.125 x 4.250  
Compression ratio . . . . .10.50-to-1  
Combustion chamber volume, min.  
allowable . . . . .91.72 cc  
Min. cyl. head vol. . . . .69.75 cc  
Min. deck clearance . . . . .002 below  
Carburetion . . . . .Quadrajets 4-bbl  
performance-calibrated

# 4-4-2 W-30

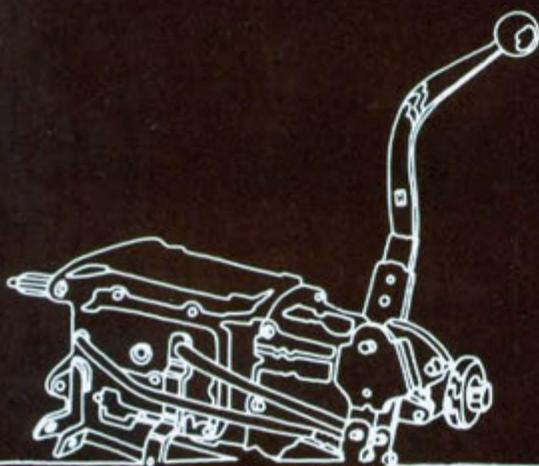


Olds offers, at modest extra cost, a variety of options and accessories, many of which are shown in the car illustrations.

Intake manifold ..... Aluminum  
 Camshaft duration  
 Intake, exhaust ..... 328°  
 Camshaft overlap  
 Intake, exhaust ..... 108°  
 Total valve lift  
 Intake, exhaust ..... .475  
 Valve diameter (Max.)  
 Intake ..... 2.077  
 Exhaust ..... 1.630  
 Brakes ..... Manual discs, front,  
 9.5-inch drums, rear  
 Transmission .... Full sync h-d close-  
 ratio 4-speed with Hurst Competi-

tion Shifter, or beefed, performance-  
 calibrated Turbo Hydra-matic 400,  
 required.  
 Axle ..... 3.42 Anti-Spin  
 Exhaust system ..... Full duals  
 Cooling system ..... H-d radiator  
 and power-saving clutch fan  
 Suspension ..... FE2  
 Includes h-d springs, shocks, control  
 arms, plus stabilizer bars front and  
 rear.  
 Wheels ..... H-d 14" with 7" rim  
 Tires ..... PK5  
 G70 x 14" bias-ply, glass-belted

blackwalls with raised white letters.  
 Mirrors ..... Two sports-styled  
 outside mirrors (left-side with re-  
 mote control).  
 Also included in W-30: Lightweight  
 fiberglass hood with functional scoops,  
 big hood stripes, chromed hood tie-  
 downs, and low-restriction air cleaner  
 (W25). "Select fit" engine parts.  
 Reduced body sound deadener. Spe-  
 cial paint stripes along body sides.  
 Die-cast W-30 identification on front  
 fenders. Strato Bucket Seats are stan-  
 dard in all 4-4-2 models.



**THE GOOD DOC  
GOT BUSY INSIDE TOO.  
MEET THE FIRST  
HEAVY-DUTY SHIFTER  
MOUNTED IN BUTTER!**

Bolt a stick onto a really tough 3- or 4-speed gear-box and you've got a back-busting shifting job ahead of you, right? Wrong!

The good Doc has that problem completely trailered.

He's coupled beefed, precision gearing with that irrepressible Hurst Competition Shifter.

Fast? Easy? You go through the digits like a hot knife whips through butter! Here's how Olds Cutlass S (or F-85) stacks up when ordered with complete W-Machine equipment . . .

**CUTLASS S W-MACHINE SPECS**  
 Engine type . . . . . H.C. air-inducted  
 W-31 Rocket V-8  
 Displacement . . . . . 350 cu. in.  
 Bhp . . . . . 325 at 5400 rpm  
 Torque, lb.-ft. . . . . 360 at 3600 rpm  
 Bore x stroke, in. . . . . 4.057 x 3.385  
 Compression ratio . . . . . 10.50-to-1  
 Combustion chamber volume, min.  
 allowable . . . . . 67.92 cc  
 Min. cyl. head vol. . . . . 60.58 cc  
 Min. deck clearance . . . . . .002 below  
 Carburetion . . . . . Quadrajets 4-bbl  
 performance-calibrated

# CUTLASS S W-31



Intake manifold . . . . . Aluminum  
 Camshaft duration  
   Intake, exhaust . . . . . 308°  
 Camshaft overlap  
   Intake, exhaust . . . . . 82°  
 Total valve lift  
   Intake . . . . . .474  
   Exhaust . . . . . .474  
 Valve diameter (Max.)  
   Intake . . . . . .2.005  
   Exhaust . . . . . .1.630  
 Brakes . . . . . Manual discs, front.  
   9.5-inch drums, rear  
 Transmission . . . Full sync h-d 3-on-the-

floor with Hurst Competition Shifter:  
 close- or wide-ratio h-d 4-speed  
 with Hurst Competition Shifter; or  
 beefed, performance-calibrated  
 Turbo Hydra-matic 350, required.  
 Axle . . . . . 3.91 Anti-Spin  
 Cooling system . . . Extra h-d radiator  
 and power-saving clutch fan  
 Suspension . . . . . FE2  
 Includes h-d springs, shocks, control  
 arms, plus stabilizer bars front and  
 rear.  
 Wheels . . . . . H-d 14" with 7" rim  
 Tires . . . . . PK5

G70 x 14" bias-ply, glass-belted  
 blackwalls with raised white letters.  
 Mirrors . . . . . Two sports-styled  
 outside mirrors (left-side with re-  
 mote control).  
 Exhaust system . . . . . Full duals  
 Also included in W-31: Lightweight  
 fiberglass hood with functional scoops,  
 big hood stripes, chromed hood tie-  
 downs, and low-restriction air cleaner  
 (W25). "Select fit" engine parts. Re-  
 duced body sound deadener. Special  
 paint stripes along body sides. Die-cast  
 W-31 identification on front fenders.

Olds offers, at modest extra cost, a variety of options and accessories, many of which are shown in the car illustrations.

**DR. O EMERGES FROM  
THE WIND TUNNEL.  
AND A COMPETITION-  
CHILLING, UNDER-HOOD  
BLIZZARD IS BORN!**

There are all kinds of hood scoops around. Many of them are just for looks. And a lot of others might just as well be.

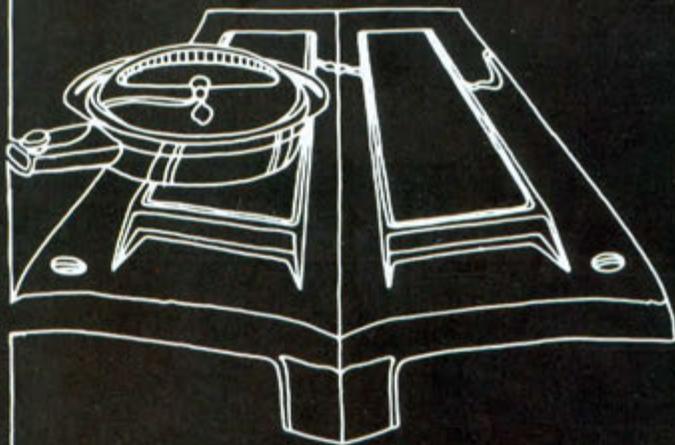
Dr. Oldsmobile figures if you're going to do something, you ought to do it up big.

That means designing and testing air-grabbing scoops that are big enough and placed forward far enough to really do the job.

Cold-Air Induction will never replace cubes or high-compression (which Olds already has plenty of). But Cold-Air can be icing on the cake by getting you extra hp out of thin air—when done properly!

**OLDS 4-4-2 SPECS**

- Engine type . . . . . H.C. Rocket V-8
- Displacement . . . . . 455 cu. in.
- Bhp . . . . . 365 at 5000 rpm
- Torque, lb.-ft. . . . . 500 at 3200 rpm
- Bore x stroke, in. . . . . 4.125 x 4.250
- Compression ratio . . . . . 10.50-to-1
- Combustion chamber volume, min. allowable . . . . . 91.72 cc
- Min. cyl. head vol. . . . . 69.75 cc
- Min. deck clearance . . . . . .002 below
- Carburetion . . . . . Quadrajet 4-bbl
- Camshaft duration
  - Intake/exhaust (Sync) . . . 294° / 296°
  - Intake/exhaust (Auto) . . . 285° / 287°
- Camshaft overlap
  - Intake/exhaust (Sync) . . . . . 68°
  - Intake/exhaust (Auto) . . . . . 57°
- Total valve lift
  - Intake/exhaust . . . . . .472
- Valve diameter (Max.)
  - Intake . . . . . .2.077
  - Exhaust . . . . . .1.630
- Brakes . . . . . 9.5" drums, 157.8 sq. in. lining area
- Transmission . . . . . Full sync h-d 3-on-the-floor with Hurst Competition Shifter.
- Axle (Sync) . . . . . 3.08 ratio
- Exhaust system . . . . . Full duals
- Suspension . . . . . FE2
  - Includes h-d springs, shock, control arms, plus stabilizer bars front and rear.
- Wheels . . . . . H-d 14" with 7" rim
- Tires . . . . . P26 G70 bias-ply, glass-belted with white stripe.
- Strato Bucket Seats, standard in all 4-4-2 models.
- Lightweight fiberglass hood, functional scoops, big hood stripes, chromed hood tie-downs, and low-restriction air cleaner (W25), available.



Olds offers, at modest extra cost, a variety of options and accessories, many of which are shown in the car illustrations.

4-4-2





**NOSE AROUND  
IN THE GOOD DOG'S  
PARTS BIN AND  
HERE'S JUST A FEW  
THINGS YOU'RE LIKELY  
TO FIND...**

**M21 Heavy-Duty Close-Ratio 4-Speed.** Fully synchronized. Features helical-cut forged gears, forged gearshafts, high-capacity bearings, lightweight aluminum case, and Hurst Competition Shifter. Ratios: 2.20:1, 1.64:1, 1.28:1, 1.00:1, 2.60:1 (reverse). Required with manual W-30.

**M20 Heavy-Duty Wide-Ratio 4-Speed** (with same features as M21). Ratios: 2.52:1, 1.88:1, 1.46:1, 1.00:1, 2.60:1 (reverse). Not available in 4-4-2 models.

**M40 Beefed Turbo Hydra-matic 400.** Performance-calibrated. 3-speeds forward. Features high-performance torque converter, high rpm shift points, and firmed-up shifts. Available in W-30 only. 350 version (M38) available in W-31 only.

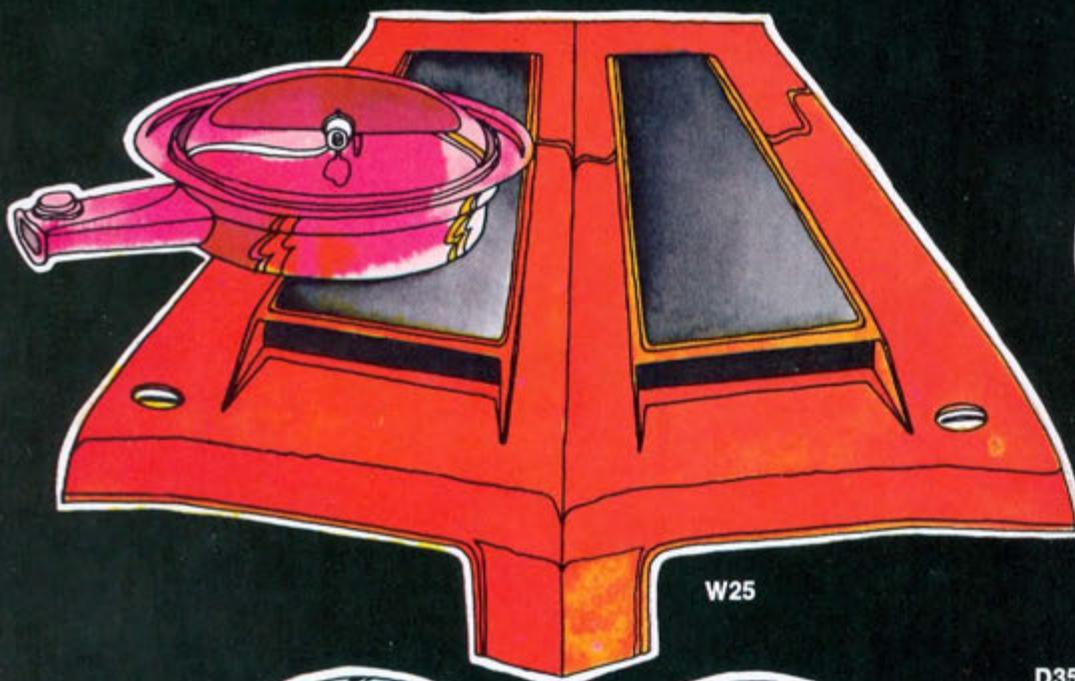
**D35 Sports-Styled Outside Mirrors.** Aerodynamically designed for low wind resistance. Color-keyed to body color. Left-side mirror features remote control.

**N34 Custom-Sport Steering Wheel.** Has four brushed-metal spokes and soft, leather-grain-vinyl rim for positive, non-slip grip.

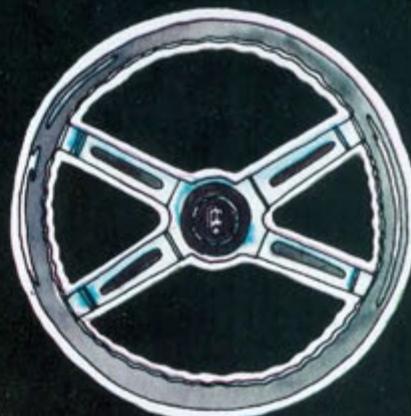
**PK5 Super-Wide G70 x 14" Tires.** Bias-ply, glass-belted blackwalls with raised white letters. They really put a foot down.

**U21 Rocket Rally Pac.** Includes 7000-rpm dash-mounted tach, clock, plus temperature and oil pressure gauges.

**W25 Hood. New Performance/Appearance Package** for 1970. Available on all 4-4-2 and Cutlass S 4-bbl models.



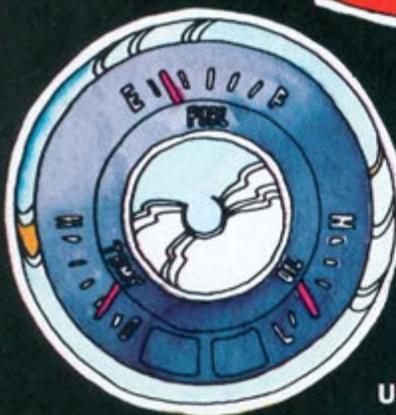
W25



N34



D35



U21



W35



PK5

Included in W-30, W-31 packages. Features lightweight fiberglass hood with functional air scoops, chromed hood tie-downs, big hood stripes, and low-restriction air cleaner.

**W26 Hurst Dual-Gate Shifter in Sports Console.** For those who are torn between a manual or automatic. This one gives you a handful of both. Available with bucket seat models only. Features Hurst Shifter and lighted, lockable map compartment.

**W27 Aluminum Axle Carrier and Cover.** Reduces weight over the conventional cast iron carrier by more than 22 pounds. Available with W-30, W-31, and W-32 only.

**FE2 Special Heavy-Duty Suspension.** Includes heavy-duty springs, shocks,

and lower control arms, plus stabilizer bars both *front and rear!* The imitators are already popping up faster than you can say "me too."

**W35 New Rear-Deck Spoiler.** Full-width fiberglass wing with up-swept tips. Color-keyed to body color. Designed for increased rear-wheel traction at higher speeds.

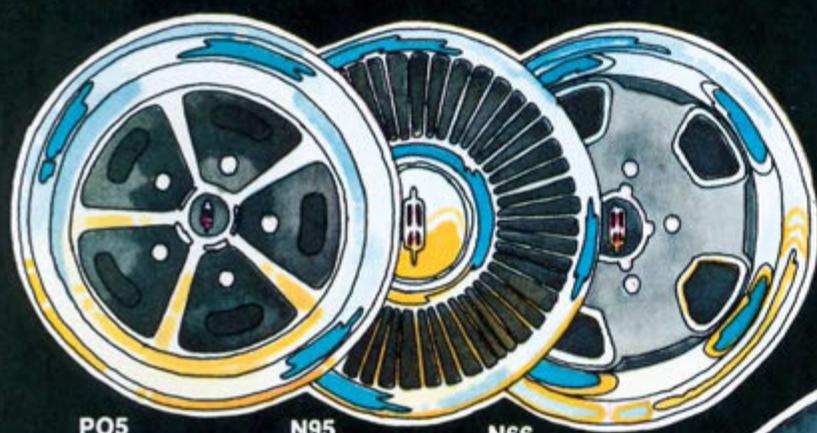
**P05 Super Stock I Wheels**—bold and beefy. **N66 Super Stock II Wheels**—with big, see-through louvers. **N95** For that wire-wheel look.

**SPECIAL NOTE:** Three new performance packages now available, including two for full-size 1970 Olds models. **W32 Cutlass Supreme Performance Package.** Available with Cutlass Su-

preme SX package only. Features a Quadrajets 4-bbl carburetor; along with the 455-cube, high-compression V-8, Turbo Hydra-matic 400 transmission, dual exhausts, and distinctive ornamentation which are included in the SX package.

**W33 Olds 88 Performance Package.** Available in all Delta 88 models with automatic transmission. Package includes a high-performance 455-cube/390-hp Rocket V-8, 4-bbl carb, dual exhausts, and 2.93-to-1 axle.

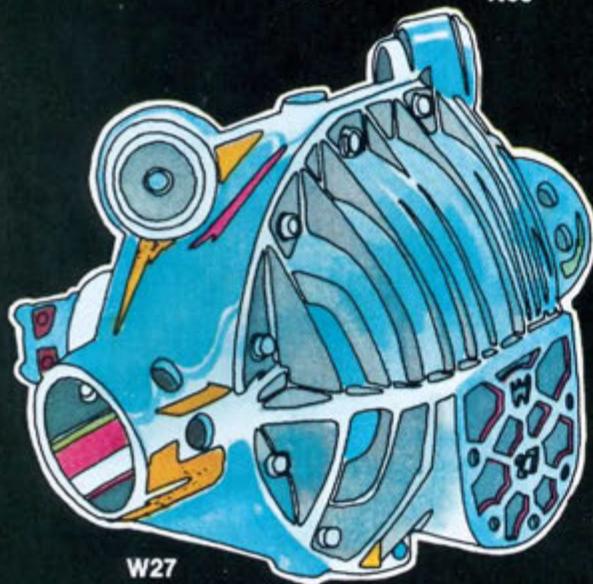
**W34 Toronado GT Package.** Includes high-performance 455-cube/400-hp Rocket V-8, 4-bbl carb, dual exhausts, special performance-calibrated Turbo Hydra-matic 400 transmission, "GT" hood emblem, custom paint striping.



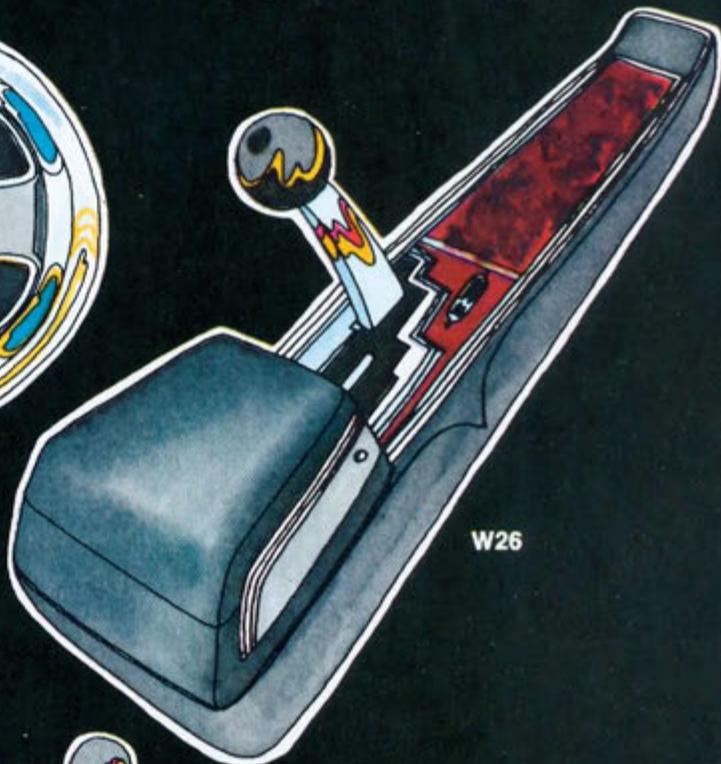
P05

N95

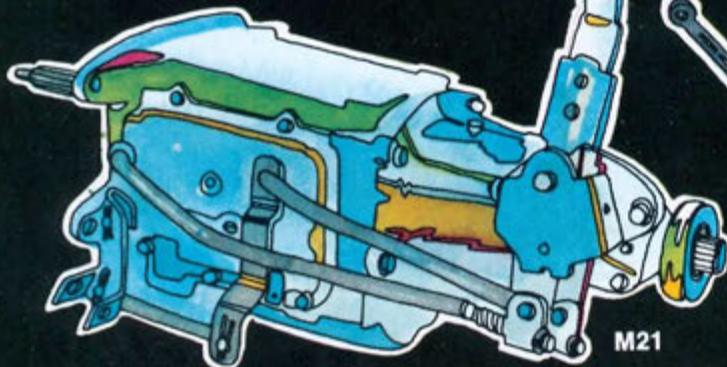
N66



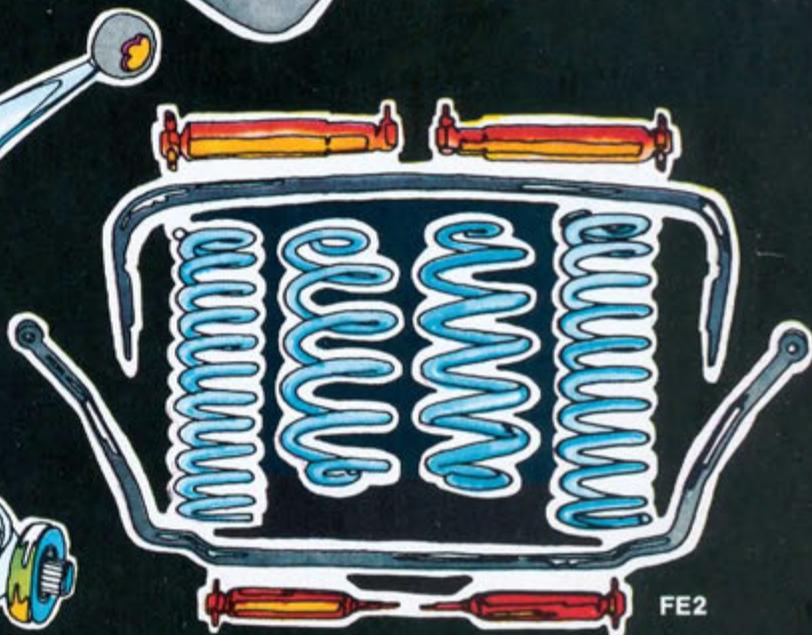
W27



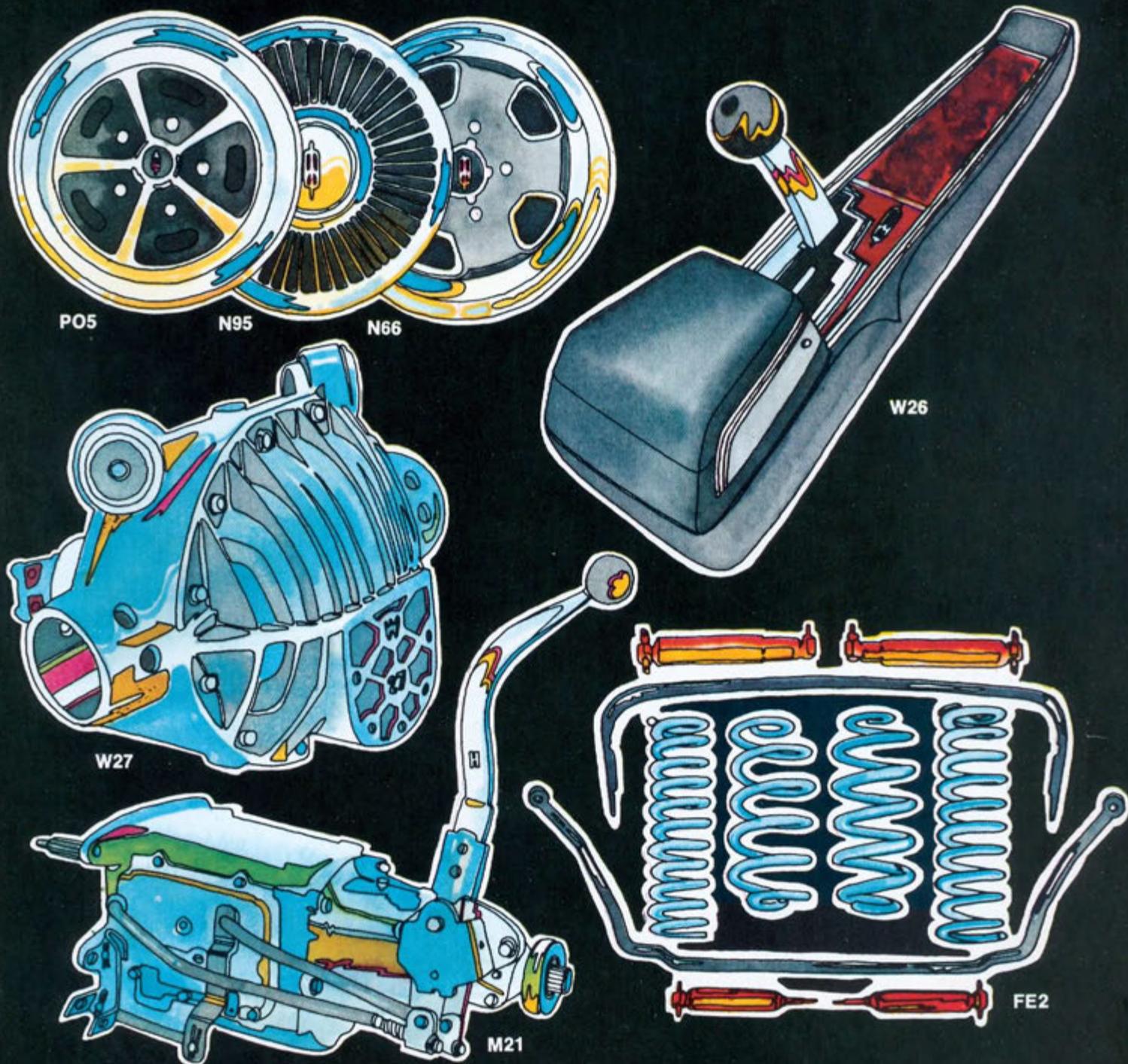
W26



M21



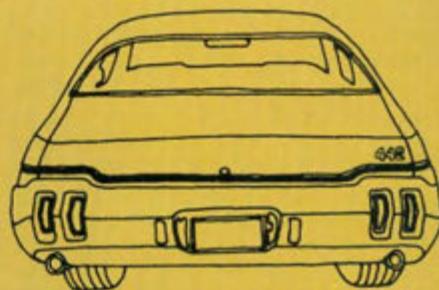
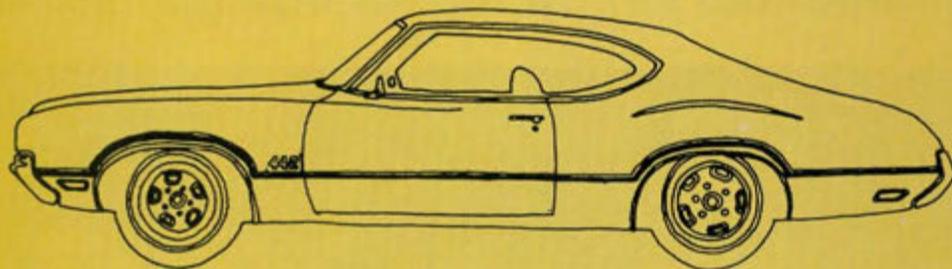
FE2



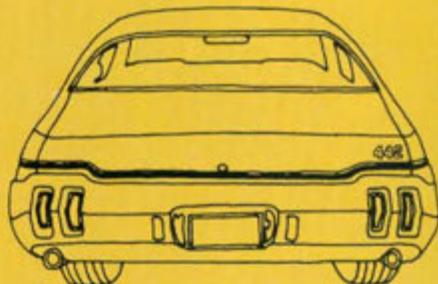
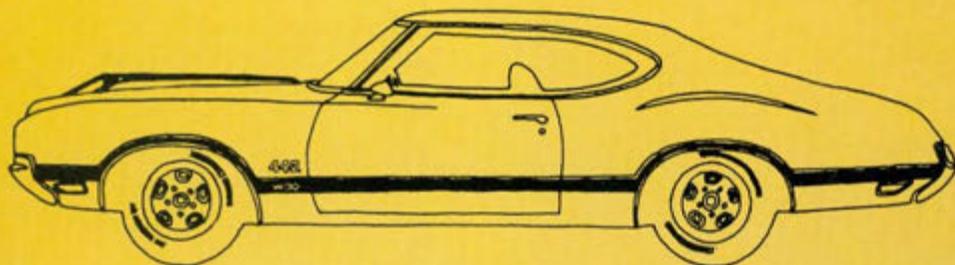
## GETTING YOUR 4-4-2 OR W-MACHINE EXACTLY THE WAY YOU WANT IT!

(To expedite matters, simply check the boxes below which indicate the equipment and level of performance you're after.

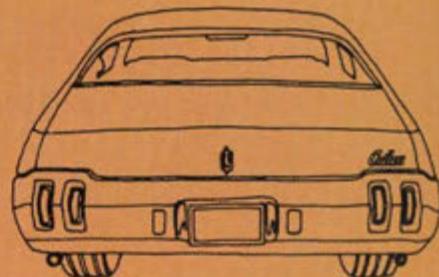
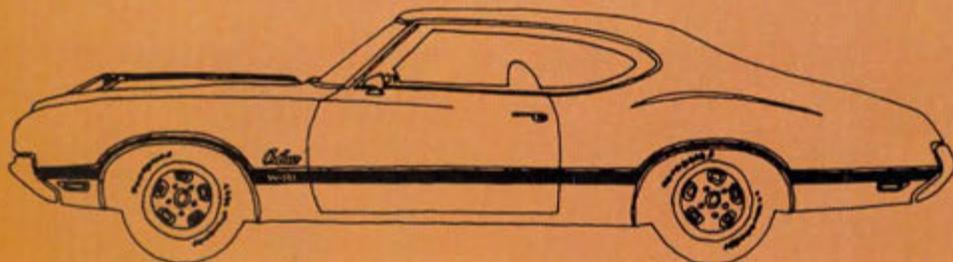
**4-4-2** Probably the most beautiful balance of performance, ride, handling, and status on the street today! Standard equipment includes: H.C. 455-cube V-8, 4-bbl carb. Full dual exhausts. Heavy-duty FE2 suspension with front and rear stabilizer bars. Super-wide G70 x 14" bias-ply, glass-belted tires with white stripes. Heavy-duty 7" wheels. Fully synchronized heavy-duty 3-speed manual transmission with Hurst Competition Shifter. Wood-grain applique on dash and door panels. Strato Bucket Seats. Custom pin striping on side and rear. Chromed cowl louvers. And more. 4-4-2 available in Holiday Coupe, Sports Coupe, and Convertible.



**4-4-2 W-30** The original Olds cold-air machine. Now featuring the big 455-cubic-inch V-8 with 370-air-induced horsepower. Nobody offers more—in cubes! Or looks! W-30 Package includes: Special 455-cube, cold-air V-8 with "select fit" parts. Lightweight fiberglass hood with functional scoops, big hood stripes, chromed hood tie-downs, and low-restriction air cleaner (W25). Performance-calibrated 4-bbl carb. High-overlap cam. Manual disc brakes, front; drums, rear. Power-saving clutch fan. Lightweight aluminum intake manifold. Reduced body sound deadener. Two sports-styled mirrors (D35). G70 bias-ply, glass-belted raised white letter tires (PK5). Special paint stripes along body sides. Die-cast W-30 identification on front fenders. All 4-4-2 standard equipment included in 4-4-2 W-30 except where replaced with W-Machine equipment.



**CUTLASS S W-31** It's like having two cars for the price of one! Because this W-Machine is equally at home in all-round street use or off-the-road service. W-31 package available in Cutlass S or F-85. Includes: Special 350-cube, cold-air V-8 with "select fit" parts. Lightweight fiberglass hood with functional scoops, big hood stripes, chromed hood tie-downs, and low-restriction air cleaner (W25). Performance-calibrated 4-bbl carb. High overlap cam. Manual disc brakes, front; drums, rear. Power-saving clutch fan. Lightweight aluminum intake manifold. Reduced body sound deadener. Two sports-styled mirrors (D35). G70 bias-ply, glass-belted raised white letter tires (PK5). H-d suspension (FE2). Full dual exhausts (N10). Special paint stripes along body sides. Die-cast W-31 identification on front fenders.





Then get with your Olds dealer.)

**Available with 4-4-2:**

- W25 Lightweight fiberglass hood** with functional scoops, big hood stripes, chromed hood tie-downs, and low-restriction air cleaner (Included in W-30).
- W26 Dual-Gate Shifter in Console.** Includes Hurst Shifter, console, wood-grain applique, lockable (and lighted) map compartment, front and rear console lamps. M40 required.
- D55 Sports Console.** Includes transmission shift lever, wood-grain applique, and lockable map compartment.
- W-30** See listing of W-30 package components under 4-4-2 W-30 on facing page.
- D35 Two sports-styled outside mirrors** (left-side with remote control).
- G80 Anti-Spin Performance Axle.** Automatically shifts power to wheel

with best traction. Included in G88, G92.

- G88 Performance Axle Package. 3.91-to-1.** Includes extra-heavy-duty radiator and power-saving clutch fan, Anti-Spin, and heavy-duty axle shafts.
- G92 Performance Axle Package. 3.42-to-1.** Includes heavy-duty radiator, Anti-Spin, and heavy-duty axle shafts.
- 4.33-, 4.66-, 5.00-to-1 axle ratios** also available, dealer installed. (Not recommended for street use.)
- M21 Fully synchronized, heavy-duty, close-ratio 4-speed transmission.** Includes Hurst Competition Shifter and 3.42 axle ratio.
- M40 Turbo Hydra-matic 400 automatic.** Three forward speeds. Includes 3.23 axle ratio.
- N34 Custom-Sport Steering Wheel.** 4-spoke, with soft leather-grain-vinyl

non-slip rim.

- N47 Vari-Ratio Power Steering.**
- JL2 Power Brakes** with discs up front.
- N66 Super Stock II Wheels.**
- N95 Simulated Wire Wheels.**
- P05 Super Stock I Wheels.**
- U21 Rocket Rally Pac.** Includes 7000-rpm tach, clock, plus temperature and oil gauges.
- W35 Rear-Deck Spoiler,** fiberglass.
- Y73 GT Hood Paint Stripes.** Not available with W-25 or W-30.

To assure the ultimate in performance and reliability, the following items are required when ordering your 4-4-2 W-Machine:

- M21 Fully synchronized, heavy-duty close-ratio 4-speed transmission.** Includes Hurst Competition Shifter.  
OR
- M40 Special "W" Turbo Hydra-matic 400.** Includes high-performance torque converter, high rpm shift points, and firmed-up shifts.
- G91 Axle, 3.23-to-1.** With C60.
- G92 Performance Axle Package. 3.42-to-1.** Includes heavy-duty radiator, Anti-Spin, and heavy-duty axle shafts.

**Available with 4-4-2 W-30:**

- C60 Air Conditioning.** Now available on W-30 with 3.23-to-1 axle ratio. M40 and JL2 required.

- W27 Aluminum Axle Carrier and Cover.**
- W26 Dual-Gate Shifter in Console.** Includes Hurst Shifter, console, wood-grain applique, lockable (and lighted) map compartment, front and rear console lamps. M40 required.
- D55 Sports Console** with transmission shift lever. Includes wood-grain applique and lockable map compartment.
- G88 Performance Axle Package. 3.91-to-1.** Includes extra-heavy-duty radiator, Anti-Spin, and heavy-duty axle shafts. Recommended for off-highway use.
- 4.33-, 4.66-, and 5.00-to-1 ratios available—dealer installed.** (Not recommended for street use.)
- N34 Custom-Sport Steering Wheel.** 4-spoke, with soft leather-grain-vinyl non-slip rim.

- N47 Vari-Ratio Power Steering.**
- JL2 Power Brakes** with discs up front (automatic only).
- N66 Super Stock II Wheels.**
- N95 Simulated Wire Wheels.**
- P05 Super Stock I Wheels.**
- U21 Rocket Rally Pac.** Includes 7000-rpm tach, clock, plus temperature and oil gauges.
- W35 Rear-Deck Spoiler,** fiberglass.

To assure the ultimate in performance and reliability, the following items are required when ordering your F-85 or Cutlass S W-Machine:

- M14 Fully synchronized, heavy-duty 3-speed manual transmission.** Includes Hurst Competition Shifter.  
OR
- M20 Fully synchronized, heavy-duty wide-ratio 4-speed manual transmission.** Includes Hurst Competition Shifter.  
OR
- M21 Fully synchronized, heavy-duty close-ratio 4-speed manual transmission.** Includes Hurst Competition Shifter.  
OR
- M38 Special "W" Turbo Hydra-matic 350.** Includes high-performance torque converter, high rpm shift points, and firmed-up shifts.

- G88 Performance Axle Package. 3.91-to-1.** Includes extra-heavy-duty radiator, Anti-Spin, and heavy-duty axle shafts.  
OR
- G92 Performance Axle Package. 3.42-to-1.** Includes heavy-duty radiator, Anti-Spin, and heavy-duty axle shafts.

**Available with W-31:**

- W27 Aluminum Axle Carrier and Cover.**
- W26 Dual-Gate Shifter in Console.** Includes Hurst Shifter, console, wood-grain applique, lockable (and lighted) map compartment, front and rear console lamps. M40 required.
- D55 Sports Console** with transmission shift lever. Includes wood-grain applique and lockable map compartment.
- 4.33-, 4.66-, and 5.00-to-1 ratios available—dealer installed.** (Not recom-

- mended for street use.)
- N34 Custom-Sport Steering Wheel.** 4-spoke with soft leather-grain-vinyl non-slip rim.
- N47 Vari-Ratio Power Steering.**
- N66 Super Stock II Wheels.**
- N95 Simulated Wire Wheels.**
- P05 Super Stock I Wheels.**
- U21 Rocket Rally Pac.** Includes 7000-rpm tach, clock, plus temperature and oil gauges.
- W35 Rear-Deck Spoiler,** fiberglass.

For comfort and convenience accessories available with 4-4-2, W-30, and W-31, see your Olds dealer.



24873

NEW  
FEATURES

# 1970 OLDSMOBILE PRODUCT SELLING INFORMATION

# 1970 Oldsmobile Product Selling Information

## Table of Contents

This book is designed to help Olds salesmen find facts about the new models . . . *fast*.

It has been simplified and streamlined somewhat, with one purpose in view—to put everything at the salesman's fingertips that will help him close more sales in less time.

It should be of immeasurable value to those who have proved, time and time again, that the successful salesman is the one who knows his product . . . *thoroughly*.

### New Features Section

Here you will find, first, the new features that are common to *all* 1970 Oldsmobiles; then, those that are typical of each model group.

	Page
All Models . . . . .	2-3
Toronado . . . . .	4-5
Ninety-Eight . . . . .	6-7
88 Models . . . . .	8-9
Intermediate Models . . . . .	10-11
W-Machines . . . . .	12

### Model Features Section

On the first page of each model group in this section, you will find standard equipment common to all cars in the group. On the second page, the styling extras characteristic of the group. On the third page, its marks of distinction or identification. And, on subsequent pages, the features that distinguish the individual models in the group.

On the last page of this section, you will also find standard and safety features of all 1970 Oldsmobile models.

Toronado . . . . .	13-16
Ninety-Eight . . . . .	17-22
88 Models . . . . .	23-30
Intermediate Models . . . . .	31-42
Station Wagons . . . . .	43-48
W-Machines . . . . .	49-53
Standard and Safety Features— All Models . . . . .	54

### Property of

### Technical Descriptions Section

In this section, we take the cars apart, to tell you what makes them tick. You will find details of Air Conditioners, Body Construction, Driving Controls, Heaters, Instrument Panels, Lamps, Mirrors, Radios, Seats, Tape Players, Ventilation, and Windows.

	Page
Body Construction, Finish, Lamps . . . . .	56-58
Interior Trim, Appointments, Luggage Compartments . . . . .	59-60
Interior Lamps, Mirrors . . . . .	61-62
Seats, Seat Equipment . . . . .	63-65
Ventilation, Windows . . . . .	66
Heater, Air Conditioner . . . . .	67
Instrument Panel . . . . .	68-69
Radios, Tape Players . . . . .	70
Driving Controls . . . . .	71-72

Following these, is a sub-section that details the elements that make the Escape Machines the go-machines that they are for 1970.

Power Teams . . . . .	73-74
Engines, Transmissions, Axles . . . . .	75-77
Engine Power Curves and Specifications . . . . .	78-79

Then follows a sub-section devoted to what makes Oldsmobiles ride feather-light and handle fingertip-easy.

Steering, Suspension, Brakes . . . . .	80-82
--	-------

The succeeding sub-section details recommended and available equipment for such heavy going as police use and trailer towing.

Police Equipment . . . . .	83
Trailer Equipment Chart . . . . .	84-85

The book comes to an orderly conclusion with a comprehensive Guardian Maintenance Schedule, which will help Escape Machine owners escape costly repairs and high maintenance costs.

Guardian Maintenance Schedule . . . . .	86
Alphabetical Index . . . . .	87-88

Oldsmobile Division, General Motors Corporation



Litho in U.S.A. September, 1969

This book is for the use of Oldsmobile dealers and salesmen in presenting the outstanding benefits of Oldsmobile ownership. Some of the features shown on the models illustrated in the book are available at extra cost. (See last page.) Oldsmobile reserves the right to make changes at any time, without notice, in colors, equipment, specifications and models, and to discontinue models.

## Exterior (4-4-2)

GRILLES, Black 4-4-2 Twin  
 HOOD LOUVERS, Chrome  
 MOLDINGS, Chrome Wheel-Opening  
 PAINT STRIPES, Body-Side and Trunk-Lid

## Exterior (All Models)

BUMPERS, Tri-Nickel-Plated  
 FINISH, Magic-Mirror . . . 19 colors, including 4 special-order colors  
 FLASHER, 4-Way Hazard Warning  
 GRILLES, Twin  
 HOOD, Counterbalanced Dual-Latched  
 HOOD INSULATION, Full Fiberglass (except F-85)  
 MIRROR, Oval Outside Rearview  
 RADIO ANTENNA, Windshield  
 WHEEL HUBCAPS, Chrome  
 WINDSHIELD WIPERS, Recessed-Park (except F-85)

## Interior (All Models)

ASHTRAY, Instrument-Panel  
 CIGAR LIGHTER, Instrument-Panel  
 GLOVE COMPARTMENT, Key-Locked . . . with rotary latch  
 HEATER/DEFROSTER, Air-Mix  
 INSTRUMENT-PANEL TRIM, Wood-Grain-Vinyl (4-4-2, Cutlass Supreme)  
 LAMP SWITCHES, Automatic Front-Door Interior-  
 MIRROR, Inside Day-Night Rearview  
 SEAT HEAD RESTRAINTS, Dual Front-  
 SEAT LAP BELTS, Front- and Rear- . . . pushbutton buckles  
 SEAT SHOULDER BELTS, Front (except Convertible)  
 STEERING WHEEL, Deluxe (except F-85)  
 TRUNK FLOOR MAT, Patterned-Rubber  
 VISORS, Padded Windshield Sun

## Power Train (4-4-2)

AXLE, 3.08-to-1 Olds-Built Hypoid Rear

## STANDARD EQUIPMENT

BATTERY, 74-Ampere-Hour/90-Plate Delco-Eye Energizer  
 DELCOTRON, 37-Ampere G. S. I.  
 DRIVE SHAFT, Heavy-Duty Precision-Balanced . . . 2 universal joints  
 ENGINE, 365-hp 4-4-2 Rocket 455 V-8 H.C.

EXHAUST SYSTEM, Aluminized . . . dual straight-through mufflers, resonators, and tailpipes

FUEL TANK, 20-Gallon . . . rear filler

STARTER, Ultra-High-Performance

TRANSMISSION, Fully Synchronized 3-Speed Floor-Shift Heavy-Duty Manual . . . Hurst Shifter

### ENGINE SPECIFICATIONS:

Horsepower at rpm . . . 365 at 5000  
 Torque at rpm (lb.-ft.) . . 500 at 3200  
 Compression ratio (to 1) . . . 10.50  
 Carburetor barrels (no.) . . . . . 4  
 Fuel recommended . . . . . Premium

### Power Train (Cutlass, F-85)

AXLE, Olds-Built Hypoid Rear- . . . 3.08- (V-8) or 2.78-(L-6) to-1 ratio

BATTERY, 61-Ampere-Hour/66-Plate (V-8) or 45-Ampere-Hour/54-Plate (L-6) Delco-Eye Energizer

DELCOTRON, 37-Ampere

DRIVE SHAFT, Precision-Balanced . . . 2 universal joints

ENGINE, 310-hp Rocket 350 V-8 (Cutlass Supreme) or 250-hp Rocket 350 V-8 or 155-hp Action-Line 6 (other models)

EXHAUST SYSTEM, Aluminized . . . reverse-flow muffler and tailpipe, plus resonator in Cutlass Supreme

FUEL-TANK, 20-Gallon . . . rear filler

STARTER, High-Performance (V-8) or High-Torque (L-6)

TRANSMISSION, Fully Synchronized 3-Speed Column-Shift

### ENGINE SPECIFICATIONS:

V-8 Engine (Cutlass Supreme)  
 Horsepower at rpm . . . 310 at 4800  
 Torque at rpm (lb.-ft.) . . 390 at 3200  
 Compression ratio (to 1) . . . 10.25  
 Carburetor barrels (no.) . . . . . 4  
 Fuel recommended . . . . . Premium

V-8 Engine (Cutlass, F-85)  
 Horsepower at rpm . . . 250 at 4400  
 Torque at rpm (lb.-ft.) . . 355 at 2600

Compression ratio (to 1) . . . . . 9.00  
 Carburetor barrels (no.) . . . . . 2  
 Fuel recommended . . . . . Regular

L-6 Engine (Cutlass, F-85)  
 Horsepower at rpm . . . 155 at 4200  
 Torque at rpm (lb.-ft.) . . 240 at 2000  
 Compression ratio (to 1) . . . . . 8.50  
 Carburetor barrels (no.) . . . . . 1  
 Fuel recommended . . . . . Regular

## Chassis (4-4-2)

BODY MOUNTINGS, Vibra-Tuned Rubber

BRAKES, Self-Adjusting Duo-Servo . . . 9.5" drum dia.; 157.8-sq.-in. lining area

FRAME, Torque-Beam

STEERING SYSTEM, Low-Friction . . . 40.0-foot turning diameter

SUSPENSION, 4-4-2 . . . heavy-duty front and rear springs, shock absorbers, and stabilizer bars, and rear-suspension lower control arms

TIRES, G70 x 14" Single-White-Stripe Wide-Oval Fiberglass-Belted

WHEELS, 14 x 7" JJ Heavy-Duty Welded-Steel

### CHASSIS DIMENSIONS:

Wheelbase (in.) . . . . . 112.0  
 Front tread (in.) . . . . . 59.0  
 Rear Tread (in.) . . . . . 59.0

## Chassis (Cutlass, F-85)

BODY MOUNTINGS, Vibra-Tuned Rubber

BRAKES, Self-Adjusting Duo-Servo . . . 9.5" drum dia.; 157.8-sq.-in. lining area

FRAME, Torque-Beam

STEERING SYSTEM, Low-Friction . . . 40.0-foot turning diameter (Coupes and Convertible); 41.2 (Sedans)

SUSPENSION, Deep-Coil Pivot-Poise Front and Twin-Triangle Rear . . . front stabilizer bar, direct-acting shock absorbers, full-rubber insulation

TIRES, G78 x 14" (V-8) or F78 x 14" (L-6) Blackwall Fiberglass-Belted

WHEELS, 14 x 6" JJ Welded-Steel

### CHASSIS DIMENSIONS

	Coupes	Convertible	Sedans
Wheelbase (in.) . . . . .	112.0	116.0	116.0
Front tread (in.) . . . . .	59.0	59.0	59.0
Rear tread (in.) . . . . .	59.0	59.0	59.0

4-4-2, CUTLASS, F-85

## Cutlass Supreme, Cutlass S, Cutlass

# 4-4-2, CUTLASS, F-85

## 4-4-2 • CUTLASS • F-85 STYLING EXTRAS

CONSOLE, Sports (D55) . . . For Coupes and Convertibles.

CONSOLE WITH DUAL-GATE SHIFTER, Sports (W26) . . . For Coupes, Convertibles except F-85.

MOLDINGS, Bodyguard (B84) . . . For Cutlass S and Cutlass.

MOLDINGS, Door-Edge Guard (B93).\*

MOLDINGS, Roof Drip (B80) . . . Standard on 4-4-2 Coupes, Cutlass Supreme and Cutlass Holiday models. Available on other Sedans and Coupes except F-85.

MOLDINGS, Side-Window Frame (B90) . . . Standard on 4-4-2 Sports Coupe and Cutlass Sedans. Available for other Sports Coupes.

MOLDINGS, Side-Window Sill (B85) . . . For Coupes except F-85.

PAINT STRIPES, Body-Side, and Trunk-Lid . . . Standard on 4-4-2.

PAINT STRIPES, Hood (Y73) . . . For Cutlass S.

SEAT, Bench Front (A52) . . . Standard in Cutlass S, Cutlass, and F-85. Available in 4-4-2 Coupes.

SEAT, Custom Sport Front (A65) . . . Standard in Cutlass Supreme Holiday Sedan. Available in 4-4-2 Convertible and in Cutlass Supreme Holiday Coupe and Convertible.

SEATS, Strato Bucket (A51) . . . Standard in 4-4-2, and in Cutlass Supreme Holiday Coupe and Convertible. Available in Cutlass S.

STEERING WHEEL, Custom-Sport (N34) \*

STEERING WHEEL, Deluxe (N30) . . . Standard in all models except F-85. Available in F-85.

STEERING WHEEL, Deluxe Instant-Horn (N42) \*

WHEELS, Simulated-Wire (N95) \*

WHEELS, Super Stock I (P05) \*

WHEELS, Super Stock II (N66) . . . For all except Station Wagons.

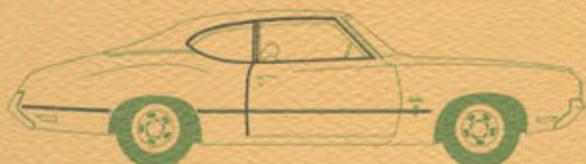
WHEEL DISCS, Chrome (P01) \*

WHEEL DISCS, Deluxe (P02) \*

WHEEL TRIM RINGS, Chrome (P06)

\*Available for all models.

### MOLDINGS



B80 B84 B85 B90 B93



B80 B84 B93

### PAINT STRIPES



Std. 4-4-2

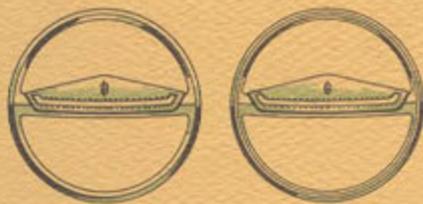


Std. 4-4-2



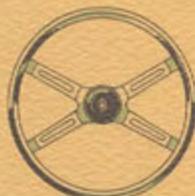
Y73

### STEERING WHEELS



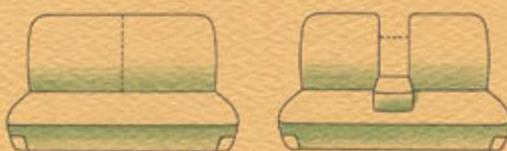
N30

N42



N34

### FRONT SEATS



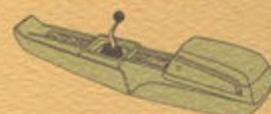
A52

A65



A51

### SPORTS CONSOLES



D55  
(Man. Trans.)



D55  
(Auto. Trans.)



W26  
(Auto. Trans.)

### WHEELS AND WHEEL DISCS



# 4-4-2 Identification



## 4-4-2 Sports Coupe (Model 4477)

### Front

- Two-Plateau Hood with Chrome Louvers
- Twin Black Horizontal-Bar Grilles
- Bold 4-4-2 Block Numerals on Hood Extension between Grilles
- Dual-Headlamp Arrangement
- Massive Bumper with Signal Lamps inset in Ends
- Center License-Plate Location

### Sides

- Bold 4-4-2 Block Numerals on Front Fenders
- Full-Length Body-Side and Fender Paint Stripes
- Chrome Wheel-Opening Moldings
- Rectangular Front and Rear Side-Marker Lamps
- Single-White-Stripe Wide-Oval Fiberglass-Belted Tires

### Rear

- Rocket Emblem, 4-4-2 Block Numerals, and Paint Stripes on Trunk Lid
- Dual Vertical Taillamps in Bumper Ends
- Backup Lamps at Sides of Bumper License-Plate Recess
- Exposed Dual Exhaust Outlets below Massive Bumper

### SPECIFICATIONS

Engine . . .	365-hp 4-4-2 Rocket 455 V-8	
Transmission . . .	3-Speed Heavy-Duty	
Axle . . . . .	3.08-to-1 Hypoid	
Wheelbase (in.) . . . . .	112.0	
Overall length (in.) . . . . .	203.2	
Overall width (in.) . . . . .	76.2	
Loaded height (in.) . . . . .	52.8	
Shipping weight (lb.) . . . . .	3667	
Curb weight (lb.) . . . . .	3771	
Room:	Front	Rear
Headroom (in.) . . . . .	37.9	36.3
Legroom (in.) . . . . .	41.4	34.1
Hiproom (in.) . . . . .	59.7	58.3
Shoulderroom (in.) . . . . .	58.3	57.1
Kneeroom (in.) . . . . .	24.3	
Trunk capacity (cu. ft.) . . . . .	17.0	

### SPECIAL FEATURES OF THIS MODEL

**Exterior:** BODY, Fastback Pillar Coupe • MOLDINGS, Chrome Roof Drip, Side-Window Frame, Windshield, and Rear-Window • **Interior:** ARMRESTS, Deluxe Front and Rear . . . bright accent moldings and backplates • ASHTRAYS, Rear-Armrest • FLOOR CARPETING, Nylon-Blend Loop-Pile • LAMP, Central Dome • SEATS, Strato Bucket . . . bright moldings • SEAT CUSHIONS, Foam-Padded • UPHOLSTERY, All-Moroccan or Moroccan- and Fame-Pattern Cloth . . . patterned-Moroccan headlining

## 4-4-2 Holiday Coupe (Model 4487)



### SPECIAL FEATURES OF THIS MODEL

**Exterior:** BODY, Fastback Hardtop Coupe • **MOLDINGS,** Chrome Roof Drip, Windshield, and Rear-Window • **Interior:** ARMRESTS, Deluxe Front and Rear . . . bright accent moldings with backplates on doors • **ASHTRAYS,** Rear-Armrest • **FLOOR CARPETING,** Nylon-Blend Loop-Pile • **LAMP,** Central Dome • **SEATS,** Strato Bucket . . . bright moldings • **SEAT CUSHIONS,** Foam-Padded • **UPHOLSTERY,** All-Moroccan or Moroccan and Fame-Pattern Cloth . . . patterned-Moroccan headlining • **VENTILATION,** Flo-Thru Body . . . with full-view side windows

### SPECIFICATIONS

Engine . . .	.365-hp 4-4-2 Rocket 455 V-8	
Transmission . . .	3-Speed Heavy-Duty	
Axle . . . . .	3.08-to-1 Hypoid	
Wheelbase (in.) . . . . .	112.0	
Overall length (in.) . . . . .	203.2	
Overall width (in.) . . . . .	76.2	
Loaded height (in.) . . . . .	52.8	
Shipping weight (lb.) . . . . .	3713	
Curb weight (lb.) . . . . .	3817	
Room:	Front	Rear
Headroom (in.) . . . . .	38.2	36.4
Legroom (in.) . . . . .	41.5	34.1
Hiproom (in.) . . . . .	59.7	58.3
Shoulderroom (in.) . . . . .	58.3	57.1
Kneeroom (in.) . . . . .	24.3	
Trunk capacity (cu. ft.) . . . . .	17.0	

## 4-4-2 Convertible (Model 4467)



### SPECIAL FEATURES OF THIS MODEL

**Exterior:** BODY, Convertible . . . power top with vinyl-coated fabric, glass window, Moroccan boot • **MOLDING,** Chrome Windshield • **Interior:** ARMRESTS, Deluxe Front and Rear . . . bright accent moldings, with backplates on doors • **ASHTRAYS,** Rear-Armrest • **FLOOR CARPETING,** Nylon-Blend Loop-Pile • **LAMPS,** Instrument-Panel Courtesy, and Map Lamps, and Rear-Armrest Courtesy • **SEATS,** Strato Bucket . . . bright moldings • **SEAT CUSHIONS,** Foam-Padded • **UPHOLSTERY,** All-Moroccan • **VENTILATION,** Flo-Thru Body . . . with full-view side windows

### SPECIFICATIONS

Engine . . .	.365-hp 4-4-2 Rocket 455 V-8	
Transmission . . .	3-Speed Heavy-Duty	
Axle . . . . .	3.08-to-1 Hypoid	
Wheelbase (in.) . . . . .	112.0	
Overall length (in.) . . . . .	203.2	
Overall width (in.) . . . . .	76.2	
Loaded height (in.) . . . . .	52.8	
Shipping weight (lb.) . . . . .	3740	
Curb weight (lb.) . . . . .	3844	
Room:	Front	Rear
Headroom (in.) . . . . .	38.6	37.0
Legroom (in.) . . . . .	41.5	33.3
Hiproom (in.) . . . . .	59.7	50.7
Shoulderroom (in.) . . . . .	58.3	56.6
Kneeroom (in.) . . . . .	24.0	

# AMA Specifications—Passenger Car

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

MANUFACTURER <b>OLDSMOBILE</b>		CAR NAME <b>4-4-2</b>	
MAILING ADDRESS <b>LANSING, MICHIGAN 48921</b>		MODEL YEAR <b>1970</b>	ISSUED <b>7-1-69</b>
			REVISED (●) <b>8-1-69</b>

**NOTES:**

- The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
- UNLESS OTHERWISE INDICATED:
  - Specifications apply to standard models without optional equipment. Significant deviations are noted.
  - Nominal design dimensions are used throughout these specifications.

CREDIT - OLDSMOBILE HISTORY CENTER

000025249

## TABLE OF CONTENTS

Car & Body Dimensions . . . . . 1,2	Drive Units . . . . . 14	Suspensions . . . . . 21
Engine - Mechanical . . . . . 4	Brakes . . . . . 18, 19	Weights . . . . . 24
Electrical . . . . . 12	Steering . . . . . 20	Index . . . . . 27

920 TOWNSEND ST.  
LANSING, MI 48921

### BODY - TYPES AND STYLE NAMES -

Body type, style names; use manufacturer's code for series & body style.

	4-4-2
	<u>34400</u>
67 Convertible	X
77 Club Coupe	X
87 Hardtop Coupe	X

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)  
4-4-2

### CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:  
 4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	SPORTS COUPE	HOLIDAY COUPE
<b>WIDTH</b>			
Track - Front	W101	59.0	
Track - Rear	W102	59.0	
Maximum overall car width	W103	76.2	
Body width at No. 2 pillar	W117	73.8	
<b>LENGTH</b>			
Body "O" to front of dash	L 30	0.0	
Wheelbase	L 101	112.0	
Overall car length	L 103	203.2	
Overhang - front	L 104	41.8	
Overhang - rear	L 105	49.6	
Body upper structure length	L 123	102.8	
Body "O" line to $\text{C}$ of rear wheel	L 127	95.4	
Body "O" line to w/s cowl point	L 130	N.A.	
<b>HEIGHT</b>			
Passenger Distribution (front & rear)		2 - 3	
Trunk/Cargo load (lbs.)		200	
Overall height	H101	52.8	
Cowl height	H114	37.7	
Deck height	H138	N.A.	
Rocker panel - front	To ground	H112	8.4
	From front wheel $\text{C}$		N.A.
Rocker panel - rear	To ground	H111	7.9
	From rear wheel $\text{C}$		N.A.
Windshield slope angle	H122	53.1	
<b>GROUND CLEARANCE</b>			
Bumper to ground - front	H102	11.8	
Bumper to ground - rear	H104	12.8	
Angle of approach	H106	21.0	
Angle of departure	H107	17.5	
Ramp breakover angle	H147	12.5	
Min. running clearance (Specify)	H156	4.5	

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (#) 8-1-69  
4-4-2

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
 (All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.		
-------	--------------	--	--

## FRONT COMPARTMENT

Effective head room	H61		37.7
Max. eff. leg room - accelerator	L34		41.4
H Point to Heel point	H30	7.9	7.9
H Point travel	L17	4.8	4.8
Shoulder room	W 3		58.0
Hip room	W 5		59.6
Upper body opening to ground	H50	N.A.	N.A.

## REAR COMPARTMENT

H Point couple distance	L50	30.7	30.7
Effective head room	H63		36.3
Min. effective leg room	L51		31.9
H Point to Heel point	H31	9.9	9.9
Min. knee room	L48	1.5	1.5
Rear Compartment room	L 3		24.0
Shoulder room	W 4		56.6
Hip room	W 6	58.3	53.0
Upper body opening to ground	H51	N.A.	N.A.

## LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	17.0	17.0
Liftover height	H195	N.A.	N.A.
Position of spare tire storage		Flat on Right Side of Trunk	
Method of holding lid open		Counterbalanced - Torsion Bar	

## STATION WAGON - THIRD SEAT

Shoulder Room	W85	N.A.	
Hip room	W86		
Effective leg room	L86		
Effective head room	H86		
Seat facing direction			

## STATION WAGON - CARGO SPACE

Cargo length at floor - front seat	L202	N.A.	
Cargo length at belt - front seat	L204		
Cargo width - Wheelhouse	W201		
Opening width at belt	W204		
Maximum cargo height	H201		
Rear opening height	H202		
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2		

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)8-1-69  
4-4-2

## POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		
34467 34477 34487	455	4 Bbl.	10.5	365 @ 5000	500 @ 3200	3-Speed Manual 4-Speed Manual (Close Ratio) Turbo HMT - 400	3.08,3.23,3.42 3.42 3.23,2.56,2.78,3.08,3.42
34477 34487	455 (W30)	4 Bbl.	10.5	370 @ 5200	500 @ 3600	4-Speed Manual (Close Ratio) Turbo HMT - 400	3.42,3.91 3.42,3.91,3.23-A/C

Limited slip axle mandatory with 3.42, 3.91 and 4.33 ratios.  
 A/C not available with 3.42, 3.91 or 4.33 ratios.  
 4.33, 4.66 and 5.00 ratios available as dealer option.

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)

MODEL 4-4-2

### ENGINE - GENERAL

Type, no. cyls., valve arr.	90° OHV V-8
Bore and stroke (nominal)	4.125 X 4.250
Piston displacement, cu. in.	455
Bore spacing (€ to €)	4.625
No. system	L. Bank 1-3-5-7
(front to rear)	R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Compres. ratio (nominal)	10.5:1
Cylinder Head Material	Cast Iron
Cylinder Block Material	Cast Iron
Cyl. Sleeve-Wet,dry,none	None
Number of mtg. points	Front Two
	Rear One
Engine installation angle	4° 37'
Taxable horsepower $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$	54.45
Publishing max. bhp* @ eng. RPM	365 @ 5000
Publishing max. torque* (lb. ft. @ RPM)	500 @ 3200
Recommended fuel regular - premium	Premium

### ENGINE - PISTONS

Material	Aluminum Alloy		
Description and finish	Autothermic, Cam Grind, Tin Plate, Steel Strut		
Weight (piston only) oz.	24.057		
Clearance (limits)	Top land	.033 - .044	
	Skirt	Top	--
		Bottom	.00075 - .00125
Ring groove depth	No. 1 ring	.2125 - .2195	
	No. 2 ring	.2125 - .2195	
	No. 3 ring	.2025 - .2095	
	No. 4 ring	--	

\* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (8-1-69)

MODEL 4-4-2 (W30)

### ENGINE—GENERAL

Type, no. cyls., valve arr.	
Bore and stroke (nominal)	
Piston displacement, cu. in.	
Bore spacing (C to C)	
No. system	L. Bank
(front to rear)	R. Bank
Firing order	
Compres. ratio (nominal)	10.5:1
Cylinder Head Material	
Cylinder Block Material	
Cyl. Sleeve-Wet, dry, none	
Number of	Front
mtg. points	Rear
Engine installation angle	
Taxable horsepower	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$ 2.5
Publishing max. bhp* @ eng. RPM	370 @ 5200
Publishing max. torque* (lb. ft. @ RPM)	500 @ 3600
Recommended fuel regular - premium	

### ENGINE—PISTONS

Material	
Description and finish	
Weight (piston only) oz.	
Clearance (limits)	Top land
	Skirt
	Top
	Bottom
Ring groove depth	No. 1 ring
	No. 2 ring
	No. 3 ring
	No. 4 ring

\* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

Otherwise same as Standard 4-4-2 (Page 4).

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED 8-1-69

MODEL 4-4-2

### ENGINE - RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, coating, etc.	Upper Ring - Cast Iron with Crowned and Molybdenum Plated O.D. Lower Ring - Cast Iron with Taper O.D. Face
	Width	.0770 - .0780
	Gap	.013 - .023
Oil	Description - material, coating, etc.	Two Rails - Spring Steel, Black Oxide Finish with Chrome Plated O.D.
	Width	Rails: .0235 - .0252    Spacer: .1375 - .1335
	Gap	Rails: .015 - .055    Spacer: .285 ± .041
Expanders	Spacer - Cold Rolled Spacer Steel	

### ENGINE - PISTON PINS

Material	SAE #1019 or #1016		
Length	2.980		
Diameter	.9803 - .9807		
Type	Locked in rod, in piston, floating, etc.	Pressed in Rod	
	Bush- ing	In rod or piston	None
		Material	None
Clearance	In piston	.0003 - .0005 Loose	
	In rod	.0008 - .0018 Press	
Direction & amount offset in piston	.060 to R.H. of Cylinder Bore Centerline		

### ENGINE - CONNECTING RODS

Material	SAE #1140 Steel	
Weight (oz.)	30.33	
Length (center to center)	6.733 - 6.737	
Bearing	Material & Type	Moraine 400 (GM 3889 Aluminum) Steel Backed
	Overall length	.821 - .831
	Clearance (limits)	.0004 - .0033
	End play	.002 - .013 2 Rods per Crankpin

## AMA Specifications—Passenger Car

 MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)8-1-69

 MODEL 4-4-2

## ENGINE - CRANKSHAFT

Material	Nodular Iron (Standard) AISI #1049 Modified (Option)		
Vibration damper type	Tuned Rubber		
End thrust taken by bearing (No.)	#3		
Crankshaft end play	.004 - .008		
Main bearing	Material & type	Moraine 400 (GM 3889-M Aluminum) Steel Backed	
	Clearance	1-2-3-4: .0005 - .0021 5: .0020 - .0034	
	Journal dia. and bearing overall length	No. 1	3.00 X .975
		No. 2	3.00 X .975
		No. 3	3.00 X 1.194
		No. 4	3.00 X .975
		No. 5	3.00 X 1.624
		No. 6	--
No. 7		--	
Dir. & amt. cyl. offset	RH Bank .469 to Rear and LH Bank .469 Forward of Engine		
Crankpin journal diameter	2.4988 - 2.4998		

## ENGINE - CAMSHAFT

Location	Center		
Material	GM 6016M Alloy Cast Iron		
Bearings	Material	Moraine 100 - Steel Backed Babbit GM 4167M	
	Number	5	
Type of Drive	Gear or chain	Chain	
	Crankshaft gear or sprocket material	Sintered Iron or Hardened Steel	
	Camshaft gear or sprocket material	Die Cast Aluminum with Nylon Teeth	
	Timing chain	No. of links	48
		Width	.875 & .844
Pitch		.500	

## ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)	Standard	
Valve rotator, type (intake, exhaust)	Helical Spring and Flat Washer Type	
Rocker ratio	1.6:1	
Operating tappet clearance (indicate hot or cold)	Intake	None
	Exhaust	None

(Continued)

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*) 8-1-69

MODEL \_\_\_\_\_ SM (STANDARD) \_\_\_\_\_ 4-4-2 (EXC. W30) \_\_\_\_\_ AT (OPTION) \_\_\_\_\_

## ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	30°	24°
		Closes (°ABC)	84°	81°
		Duration - deg.	294°	285°
	Exhaust	Opens (°BBC)	78°	74°
		Closes (°ATC)	38°	33°
		Duration - deg.	296°	287°
Valve opening overlap		68°	57°	
Intake	Material		SAE #1041 & 1047 Steel	
	Overall length		4.703	
	Actual overall head dia.		2.067 - 2.077	
	Angle of seat & face		30°	
	Seat insert material		None	
	Stem diameter		.3432 - .3425	
	Stem to guide clearance		.0010 - .0027	
	Lift (± zero lash)		.472	.472
	Outer spring press. & length	Valve closed (lb. @ in.)	76 - 84 @ 1.670	
		Valve open (lb. @ in.)	180 - 194 @ 1.270	
	Inner spring press. & length	Valve closed (lb. @ in.)	Damper	
		Valve open (lb. @ in.)	--	
	Exhaust	Material		21-2 Steel
Overall length		4.695		
Actual overall head dia.		1.629 - 1.619		
Angle of seat & face		45° Seat 46° Face		
Seat insert material		None		
Stem diameter		.3427 - .3420		
Stem to guide clearance		.0015 - .0032		
Lift (± zero lash)		.472	.472	
Outer spring press. & length		Valve closed (lb. @ in.)	76 - 84 @ 1.670	
		Valve open (lb. @ in.)	180 - 194 @ 1.270	
Inner spring press. & length		Valve closed (lb. @ in.)	Damper	
		Valve open (lb. @ in.)	--	

## ENGINE - LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Pressure
	Cylinder walls	Pressure

(Continued)

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED 8-1-69MODEL \_\_\_\_\_ 4-4-2  
(W30)

## ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	56°
		Closes (°ABC)	92°
		Duration - deg.	328°
	Exhaust	Opens (°BBC)	96°
		Closes (°ATC)	52°
		Duration - deg.	328°
Valve opening overlap		108°	
Intake	Material		
	Overall length		
	Actual overall head dia.		
	Angle of seat & face		
	Seat insert material		
	Stem diameter		
	Stem to guide clearance		
	Lift (@ zero lash)		.475
	Outer spring press. & length	Valve closed (lb. @ in.)	115 - 125 @ 1.670
		Valve open (lb. @ in.)	290 - 314 @ 1.170
	Inner spring press. & length	Valve closed (lb. @ in.)	Damper
		Valve open (lb. @ in.)	----
	Exhaust	Material	
Overall length			
Actual overall head dia.			
Angle of seat & face			
Seat insert material			
Stem diameter			
Stem to guide clearance			
Lift (@ zero lash)		.475	
Outer spring press. & length		Valve closed (lb. @ in.)	115 - 125 @ 1.670 (SMT)
		Valve open (lb. @ in.)	290 - 314 @ 1.170 (SMT)
Inner spring press. & length		Valve closed (lb. @ in.)	Damper
		Valve open (lb. @ in.)	----

## ENGINE – LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	
	Connecting rods	
	Piston pins	
	Camshaft bearings	
	Tappets	
	Timing gear or chain	
	Cylinder walls	

(Continued)

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)MODEL 4-4-2

## ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	35 - 50 @ 1500 RPM
Oil press. sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part., other)	Full Flow
Filter replacement (element, complete)	Complete
Capacity of c/case, less filter-refill (qt.)	4
Oil grade recommended (SAE viscosity and temperature range)	Above 20° F - 20W, 10W30, 10W40, 20W40 0° - 60° F - 10W, 5W30, 10W30, 10W40 Below 20° F - 5W, 5W20, 5W30
Engine Service Reqmt. (MM, MS, etc.)	MS

## ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual	
Muffler No. & type (reverse flow, straight thru, separate resonator)	Two Straight Thru Mufflers	
Exhaust pipe dia. (O.D., wall thick.)	Branch	None
	Main	2.25 X .076
Tail pipe dia. (O.D. & wall thickness)	2.00 X .060	

## ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Positive Crankcase Ventilation
	Optional	None
Control Unit	Make and model	AC Ventilation Valve CV - 679C
	Location	Intake Manifold (SMT)      Valve Cover (AMT)
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum
	Control method (variable orifice, fixed orifice, other)	Variable Orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake Manifold and Air Cleaner
	Air inlet (breather cap, carburetor air cleaner, other)	Ventilation Filter Located in One Valve Cover (AMT) Ventilation Filters in Both Valve Covers (SMT)
	Flame arrestor (screen, check valve, other)	Check in Ventilation Valve

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)

MODEL \_\_\_\_\_ 4-4-2 (W30)

**ENGINE – LUBRICATION SYSTEM (cont.)**

Oil pump type	
Normal oil pressure (lb. engine rpm)	
Oil press. sending unit (elect. or mech.)	
Type oil intake (floating, stationary)	
Oil filter system (full flow, part., other)	
Filter replacement (element, complete)	
Capacity of c / case, less filter-refill (qt.)	
Oil grade recommended (SAE viscosity and temperature range)	
Engine Service Reqmt. (MM, MS, etc.)	

**ENGINE – EXHAUST SYSTEM**

Type (single, single with cross-over, dual, other)	
Muffler No. & type (reverse flow, straight thru, separate resonator)	
Exhaust pipe dia. (O.D., wall thick.)	Branch Main
Tail pipe dia. (O.D. & wall thickness)	

**ENGINE – CRANKCASE VENTILATION SYSTEM**

Type (ventilates to atmos., induction system, other)	Standard Optional
Control Unit	Make and model
	Location <b>Intake Manifold</b>
	Energy source (manifold vacuum, carburetor air stream, other)
Complete system	Control method (variable orifice, fixed orifice, other)
	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)
	Air inlet (breather cap, carburetor air cleaner, other) <b>Ventilation Filters in Both Valve Covers</b>
	Flame arrestor (screen, check valve, other)

Otherwise same as Standard 4-4-2 (Page 8).

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)

MODEL 4-4-2

## ENGINE - EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Engine Modification *	
Air Injection Pump	Type	None	
	Displacement		
	Drive ratio		
	Drive type		
	Relief valve (type)		
	Filter (describe)		
Air Injection System	Air distribution (head, manifold, etc.)	None	
	Point of entry		
	Injection tube I.D.		
	Check valve type		
	Backfire protection (type)		
Carburetor	Make	Standard	
	Model		
	Barrel size		
	Idle speed	Drive Neutral	
	Idle A/F mixture		
Distributor	Aux. Adv. Systems (type)	None	
	Make	Standard	
	Model		
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	
		Intermed. points deg. @ rpm	
		Max. deg. @ rpm	
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	
Intermed. points deg. @ in. Hg			
Max. deg. @ in.			
Vacuum Source		Ported	
Timing - Crank degrees @ rpm		Standard	
Cooling System		None	
Exhaust System		None	

\* Exhaust emission is controlled by means of pre-heated air to carburetor, carburetor adjustment, engine timing, and idle setting.

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (e) 8-1-69

MODEL 4-4-2

## ENGINE—FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.		Carburetor	
Fuel Tank	Refill capacity (U.S. gals.)	20	
	Filler location	Behind License Plate Rear Bumper	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	R.F. on Block	
	Pressure range	6 psi	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Paper and Saran Type	
	Locations	Carburetor and Fuel Tank	
	Choke type	Automatic	
	Intake manifold heat control (exhaust or water)	Exhaust	
Carburetor	Air cleaner type	Standard	Oil Wetted Paper Element (Temperature Controlled)
		Optional	Same as Above Except with External Cold Air Intake (W30)
	Idle speed (spec. neutral or drive)	Manual	700 RPM in Neutral
		Automatic	650 RPM in Drive
	Idle A/F mix.	N.A.	

## CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
34467 (Std.) 34477 34487	400	Fully Synch. 3-Speed Std. 4-Speed Opt. Turbo HMT - 400 Optional	Rochester	4MC	1	Prim. 1 3/8 Sec. 2 1/4

# AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED <sup>(\*)</sup>8-1-69

MODEL 4-4-2

## ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure			
Radiator cap relief valve pressure		15 psi			
Circulation thermostat	Type (choke, bypass)	By Pass			
	Starts to open at (°F)	195°			
Water pump	Type (centrifugal, other)	Centrifugal			
	GPM @ 1000 pump rpm	22			
	Number of pumps	1			
	Drive (V-belt, other)	V-Belt			
	Bearing type	Ball			
By-pass recirculation type (inter., ext.)		External			
Radiator core type (cellular, tube and fin, other)		Tube and Center			
Cooling system capacity	With heater (qt.)	16.2			
	Without heater (qt.)	15.5			
	Opt. equipment-specify (qt.)	17.2 - A/C			
Water jackets full length of cyl. (yes, no)		Yes			
Water all around cylinder (yes, no)		Yes			
Radiator hose	Lower	Number and type (molded, straight)	One Molded		
		Inside diameter	1.75		
	Upper	Number and type (molded, straight)	One Molded		
		Inside diameter	1.50		
	By-pass	Number and type (molded, straight)	One Molded		
		Inside diameter	.765 - .703		
Fan	Number of blades & spacing	4 @ 76° (Std.)	6 Spaced (A/C) (W30)		
	Diameter	19.50 (Std.)	19:00 (A/C) (W30)		
	Ratio-fan to crankshaft rev.	.85:1 (Std.)	1.22:1 (A/C) (W30)		
	Fan cutout type	Clutch (A/C Only)			
	Bearing type	Ball			
*Drive belts (indicate belt used by letter)	Fan				
	Generator or alternator	C (Std.)	E (A/C)	F (A/C & P/S)	G (H/D)
	Water Pump				
	Power Steering	A (Std.)	B (A/C or H/D)		
	<del>Power Windows</del> A/C COMPRESSOR	D			
All Belts Drive Fan and Water Pump					

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°	36°	36°				
Nominal length (SAE)	44.11	45.19	51.50	60.60	57.23	57.56	52.26				
Width	.380	.380	.380	.380	.380	.380	.380				

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED \_\_\_\_\_MODEL \_\_\_\_\_ 4-4-2

## ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco Remy - 1980088
	Voltage Rtg. & Total Plates		12V-66
	SAE Designation & Amp. Hr. Rtg.		25TA - 74 Amp Hr.
	Location		Engine Compartment - Front LH Side
	Terminal grounded		Negative
Generator or Alternator	Make		Delco Remy
	Model		1100880
	Type and rating		37 Amps
	Output at engine idle (neutral)		20 Amps
	Ratio—Gen. to Cr/s rev.		
Regulator	Make		Built in Alternator Eng Frame
	Model		
	Type		Solid State
	Cutout relay	Closing voltage @ generator rpm	None
		Reverse current to open	None
	Regu- lated	Voltage	N.A.
		Current	N.A.
	Voltage test conditions	Temperature	N.A.
		Load	N.A.
		Other	Tested with Alternator

## ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco Remy
	Model		1108389
	Rotation (drive end view)		Clockwise
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		* 3-Speed and 4-Speed - Place gear shift lever in neutral. Turbo HMT - Leave shift lever in park.
Motor Drive	Engagement type		Solenoid Overrunning Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	Manual
	Auto.		166
	Flywheel tooth face width	Manual	.438
Auto.		.438	

\* Initial Start - Depress gas pedal to floor to set choke. Turn ignition to start and release as soon as engine starts.

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)  
 MODEL 4-4-2

## ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Standard	
	Transistorized – Std., Opt., N.A.		Dealer Installed Package	
	Other (specify)			
Coil	Make		Delco Remy	
	Model		1115216	
	Amps	Engine stopped	4.0	
		Engine idling	2.0	
Distributor **	Make		Delco Remy	
	Model		1111982	
	Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	0° - 0° @ 717 RPM	
		Intermediate points deg. @ rpm	0° - 4° @ RPM 10° - 14° @ 2000 RPM	
		Max. deg. @ rpm	18° - 22° @ 3600 RPM	
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	0° - 3° @ 9 In. Hg.	
		Intermediate points, deg. @ in. Hg.	0° - 5.8° @ 10 In. Hg. 11.6° - 18.2° @ 15 In. Hg. 19° - 25.5° @ 18.5 In. Hg.	
		Max. deg. in. Hg.	22.5° - 25.5° @ 20.5 In. Hg.	
		Breaker gap (in.)	.016	
	Cam angle (deg.)	29° - 31°		
Breaker arm tension (oz.)	19 - 23			
Timing	Crankshaft deg. @ rpm	12° BTC @ 1100 RPM (SMT) 12° BTC @ 1100 RPM (AMT)		
	Mark location	Balancer Assembly		
Spark Plug	Make		AC	
	Model		AC R44S	
	Thread (mm)		14 MM	
	Tightening torque (lb. ft.)		30	
	Gap		.030	
Cable	Conductor type		Resistance	
	Insulation type		Neophrene	
	Spark plug protector		Nypolon	

## ELECTRICAL – SUPPRESSION

Locations & type \*

\* Resistance core spark plug leads and coil leads, by pass condensers at alternator and at regulator and coil on radio equipped cars.

\*\* Centrifugal advance and vacuum advance figures are for standard (non-transistorized) ignition only.

# AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*) 8-1-69  
4-4-2 (W30)

MODEL \_\_\_\_\_ (A.T.) \_\_\_\_\_ (S.M.T.)

### ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.			
	Transistorized – Std., Opt., N.A.			
	Other (specify)			
Coil	Make			
	Model			
	Amps	Engine stopped		
		Engine idling		
Distributor	Make			
	Model	1111979	1111977	
	Cent'gal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	0° - 0° @ 550 RPM	0° - 0° @ 754 RPM
		Intermediate points deg. @ rpm	0° - 7° @ 750 RPM	0° - 4° @ 955 RPM
			13.9° - 20.7° @ 1150 RPM	16° - 20° @ 1800 RPM
			17.3° - 21.3° @ 1250 RPM	
	Max. deg. @ rpm	28° - 32° @ 3000 RPM	20° - 24° @ 4000 RPM	
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	0° - 3.5° @ 12 In. Hg.	0° - 3.4° @ 12 In. Hg.
		Intermediate points, deg. @ in. Hg.	0° - 6.3° @ 13 In. Hg.	0° - 6.3° @ 13 In. Hg.
			5.8° - 11.8° @ 15 In. Hg.	5.8° - 11.8° @ 15 In. Hg.
11.5° - 17.5° @ 17.2 In. Hg.			11.5° - 17.5° @ 17.2 In. Hg.	
Max. deg. in. Hg.	14.5° - 20.2° @ 18.5 In. Hg.	14.5° - 20.2° @ 18.5 In. Hg.		
Breaker gap (in.)				
Cam angle (deg.)				
Breaker arm tension (oz.)		19 - 23		
Timing	Crankshaft deg. @ rpm		*	
	Mark location			
Spark Plug	Make			
	Model			
	Thread (mm)			
	Tightening torque (lb. ft.)			
	Gap			
Cable	Conductor type			
	Insulation type			
	Spark plug protector			

### ELECTRICAL – SUPPRESSION

Locations & type \_\_\_\_\_

Otherwise same as Standard 4-4-2 (Page 13).

- \* 10° @ 850 RPM (Super Premium Fuel)
- 8° @ 850 RPM (Premium Fuel)

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (q)

MODEL \_\_\_\_\_ 4-4-2

### ELECTRICAL - INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	AC
	Trip odometer (yes,no)	No
Charge indicator - type		Indicator Lamp
Temperature indicator - type		Indicator Lamp
Oil pressure indicator - type		Indicator Lamp
Fuel indicator - type		Gauge
Other		Indicator Lamp
Wind-shield wiper	Type - Standard	2-Speed Electric
	Type - Optional	--
Wind-shield washer	Type - Standard	Push Button
	Type - Optional	--
Horn	Type	Vibrating
	Number used	2
	Amp draw (each)	5.2 - 5.7

### DRIVE UNITS - CLUTCH (Manual Transmission)

Make & type		Chevrolet - Single Plate
Type pressure plate springs		Belleville
Total spring load (lb.)		2450 - 2750 Assemblies
No. of clutch driven discs		One
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	11.0 X 6.5
	Total eff. area (sq.in.)	123.7
	Thickness	One .135 and One .150
	Engagement cushioning method	Flat Springs
Release bearing	Type & method of lubrication	Ball Permanent
Torsional damping	Methods: springs, friction material	Coil Spring - Steel Friction

# AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (e)

MODEL 4-4-2

## DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	N.A.
Automatic (std. or opt.)	Optional

## DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3	
Transmission ratios	In first	2.62	
	In second	1.58	
	In third	1.00	
	In fourth	--	
	In reverse	2.41	
Synchronous meshing, specify gears		1-2-3	
Shift lever location		Floor	
Lubricant	Capacity (pt.)	5.00	
	Type recommended	Multi-purpose	
	SAE viscosity number	Summer	80 or 90
		Winter	80 or 90
		Extreme cold	80 or 90

## DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)		N.A.	
Manual lockout (yes, no)			
Downshift accelerator control (yes, no)			
Minimum cut-in speed			
Gear ratio			
Lubricant	Capacity (pt.) (Overdrive only)		
	Separate filler (yes, no)		
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
Extreme cold			

# AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (e)

MODEL 4-4-2

## DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	N.A.
Automatic (std. or opt.)	Optional

## DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3	
Transmission ratios	In first	2.62	
	In second	1.58	
	In third	1.00	
	In fourth	--	
	In reverse	2.41	
Synchronous meshing, specify gears		1-2-3	
Shift lever location		Floor	
Lubricant	Capacity (pt.)	5.00	
	Type recommended	Multi-purpose	
	SAE viscosity number	Summer	80 or 90
		Winter	80 or 90
		Extreme cold	80 or 90

## DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)		N.A.	
Manual lockout (yes, no)			
Downshift accelerator control (yes, no)			
Minimum cut-in speed			
Gear ratio			
Lubricant	Capacity (pt.) (Overdrive only)		
	Separate filler (yes, no)		
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
Extreme cold			

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)

MODEL \_\_\_\_\_ 4-4-2

## DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None	
	Lubrication (fitting, prepack)	None	
Slip Yoke	Type	Involute Spline	
	Number of teeth	27 Manual	32 Automatic
	Spline O.D.	1.1760	1.395
Universal joints	Make and Mfg. No.	Saginaw Steering Gear	
	Number used	Two	
	Type (ball and trunnion, cross)	Cross	
	Rear attach. (u-bolt, clamp, etc.)	U-Bolt	
	Bearing	Type (plain, anti-friction)	Anti-Friction
Lubric. (fitting, prepack)		Pre-Pack	
Drive taken through (torque tube or arms, springs)		Arms	
Torque taken through (torque tube or arms, springs)		Arms	

## DRIVE UNITS – AXLE

Type (front, rear)		Rear	
Description		Salisbury Live Hypoid - Semi-Floating	
Limited Slip differential, type		Multiple Plate Clutch - "S" Shaped Pre-Load Spring	
Drive Pinion Offset		1.75	
No. of differential pinions		2	
Pinion adjustment (shim, other)		Shim	
Pinion bearing adj. (shim, other)		Collapsing Spacer	
Wheel bearing type		Ball	
Capacity (pt.)		3.69	
Type recommended		GM 4744M (Standard), Mobile XRP 464-BD-M (L.S.)	
Lubricant	SAE viscosity number	Summer	80 - 90
		Winter	80 - 90
		Extreme cold	80 - 90

## AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.08	3.23	3.42	3.91
No. of teeth	Pinion	13	13	12	11
	Ring gear	40	42	41	43
Ring Gear O.D.		8.560	8.555	8.552	8.543

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)MODEL 4-4-2

## DRIVE UNITS — WHEELS

Type & material		Welded Steel
Rim (size & flange type)	Std.	14 X 7JJ
	Opt.	None
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5 X 7/16

MODEL \_\_\_\_\_

## DRIVE UNITS — TIRES

Standard	Size, ply rating, & ply		G70 X 14 2 Ply 4 Ply Rate (White Stripe)
	Type (bias, radial, etc.)		Bias
	Full rated Inflation Press.	Front	24
		Rear	24
	Rev./Mile at <u>45</u> MPH		782
Optional	Size, ply rating, & ply		G70 X 14 - 2 Ply 4 Ply Rate (White Letters) 8.25 X 14 - 4 Ply (Nylon) 4 Ply Rate

## BRAKES — PARKING

Type of control		Suspended Pedal
Location of control		Left Drivers Compartment
Operates on		Rear Brake
If separate from service brakes	Type (internal or external)	Not Separate
	Drum diameter	
	Lining size (length x width x thickness)	

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (a)

MODEL \_\_\_\_\_ STANDARD ON 4-4-2 (OPTIONAL ON W30 & W31)

## BRAKES—SERVICE

Type (drum) or (disc & no. of pistons)		Drum		
Self adjusting (std., opt., N.A.)		Standard		
Special Valving	Type (proportion, delay, metering, other)			
Power brake make & type (remote, int., etc.)	Std.			
	Opt.			
Effective area (sq. in.) *		141.8		
Gross lining area (sq. in.) **		149.8		
Swept area (sq. in.) ***		268.8		
Front to Rear Effectiveness Relationship		64.4% Front		
Drum	Diameter (nominal)	Front	9.5	
		Rear	9.5	
	Type and material	Centrifugal Cast in Steel Shell -Front	Composite Rear-Optional	
Rotor	Outer working diameter			
	Inner working diameter			
	Working width			
	Material & type (vented/solid)			
Wheel cylinder bore	Front		1 1/8"	
	Rear		7/8"	
Master Cylinder	Bore		1"	
	displacement distribution	Front %	59%	
		Rear %	41%	
Pedal arc ratio		6.23 to 1 Standard		
Line pressure at 100 lb. pedal load		720		
Shoe Clearance	Front		.015	
	Rear		.015	
Brake lining	Bonded or riveted		Riveted	
	Front Wheel	Material	Bendix H3140G Pri. H3179 Sec.	
		Size (length x width x thickness)	Prim. or out-board	7.63 X 2.50 X .190
			Second. or in-board	9.91 X 2.50 X .270
		Segments per shoe		1
	Rear Wheel	Material	Bendix H3140G Pri. H3179 Sec.	
		Size (length x width x thickness)	Prim. or out-board	7.63 X 2.00 X .190
			Second. or in-board	9.91 X 2.00 X .270
		Segments per shoe		1

\* Excludes rivet holes, grooves, chamfers, etc. \*\* Includes rivet holes, grooves, chamfers, etc.

\*\*\* Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED <sup>(a)</sup>

MODEL

4-4-2 W30 & W31  
MANUAL DISC (STANDARD EQUIPMENT)

## BRAKES—SERVICE

		FRONT		REAR	
Type (drum) or (disc & no. of pistons)		Disc		Drum	
Self adjusting (std., opt., N.A.)		Standard			
Special Valving	Type (proportion, delay, metering, other)	Metering			
Power brake make & type (remote, int., etc.)	Std. Opt.	Delco Integral			
Effective area (sq. in.) *		37.88		62.1	
Gross lining area (sq. in.) **		41.8		70.1	
Swept area (sq. in.) ***		226.2		119.4	
Front to Rear Effectiveness Relationship		67.9% Front			
Drum	Diameter (nominal)	Front			
		Rear		9.5	
	Type and material	Composite Rear - Optional			
Rotor	Outer working diameter	10.88			
	Inner working diameter	7.12			
	Working width	1.035			
	Material & type (vented/solid)	Vented Cast Iron			
Wheel cylinder bore	Front	2 15/16"			
	Rear	7/8"			
Master Cylinder	Bore	1 1/8"			
	displacement distribution	Front %	73		
		Rear %	27		
Pedal arc ratio		6.23 to 1			
Line pressure at 100 lb. pedal load		560			
Shoe Clearance	Front	.000			
	Rear	.015			
Brake lining	Bonded or riveted		Riveted		
	Front Wheel	Material	Bendix 7131C		
		Size (length x width x thickness)	Prim. or out-board	5.4 X 2.37 X .465	
			Second. or in-board	Same	
		Segments per shoe		1	
	Rear Wheel	Material	Bendix H3140G Pri. H3179 Sec.		
		Size (length x width x thickness)	Prim. or out-board	7.63 X 2.00 X .190	
			Second. or in-board	9.91 X 2.00 X .270	
Segments per shoe		1			

\* Excludes rivet holes, grooves, chamfers, etc. \*\* Includes rivet holes, grooves, chamfers, etc.

\*\*\* Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (e)

MODEL 4-4-2

### STEERING

Manual (std., opt., NA)		Standard		
Power (std., opt., NA)		Optional		
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt-A-Way		
	(std., opt., NA)	Optional		
Wheel diameter	Manual	15.50		
	Power	15.50		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	43.3	
		Curb to curb (l. & r.)	40.0	
	Inside rear	Wall to wall (l. & r.)	23.4	
		Curb to curb (l. & r.)	24.2	
Manual	Gear	Type	Ball Nut	
		Make	Saginaw Steering Gear	
		Ratios	Gear	24.0:1
	Overall		28.3:1	
	No. wheel turns (stop to stop)	5.56 Lock to Lock		
Power	Type (coaxial, linkage, etc.)	Integral Gear		
	Make	Saginaw Steering Gear		
	Gear	Type	Ball Nut	
		Ratios	Gear	17.5:1
			Overall	20.7:1
	Pump driven by	Belt from Crank		
No. wheel turns (stop to stop)	3 Lock to Lock			
Linkage	Type	Parallelogram		
	Location (front or rear of wheels, other)	Front		
	Drag link (trans. or longit.)	Transverse		
	Tie rods (one or two)	Two		
Steering Axis	Inclination at camber (deg.)		9° at +1° Camber	
	Bearings (type)	Upper	Ball Joint	
		Lower	Ball Joint	
		Thrust	Ball Joint	
	Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		1 1/4° Neg. ± 3/4°
Camber (deg.)		1/8° Pos. ± 3/8°		
Toe-in (outside track inches)		1/8 to 1/4		
Steering spindle & joint type			Ball Joint	
Wheel Spindle	Diameter	Inner bearing	1.2497 - 1.2492	
		Outer bearing	.7496 - .7491	
	Thread size		3/4 - 20	
	Bearing type		Tapered Roller	

## AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)MODEL 4-4-2

## SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	None	
Provision for brake dip control	Counter Dive of Suspension	
Provision for acc. squat control	Rear Suspension Upper Control Arm	
Special provisions for car jacking	None	
Shock absorber front & rear	Type	Direct Acting
	Make	Delco
	Piston dia.	1.00
Other special features		

## SUSPENSION – FRONT

Type and description		Independent Coil Spring
Spring	Type	Coil
	Material	SAE 9260
	Size (coil design height & I.D.; bar length x dia.)	11.3 Design Height 3.60 I.D. 114.37 Long X .639 Dia.
	Spring rate (lb. per in.)	435
	Rate at wheel (lb. per in.)	154
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	SAE 1070 .937 Dia.

## SUSPENSION – REAR

Type and description		Link Coil Spring
Drive and torque taken through		Arms
Spring	Type	Coil
	Material	SAE 9260
	Size (length x width, coil design height & I.D.; bar length & dia.)	7.62 Design Height - 5.50 I.D. 85.8 Long X .560 Dia.
	Spring rate (lb. per in.)	160.0
	Rate at wheel (lb. per in.)	150.0
	Mounting insulation type	Rubber
	If leaf	No. of leaves Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	Linkless
	Material	SAE 1070 .875 Dia.
Track bar type		None

# AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (\*)

MODEL 4-4-2

**FRAME**

Type and description (Separate frame, unitized frame, partially - unitized frame)	<b>Channel Section Side Rail 4 Cross Bar</b>
---	--

**BODY – MISCELLANEOUS INFORMATION**

Drs. hinged (front, rr.)	Front doors	Front
	Rear doors	Front
Type of finish (lacquer, enamel, other)		Lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle Ident. No. location		Instrument Panel (L.H.)
Engine No. location		Left Front Engine Block
Theft protection - type		Key Type Starting - Steering Column Lock
Vent window control method (crank, friction pivot)	Front	None
	Rear	None
Seat cushion type	Front	Zig Zag
	Rear	Zig Zag
	3rd seat	--
Seat back type	Front	Zig Zag
	Rear	Zig Zag
	3rd seat	--
Windshield glass type (i.e., single curved - laminated plate)		Single Curved - Laminated Plate
Side glass type (i.e., curved - tempered plate)		Curved - Tempered Plate
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Compound Curved - Tempered Plate
Windshield glass exposed surface area	1288.9	1290.4      --      1290.4
Side glass exposed surface area	1890.4	1597.0      2014.0
Backlight glass exposed surface area	655.7	1481.4      1481.4
Total glass exposed surface area	3835.0	4368.8      4785.8
	-A-	-B-      -C-

- A - Convertible - 67
- B - Pillar Coupe - 77
- C - Hardtop Coupe - 87

# AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (e)

MODEL \_\_\_\_\_ 4-4-2

## CONVENIENCE EQUIPMENT

(Indicate whether standard, optional or NA on each series)

Power windows	Side windows	Optional
	Vent windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability)		4-Way - Optional 6-Way - Optional L.H. Bucket Only
Reclining front seat back (R-L or both)		N.A.
Front seat head restrainer (R-L or both)		Standard
Radios (specify type as well as availability)		Deluxe, AM-FM Stereo, Tape Optional
Rear seat speaker		Optional
Power antenna		N.A.
Clock		Optional
Air conditioner (specify type and availability)		Optional
Speed warning device		Optional
Speed control device		Optional
Ignition lock lamp		N.A.
Dome lamp		Standard
Glove compartment lamp		Optional
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		Optional
Map lamp		Optional
Auto. trans. quad. lamp		Optional
Cornering light lamp		N.A.
DUAL BRAKE WARNING		Standard
HAZARD WARNING		Standard
ANTI-THEFT BUZZER		Standard
ANTI-THEFT LOCK		Standard

## LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	N.A.
		Lowest	
	Tail	Highest	
		Lowest	
Sidemarker	Front		
	Rear		
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside *	
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

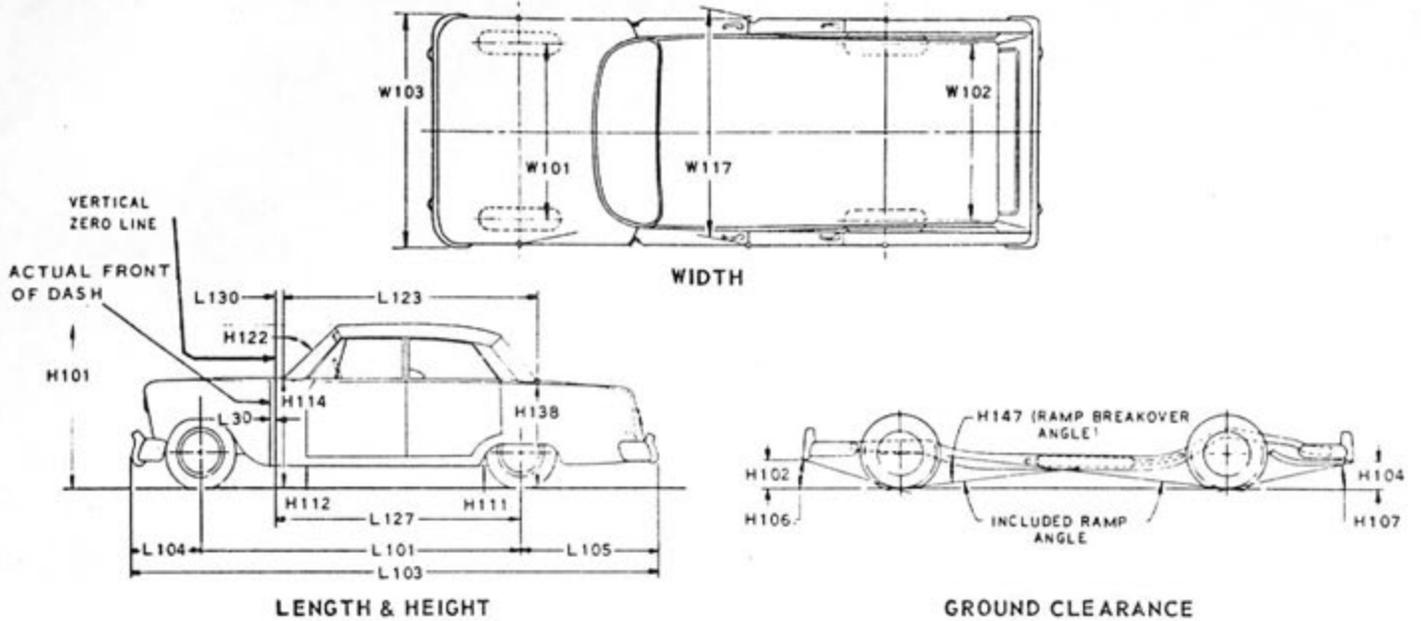
\* If single headlamps are used enter here.



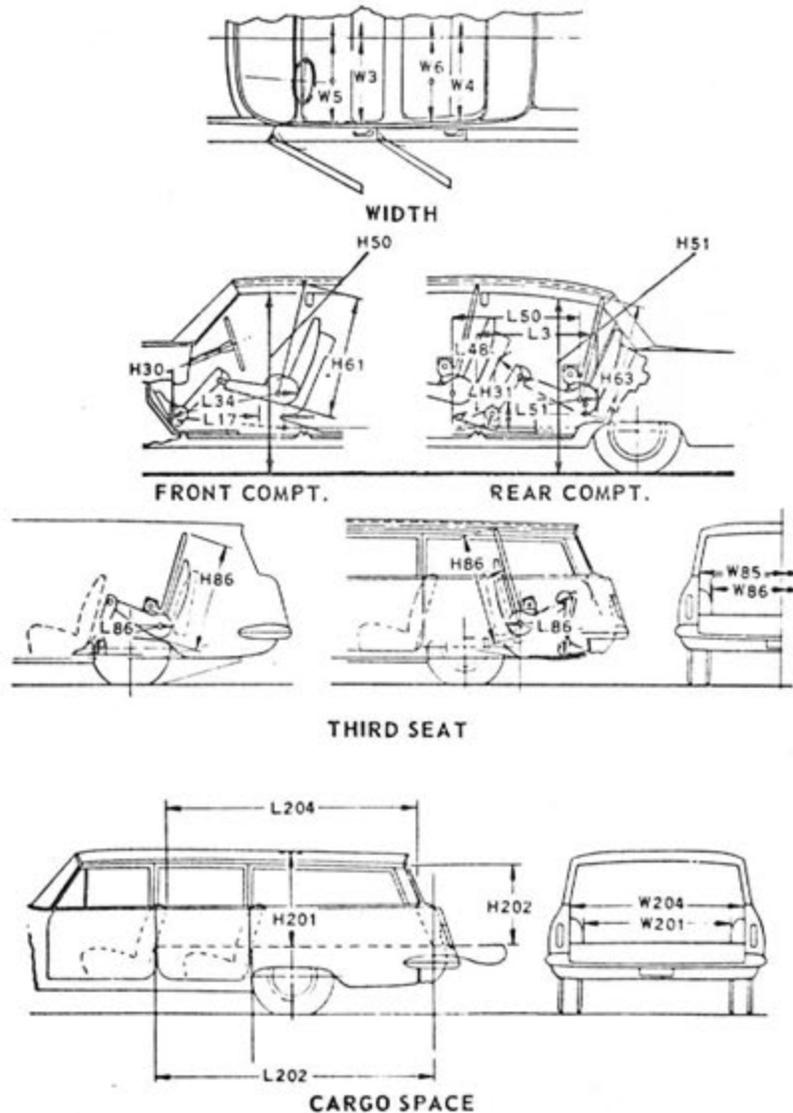
## CAR AND BODY DIMENSIONS

### KEY SHEET

#### EXTERIOR CAR AND BODY DIMENSIONS



#### INTERIOR CAR AND BODY DIMENSIONS



## CAR AND BODY DIMENSIONS

## KEY SHEET

## DIMENSION DEFINITIONS

## EXTERIOR WIDTH DIMENSIONS

- W101 WHEEL TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD - REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

## EXTERIOR LENGTH DIMENSIONS

- L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG - FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG - REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

## EXTERIOR HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.
- H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
- H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

## GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND - FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND - REAR. Minimum dimension, includes bumper guards.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

## FRONT COMPARTMENT DIMENSIONS

- H 61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point or Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
- H 30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

## FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
- W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.
- H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

## REAR COMPARTMENT DIMENSIONS

- L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
- H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L 48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
- L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
- W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
- W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
- H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

## LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

## STATION WAGON - THIRD SEAT DIMENSIONS

- W 85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W 86 HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
- L 86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H 86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

## STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheelhouseings at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and liftgates fully open.
- V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

## INDEX

SUBJECT	PAGE NO.	SUBJECT	PAGE NO.
Automatic Transmission.....	16	Kingpin (Steering Axis).....	20
Axis, Steering.....	20	Lamp height and spacing.....	23
Axle, Rear.....	17	Legroom.....	2
Battery.....	12	Lengths - Car and Body.....	1
Bearings, Engine.....	5, 6, 7	Lifters, valve.....	6
Belts - Fan, Generator, Water Pump.....	11	Linings - Clutch, Brake.....	14, 19
Brakes - Parking, Service Power.....	18, 19	Lubrication.....	7, 8, 14, 15, 16, 17
Comber.....	20	Luggage Compartment.....	2
Camshaft.....	6	Motor, Starting.....	12
Capacities		Muffler.....	8
Cooling System.....	11	Overdrive.....	15
Fuel Tank.....	10	Piston Pins & Rings.....	4, 5
Lubricants		Pistons.....	4, 5
Engine Crankcase.....	8	Power Brakes.....	19
Transmission and Overdrive.....	15, 16	Power Steering.....	20
Rear Axle.....	17	Power Teams.....	3
Car and Body Dimensions		Propeller Shaft, Universal Joints.....	16, 17
Width.....	1	Pumps - Oil, Fuel.....	8, 10
Length.....	1	Water.....	11
Height.....	1	Radiator, Hoses.....	11
Ground Clearance.....	1	Ratios - Axle.....	3, 17
Front Compartment.....	2	Compression.....	3, 4
Rear Compartment.....	2	Steering.....	20
Luggage Compartment.....	2	Transmission.....	15, 16
Station Wagon - Third Seat.....	2	Rear Axle.....	3, 17
Station Wagon - Cargo Space.....	2	Regulator - Generator.....	12
Carburetor.....	3, 9, 10	Rims.....	18
Caster.....	20	Rings, Piston.....	5
Choke, Automatic.....	10	Rods - Connecting.....	5
Clutch - Pedal Operated.....	14	Shock Absorbers, Front & Rear.....	21
Coil, Ignition.....	13	Spark Plugs.....	13
Connecting Rods.....	5	Speedometer.....	14
Convenience Equipment.....	23	Springs - Front & Rear Suspension.....	21
Cooling System.....	11	Valve, Engine.....	6
Crankcase Ventilation System.....	8	Stabilizer (Sway Bar) - Front & Rear.....	21
Crankshaft.....	6	Starting System.....	12
Cylinders and Cylinder Head.....	4	Steering.....	20
Dimension Definitions		Supply System.....	12
Key Sheet.....	25	Suppression - Ignition, Radio.....	13
Exterior & Interior.....	26	Suspension - Front & Rear.....	21
Distributor - Ignition.....	13	Tail Pipe.....	8
Electrical System.....	12, 13, 14	Thermostat, Cooling.....	11
Engine		Timing, Engine & Valve.....	6, 7, 13
Bore, Stroke, Displacement, Type.....	4	Tires.....	18
Compression Ratio.....	4	Toe in.....	20
Firing Order, Cylinder Numbering.....	4	Torque Converter.....	16
General Information, H.P. & Torque.....	4	Torque - Engine, Rated.....	3, 4
Lubrication.....	7, 8	Transmission - Types.....	3, 10, 15, 16
Power Teams.....	3	Automatic.....	3, 10, 15, 16
Exhaust Emission Control.....	9	Manual & Overdrive.....	3, 10, 15
Exhaust System.....	8	Ratios.....	15, 16
Equipment Availability.....	22	Track.....	1
Fan, Cooling.....	11	Trunk Luggage Capacity.....	2
Filters - Engine Oil, Fuel System.....	8, 10	Turning Diameter.....	20
Frame.....	22	Unitized Construction.....	22
Front Suspension.....	21	Universal Joints, Propeller Shaft.....	16, 17
Fuel, Fuel Pump, Fuel System.....	4, 10	Valves - Intake & Exhaust.....	6, 7
Fuel Injection.....	10	Vibration Damper.....	6
Generator and Regulator.....	12	Voltage Regulator.....	12
Glass.....	22	Water Pump.....	11
Height (Lamps).....	14	Weights.....	24
Headroom - Body.....	2	Wheel Alignment.....	20
Heights - Car and Body.....	1	Wheelbase.....	1
Horns.....	14	Wheels & Tires.....	18
Horsepower - Brake.....	3, 4	Wheel Spindle.....	20
Ignition System.....	13	Widths - Car and Body.....	1
Inflation - Tires.....	18	Windshield.....	22
Instruments.....	14	Windshield Wiper.....	14



# Owner's Manual

Important Operating, Safety and Maintenance Instructions

4-4-2 • CUTLASS SUPREME • CUTLASS  
F-85 • STATION WAGONS

CREDIT - OLDSMOBILE  
HISTORY CENTER

000025222

820 TOWNSEND ST.  
LANSING, MI 48921

# 1970 OLDSMOBILE

## THE MARK OF EXCELLENCE . . . . .

### ***This is the General Motors mark of excellence that appears on all Oldsmobile motor vehicles.***



We use it in the same spirit with which craftsmen, through the centuries, have used a personal mark to identify the products of their skills: We are proud of the things we make, and we want our customers to be able to identify them easily and to know that we stand behind them.

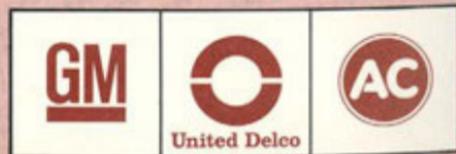
Whenever you see this mark of excellence, you can be certain that it represents GM design and engineering . . . and that it has been built with care and dedication you have come to expect from Oldsmobile.

Your new 1970 Oldsmobile meets or exceeds all applicable U. S. Federal Motor Vehicle Safety Standards. Effectiveness of these safety features can best be continued through regular vehicle inspection and maintenance.

OLDSMOBILE DIVISION  
General Motors Corporation  
Lansing, Michigan 48921

For maximum performance and economy keep your GM car all GM.  
Specify General Motors Parts identified by one of these trade-marks:

© General Motors Corporation 1969



# IMPORTANT INFORMATION FOR THE OLDSMOBILE OWNER

This manual has been prepared to acquaint you with the operation and maintenance of your 1970 Oldsmobile. We urge you to read it carefully and follow the recommendations contained to help assure the most enjoyable and trouble-free operation of your vehicle. Listed below are subjects that deserve your special attention.

**AIR POLLUTION CONTROL** — A special colored supplement describes the operation and maintenance of the air pollution control systems on your car.

See Insert "B"

**ALPHABETICAL INDEX** — A complete index will be found in the back of the manual to assist you in locating specific information on your vehicle.

See Page 58

**CHANGE OF ADDRESS OR VEHICLE OWNERSHIP** — U.S. Federal Law requires the manufacturer to contact vehicle owners of record in the event a product safety defect is discovered. Your Oldsmobile Dealer should be notified if you change your address or purchased this car used.

See Your Dealer

**SPECIAL ASSISTANCE** — Your Oldsmobile Dealer knows your vehicle best and is interested in your complete satisfaction. Return to him for Guardian Maintenance Service and any other assistance you may require. To assist Dealers in handling your needs, Oldsmobile maintains a number of Zone Offices throughout the country. Should you have a problem that cannot be handled through normal channels, follow the procedure contained in the section entitled "Owner Relations".

See Page 60

**MAINTAINING SAFETY AND DEPENDABILITY** — A special colored supplement contains recommendations to help you maintain the safety and dependability originally built into your Oldsmobile.

See Insert "A"

**PROTECTING YOUR INVESTMENT** — Only you can assure that the investment in your Oldsmobile is adequately protected. Regular and proper service as outlined in the manual will help you get the utmost in satisfaction and extended service from your car.

See Page 37

**WARRANTY** — When purchased new, your Oldsmobile is covered by the Oldsmobile New Vehicle Warranty and the Policy on Oldsmobile Owner Service. Complete details will be found in the Oldsmobile New Vehicle Warranty and Owner Protection Plan folder which was given to you by your Oldsmobile Dealer at the time of new car delivery.

See Your  
Warranty Folder

# Safety on the Road depends on...

1. *You, the Driver*
2. *The Condition of Your Vehicle*
3. *Traffic and Highway Conditions*

... BE SURE YOU UNDERSTAND ALL THREE!

**REMEMBER:** Proper operation, periodic maintenance and safety inspections help provide . . .

- *Economical Operation of Your Vehicle*
- *Safety for You and Your Passengers*
- *Dependable Transportation*

**Observe All Traffic Laws—**

**Make Safe Driving a Habit**

- **WHEN PARKED** — Don't invite theft by leaving your car unlocked or leaving valuable articles in view. Never leave children unattended in the automobile where they could accidentally release the brake or activate other controls.

- **IN TRAFFIC** — Study and understand surrounding traffic conditions before slowing, passing, turning or lane-changing, so you won't run into the unexpected. Maintain proper spacing, and check rearward conditions too.

When the light turns green, make sure cross-wise traffic has stopped before starting up.

Anticipate your next move and signal your intention at a reasonable time to the drivers around you.

- **DRIVING AT NIGHT** — Remember to remove sun glasses at dusk and at other times when the lighting is poor.

Be especially alert for pedestrians and unlighted vehicles at dusk and after dark.

Use "low beam" when approaching or following other cars, and look slightly to the right of oncoming lights.

Even properly aimed headlamps may cause annoying glare if the car is heavily loaded in the trunk. Distribute the load in your car as evenly as possible to avoid blinding other drivers.

Turn on your headlamps at early dusk, and during bad weather, to help other drivers see your car.

- **INCLEMENT WEATHER** – Proceed cautiously in inclement weather, until you are sure it is safe to drive faster. Be prepared for sudden crosswinds when crossing bridges or viaducts.

Remember that some wet pavement is as treacherous as ice, and bridges and viaducts can be slipperier.

- **BAD ROADS** – Remember, dust obscures vehicles and obstacles as completely as fog; drive cautiously in dust-clouded areas.

Avoid striking sharp rocks and pot-holes to avoid unnecessary (and often hidden) tire damage.

Remember to clean off headlamps, tail lamps and side markers after driving on wet, dusty, or muddy roads.

- **WINTER DRIVING** – Drive extra cautiously when winter comes, until you adjust to winter driving conditions.

Remember side streets may be slippery for days after main streets have been cleared, and drive accordingly.

In heavy snow or on icy roads, drive more cautiously, allow more room to stop, and use the brakes conservatively, and reduce the possibility of skids by using chains or special tires.

To get moving in snow, press very lightly on the accelerator pedal, increase pressure very slowly, and don't spin the wheels. If the wheels spin, they will turn the snow to slick ice or dig your wheels in deeper. Sand, rock salt, Liquid Tire Chain, or a piece of carpeting under the drive wheels can help if you do not get bogged down.

Remember that wet ice – at about 32°F – is extremely slippery; drive very cautiously.

- **EXTENDED TRIPS** – Before and regularly during the trip, check tire pressure, windshield washer and other fluid levels, and have necessary maintenance performed on a regular basis.

When driving along unfamiliar routes, it is safer to drive during daylight hours, and it is wise to obtain up-to-date maps and route information beforehand.

Remember that a high percentage of rural accidents involve head-on collisions and drive accordingly.

Budget your driving over the length of your trip. Share the driving or take rest breaks.

When driving alone for a long period, counteract monotony by changing radio stations, changing heater settings, opening windows, etc. If fatigue sets in, pull off the road for a short nap, or at least a rest.

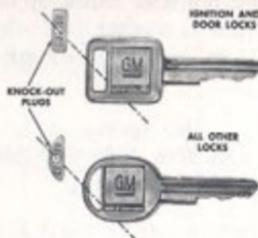
- **ALWAYS** be prepared for stopped or slow moving vehicles ahead.

Maintain an adequate distance between your car and the car ahead, to reduce the chances of rear-end collisions.

If you smell, or otherwise suspect that exhaust fumes are entering the passenger compartment, drive only with all windows and vents fully open, and then only until the cause can be determined and corrected.

# OPERATING INSTRUCTIONS

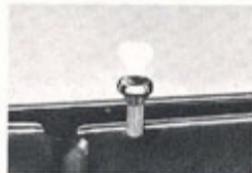
## A Word About Your Keys



Two separate keys are provided for your car. Each key has a different cross section so that it can be inserted only in certain locks. The key with the square head and the letter "J" stamped on it operates the ignition switch, door locks and the tailgate on station wagons. The key with the oval head and the letter "K" is used for the luggage compartment and glove box door docks, as well as the center console lock on cars so equipped. These compartments should be locked and the key removed from the car should it be necessary to leave the ignition key with an attendant.

The code number of each key is stamped on a "knock-out" plug in the key head. Your Oldsmobile Dealer removed the key

plugs and placed them with the spare set of keys in the special envelope that was given to you at time of delivery. Record the numbers on the key envelope and discard the key plugs. Keep the key envelope in a safe place such as your wallet, NOT IN THE CAR, so that you can have duplicate keys made in the event the original keys are lost.



## Door Locks

Front and rear side doors can be locked from the inside by depressing the passenger guard door lock buttons located on the upper door panel. All doors can be locked from the outside by first depressing the door lock button and depressing the outside door handle plunger while closing the door. Once closed, release the plunger and the door is locked.

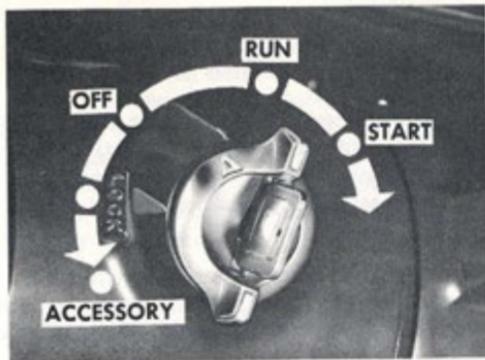
The front doors can also be locked by using the square headed key.

All models have, as a standard safety feature, overriding door locks. When the doors are locked, the door latch mechanism is inoperative, preventing inadvertent opening of the door by movement of the inside handle.

**CAUTION:** Always lock the doors when driving for greater security in the event of an accident and for security against unauthorized entries. Avoid pushing on the door glass when opening or closing the doors — instead, use the handles.

## Anti-Theft Steering Column Lock

The anti-theft lock, located on the right side of the steering column, has five positions. Starting from the full counterclockwise position (the position nearest you) they are, accessory, lock, off, on and start. To provide added theft protection for your car, the system is designed to prevent normal operation of the steering and shift controls when the ignition switch is in the "lock" position. The transmission selector lever must be in "park" on automatic transmission models, or reverse or manual transmission models, before the key can be



turned to the "lock" position. The ignition switch "accessory" position permits operation of electrical accessories when the engine is not running. It can be engaged only by pushing in on the ignition key and turning the key toward you (counterclockwise). The "off" position is provided so that the ignition can be turned off without locking the steering column or transmission selector lever. The key can be withdrawn only when the switch is in the "lock" position.

**NOTE:** The Anti-Theft Steering Column Lock is not intended as a substitute for the parking brake. Always set your parking brake when leaving the vehicle unattended to help assure that the vehicle will not move.

**CAUTION:** In a parking situation, always let go of the steering wheel **BEFORE** turning the ignition key to **LOCK** position. When parking on a hill with wheels turned in to the curb, be sure the car has come to a complete stop before turning the key to **LOCK** position. Turning the wheels to left or right after the car stops "winds up" the steering system, which can result in a "spring back" of the steering wheel when the lock is released. As a further precaution, never reach through the steering wheel to operate controls, or for any other reason.

When leaving your car unattended:

- Set the parking brake
- Place automatic transmission selector in Park (Reverse for manual transmission)
- Turn key to **LOCK** position
- Remove the key
- Lock all doors

The ignition key warning buzzer warns you if you have left the key in the anti-theft lock when the driver's door is opened. Heed its warning—remove the key and lock the doors. The visible ve-

hicle identification number of the instrument panel aids in apprehension of thieves and recovery of stolen vehicles. Help it work; make sure it is not obscured by gloves, maps or other objects.

## Starting the Engine

**CAUTION:** When starting the engine with the car parked, always have the brake applied—use the foot brake on automatic transmission cars, and the parking brake on manual transmission cars.

**NOTE:** To prolong battery life, turn off switches for headlamps, radio, heater fan and other unnecessary electrical loads prior to starting the engine in colder weather. Leave accessories off until the engine is running smoothly.

**Automatic Transmission Start Procedure**—Place transmission selector lever in "P" or "N" ("P" preferred). A starter safety switch incorporated in automatic transmission cars is designed to prevent starter operation while the transmission selector lever is in any drive position. If it is necessary to re-start the engine with the car moving, place the selector lever in "N".

**Manual Transmission Start Procedure** — Hold clutch pedal to the floor throughout the starting procedure. A starter safety switch incorporated in manual transmission cars is designed to prevent starter operation when the clutch is not fully depressed. Select the proper gear range before releasing the clutch pedal.

**Cold Engine** — Fully depress accelerator pedal and slowly release. With foot off the accelerator pedal crank the engine by turning the key to the Start position and release when engine starts. If engine starts, but fails to run, repeat above procedure. When the engine is running smoothly, the idle speed may be reduced by slightly depressing the accelerator pedal and then slowly releasing.

**Warm Engine** — Depress accelerator pedal about halfway and hold while cranking the engine.

**Extremely Cold Weather (Below 0°F) or After Car Has Been Standing Idle Several Days** — Fully depress and release accelerator pedal two or three times before cranking the engine. With foot off the accelerator pedal crank the engine by turning the key to the Start position and release when engine starts.

**If Engine Fails to Start** — Using the appropriate procedure above, first, fully depress and release the accelerator pedal several times. Then remove foot from the accelerator and crank the engine.

If the engine still does not start, fully depress the accelerator pedal and hold to the floor while cranking the engine. If the engine has been flooded with gasoline it may start to run but not have enough power to keep running. In that case, continue cranking with the accelerator fully depressed until the engine clears itself of excess gasoline and runs smoothly.

### **Exhaust Gas Warning (Carbon Monoxide)**

Avoid inhaling exhaust gases because they contain carbon monoxide, which is a potentially lethal gas that by itself is colorless and odorless.

**SITTING IN A PARKED CAR WITH ENGINE RUNNING FOR AN EXTENDED PERIOD IS NOT RECOMMENDED.**

Do not run engine in confined areas such as garages any more than needed to move vehicle in or out of area. When vehicle is stopped in an unconfined area with the

engine running for any more than a short period, the following precaution should be observed:

- Adjust heating or cooling system to force outside air into car with blower set at medium or high speed and controls set in any position except "OFF" or "MAX."

The trunk lid should be closed while driving to prevent drawing exhaust gases into the car. However, if for some reason the trunk must remain open while moving, the following precautions should be observed:

- Close all windows.
- Adjust heating or cooling system to force outside air into car with blower set at high speed, and controls set in any position except "OFF" or "MAX."
- On cars equipped with outside air vents in or under instrument panel, open vents fully.

The best protection against carbon monoxide entry into the car body is a properly maintained engine exhaust system. Whenever a change is noticed in the sound of the exhaust system, when exhaust fumes can be detected inside the vehicle, or when the underside of the vehicle is damaged, have a competent mechanic inspect

the complete exhaust system and adjacent body areas for broken, damaged or mispositioned parts, deterioration, open seams or loose connections which could permit exhaust fumes to seep into the trunk or passenger compartment. In addition, inspect the exhaust system each time the vehicle is raised for lubrication or oil change. Replace or adjust as required.

### **Emergency Starting**

If your Oldsmobile is equipped with a manual 3 or 4-speed transmission, it can be started in an emergency by pushing. When being pushed to start the engine, turn ignition to "ON," depress the clutch, place the shift lever in high gear. Release the clutch when the car speed reaches 10 to 15 miles per hour. Bumpers and other parts contacted by the pushing vehicle should be protected from the damage during pushing. Never tow the car to start.

Engines in vehicles with automatic transmissions cannot be started by pushing the car. To start the car when the Energizer (battery) is discharged, use a single auxiliary battery or Energizer of the same voltage as the discharged battery with suitable jumper cables.



### **Turbo Hydra-Matic**

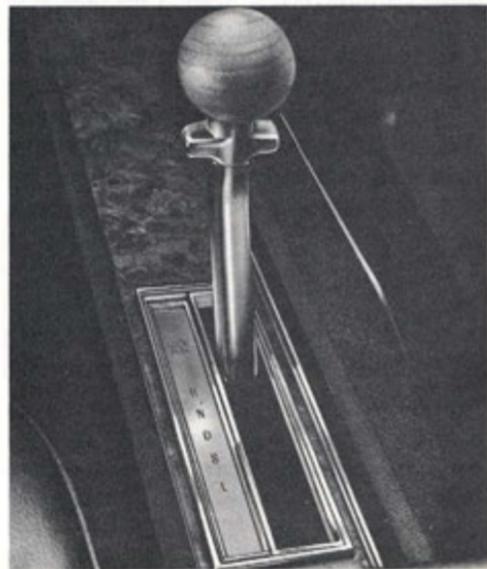
The shift indicator is located on the instrument panel just above the steering column and the selector lever on the right side of the steering column. On models with consoles, the shift indicator and selector lever are located on the console control panel. When shifting to "Park," "R," "S," or "L" position with the console shift, the ball on the shift lever must be depressed.

"Park" provides a positive transmission lock when parking or while starting the engine. Pull the selector lever towards you (column shift) or press the button on selector lever (console shift) to select or release this position. Never move the selector lever to "Park" position unless the car is completely stopped.

"R" Reverse position is for backing the car. Bring the car to a complete stop before moving the selector lever into reverse.

"N" Neutral is the out-of-gear position. It is provided for starting a stalled engine while the vehicle is in motion and for running the engine while standing with the brakes applied. Do not coast in neutral.

"D" Drive Range is the driving range for normal city and highway driving. This position permits the transmission to operate through its complete range of gear ratios and to select the proper ratio for road and load conditions.



**CAUTION:** Care should be taken to avoid sudden accelerations when both drive wheels of any vehicle are on a slippery surface. This could cause both drive wheels to spin, especially when the car is equipped with Anti-Spin differential, and allow the vehicle to slide sideways on the curved surface of a road or in a turn.

"S" Super Range position is used when super performance is needed for increased acceleration in traffic, hill climbing or "engine braking" downhill. The selector lever may be moved from "D" to "S" and vice versa, under most operating conditions. "Super" should not be used at speeds above 75 mph.

**CAUTION:** Use caution when shifting into lower gear ratios on slippery surfaces, with vehicle moving — the abrupt braking action could cause the driving wheels to skid.

"L" Low position is available for heavy pulling through mud or sand and for "engine braking" when descending steep hills. The selector lever may be moved to "L" position at any speed but the transmission will only shift automatically into

low range when car speed is under approximately 40 mph. The transmission will not upshift from low range as long as the selector lever is in "L" position.

**GOOD DRIVING PRACTICE:** Before descending a steep or long grade, down a mountain or hillside, reduce speed and shift into a lower gear. Use the brakes sparingly to prevent them from overheating and thus reducing brake effectiveness.

**Extra Power to Pass** — When a sudden burst of power is desired at speeds below 65 mph the transmission can be downshifted by depressing the accelerator completely to the floor. For passing at moderate speeds, 30-45 miles per hour, depressing the accelerator pedal only part way down will usually provide sufficient acceleration.

**Rocking the Car** — If it becomes necessary to rock the car to free it from sand, mud or snow, move the selector lever from "D" to "R" in a repeat pattern while simultaneously applying moderate pressure to the accelerator. Do not race engine. Avoid spinning wheels when trying to free the car.

## Manual Transmissions



Three-Speed

Four-Speed

### Three-Speed

All forward gears on the Oldsmobile 3-speed manual transmission are fully synchronized. This transmission is shifted through the standard "H" pattern as shown in the illustration. Before shifting into any gear, depress the clutch pedal and then shift into the desired gear. In first and reverse gears, release the clutch pedal slowly while simultaneously depressing the accelerator pedal. In second and third gears, release the clutch a little faster. This reduces the wear on the clutch and provides smoother operation.

### Four-Speed

The four-speed fully-synchronized manual transmission is optional equipment. It has four synchronized forward speeds and one non-synchronized reverse speed with a shift pattern as shown. For actual shifting procedure, follow instructions given for

three-speed manual transmission. When shifting into reverse gear, a slight additional side pressure is required on the shift lever to move it to the reverse position.

#### OPERATING CAUTIONS

1. Do not "speed shift," allow time between shifts for the transmission synchronizers to coordinate.
2. Do not use second, third or fourth gear to accelerate from a stop.
3. Always place gear selector in neutral and set the foot brake when starting the engine.
4. Never leave vehicle unattended with the engine running.
5. Always set parking brake firmly before leaving the vehicle.
6. Do not coast in Neutral.
7. Never "ride" the clutch pedal as this will cause excessive slippage with resultant wear on the clutch parts.

**GOOD DRIVING PRACTICE:** Do use second gear at slow speeds (less than 30 miles per hour) when driving in "stop and go" traffic, for improved vehicle performance during acceleration and when descending steep hills.

## New Car Operating Speeds

Driving speeds for your new Oldsmobile should be limited to a maximum of 50 miles per hour for the first 100 miles and 65 miles per hour for the next 400 miles with no heavy throttle accelerations. If most of your driving is of the around-town variety, which is considered "severe service" especially in cold weather, be sure to include some 25 to 50 mile highway trips during the break-in period and vary the car's speed.

The vehicle should be driven a minimum of 500 miles before hauling a trailer of less than 2,000 lbs. gross weight and at least 1,000 miles if the trailer exceeds 2,000 lbs. gross weight.

## Fuel Requirements

Your Oldsmobile is designed to operate efficiently on "Regular" or "Premium" grade fuels commonly sold in the United States and Canada, depending on the engine installed in your car. The table indicates the fuel grade requirements for various Oldsmobile engines.

Engine	Fuel Grade
L-6 (250 cu. in.) 1 Bbl. (Low Compression)	Regular
V-8 (350 cu. in.) 2 Bbl. (Low Compression) 4 Bbl. (High Compression)	Regular Premium
V-8 (455 cu. in.) 2 Bbl. (High Compression) 4 Bbl. (High Compression)	Premium Premium

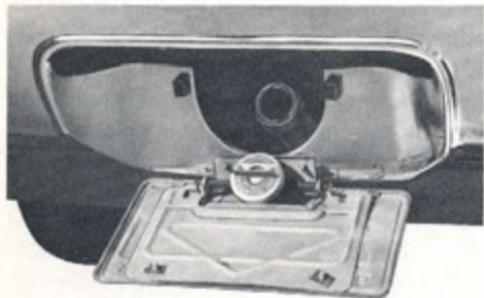
Use of a fuel which is too low in anti-knock quality will result in "spark-knock." Since the anti-knock quality of all regular grade or of all premium grade gasolines is not the same and factors such as altitude, terrain and air temperature affect operating efficiency, knocking may result even though you are using the grade of fuel recommended for your engine. If persistent knocking is encountered, it may be necessary to change to a higher grade of gasoline and, if knocking continues, consult your authorized Oldsmobile Dealer.

In any case, continuous or excessive knocking may result in engine damage and constitutes misuse of the engine for which the Oldsmobile Division is not responsible under the terms of the Manufacturer's New Vehicle Warranty.

## Fuel Filler Tube Location



Access to the fuel tank filler tube is gained through the door in the left rear fender on station wagons and behind the rear license plate on all other models. The cap



is removed by slowly turning counter-clockwise. The license plate door may be held open by placing the filler cap between the hold-open tab on the door and the hinge as shown.

**CAUTION:** Gasoline is flammable and explosive under certain conditions. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refueling. If gasoline fumes are noticed while driving, the cause should be determined and corrected without delay.

## Foreign Country Operation

If you plan to operate your Oldsmobile outside the continental limits of the United States or Canada, there is a possibility that the best fuels available are so low in anti-knock quality that excessive knocking and serious engine damage may result from their use. To minimize this possibility, write to Oldsmobile Division, Service Department, Lansing, Michigan 48921, giving:

- The compression ratio and cubic inch displacement of your engine (obtain from your dealer).
- The vehicle identification number (on plate on instrument panel ahead of the steering wheel and visible through the windshield, or from registration slip or title).
- The country or countries in which you plan to travel.

You will be furnished details of adjustment or modifications which should be made to your engine at your Oldsmobile Dealership prior to your departure. Failure to make the necessary changes to your car and subsequent operation under conditions of continuous excessive knocking constitutes misuse of the engine for which the Oldsmobile Division is not responsible under the terms of the Oldsmobile New Vehicle Warranty.

After arriving in a foreign country, determine and use the best fuels available.

## Extended Vehicle Storage

If you plan to store your Oldsmobile over an extended period of time, certain steps should be taken to give it maximum protection. It is recommended that you write Oldsmobile Division, Service Department, Lansing, Michigan 48921, for detailed instructions on how to prepare your Oldsmobile for storage.

## Towing

**With Ignition Key Available** — Normally your Oldsmobile may be towed with all four wheels on the ground for distances up to 50 miles at speeds of less than 35 mph. However, the drive wheels (rear wheels) must be raised off the ground or

the drive shaft disconnected when the transmission is not operating properly or when a speed of 35 mph or distance of 50 miles will be exceeded.

**CAUTION:** For towing, the parking brake should be released, the transmission should be in neutral and the engine ignition should be "off," but the Anti-Theft Steering Column Lock should not be in the "lock" position.

**Without the Ignition Key** – Since the Anti-Theft Steering Column Lock locks the steering and the shift controls as well as the ignition system, special provisions are necessary for towing a vehicle when the switch is in "lock" position. Normally it will be necessary to place a dolly under the rear wheels and tow the vehicle with the front end raised. Detailed towing information is available at your dealer and has been provided to tow truck operators responsible for movement of disabled or locked vehicles. Proper lifting and towing equipment is necessary to prevent damage to the vehicle during the towing operation.

**NOTE:** Do not use the locking feature of the Anti-Theft Lock to secure the front wheels for towing purposes.

**CAUTION:** Attachment should NOT be made to bumpers or bumper brackets for towing. When the vehicle is towed in a manner that requires hoisting one end off the ground, this is to be done only with a sling-type attachment hooked to main structural members of the car. Always use safety back-up chains crossed under the tow bar in a manner that will retain the vehicle if the primary attachment fails or breaks free, preferably attached to different structural members than those used for the primary attachment. When towing vehicles on the front wheels, the steering wheel should be secured to maintain a straight ahead position.

## Trailer Hauling

Since passenger cars are designed and intended to be used primarily as passenger conveyances, towing a trailer may affect handling, durability and economy. Maximum satisfaction and safety will be derived through use of proper equipment and avoiding overloads and other abusive operation.

This car can pull a trailer of 3,500 pounds maximum loaded weight with a maximum

tongue load of 350 pounds if equipped to the recommendations in Oldsmobile's 1970 Trailing Brochure.

Oldsmobile has a number of factory-installed options available to better equip cars for pulling trailers. For hauling trailers heavier than 2,000 pounds, it is recommended that an appropriate load equalizing hitch be purchased from a reliable manufacturer.

**NOTE:** Whenever a trailer hitch is removed, be certain to have any mounting holes in the underbody properly sealed to prevent possible entry of exhaust fumes, dirt or water.

Purchase of bumper and axle type hitches is not recommended. Rental installations should be made only in accord with installation and usage instructions of a reputable trailer agency. To assist in attaining proper handling of the car-trailer combination, it is important that trailer tongue loads be maintained at approximately 10% of loaded trailer weight. Tongue loads can be adjusted by proper distribution of the load in the trailer, and can be checked by weighing separately the loaded trailer and then the tongue.

Tire inflation recommendations outlined in this Owner's Manual should be fol-

lowed. When towing trailers, the allowable passenger and cargo load (as shown in the instructions for tire inflation pressures, located in the tire section) must be reduced by an amount equal to the trailer tongue load on the trailer hitch. The fluid in your automatic transmission and differential should be changed each 12,000 miles when the car is being used to pull a trailer.

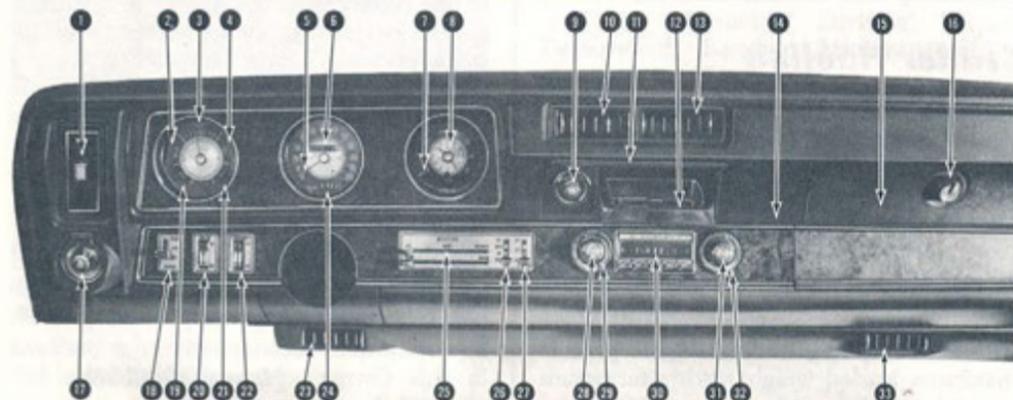
Vehicles equipped with the trailer wiring option are furnished with a special turn signal flasher. This special flasher, stored

in the glove compartment, should be installed in place of the regular turn signal flasher when hauling a trailer.

**NOTE: Do not tap into the car's hydraulic brake system to couple with a trailer hydraulic brake system.**

General information on trailer hauling, special equipment required, and optional equipment offered by Oldsmobile is available in booklet form and can be obtained by writing to Oldsmobile Division, Owner Relations Department, Lansing, Michigan 48921.

## INSTRUMENTS



1. Air Conditioning Outlet
2. Brake System Warning Indicator
3. Fuel Gauge
4. Engine Temperature (HOT) Warning Indicator
5. Speedometer
6. Odometer
7. Engine Tachometer
8. Electric Clock
9. Cigar - Cigarette Lighter
10. Left Center Air Conditioning Outlet
11. Ash Tray Door
12. Ash Tray
13. Right Center Air Conditioning Outlet
14. Courtesy Light Switch
15. Glove Box Door
16. Rotary Glove Box Lock and Latch
17. Driving and Dome Light Switch
18. Windshield Wiper and Washer Switch
19. Charging System Indicator
20. Cruise Control ON - OFF Switch
21. Oil Pressure Warning Indicator
22. Convertible Top or S/W Rear Window Switch
23. Left Lower Air Conditioning Outlet
24. Automatic Transmission Shift Indicator
25. Heater - Ventilation or Air Conditioning Controls
26. Fan Control Switch
27. Rear Window Defogger Switch
28. Radio ON - OFF and Volume Control
29. Radio Tone Control
30. Radio Dial and Station Selector Buttons
31. Radio Manual Station Selector
32. Rear Seat Speaker Fader Control
33. Right Lower Air Conditioning Outlet

The instruments, gauges and warning lights, which are conveniently grouped in the instrument clusters on the dash, are designed to give the operator important information on the car's performance.

**GOOD DRIVING PRACTICE:** A good driver familiarizes himself with the controls of any automobile **BEFORE** operating it.

## **Brake Warning Indicator**

A brake system warning light is located in the left instrument cluster. The warning light glows red to indicate to the operator that the parking brake has not been fully released. It also is designed to glow red while braking in the event of broken brake lines, major brake fluid loss, air in the brake lines or a pressure deviation between the front and the rear wheel brake lines. If this happens, it may mean that braking effectiveness is impaired. It will be possible to bring the vehicle to a stop, but depending on the severity of the malfunction, greater pedal force and pedal travel may be required and stopping distance may be increased. The cause should



be determined and any problem corrected as soon as possible. To make sure the brake warning light is not burned out, set the parking brake and start the engine. If the light does not come on, have your Oldsmobile Dealer correct the trouble as soon as possible.

**NOTE:** This warning light is not a substitute for visual checking of the fluid level in the master cylinder, which is a normal maintenance item at intervals specified on page 52.

## **Charging System Indicator**

A red light "GEN" will appear with the ignition key in the "ON" position and the

engine not running. This light lets you know the warning signal is operational. Should the light fail to come on, see your Oldsmobile Dealer. When the engine is started, the warning light should go out. In certain types of malfunction, the red light will come on with the ignition "OFF" or with the engine running. Should this happen, see your Oldsmobile Dealer. The warning light will not indicate all types of charging malfunctions. Therefore, if the starting motor turns the engine slower than normal, have the cause determined promptly.

## **Engine Oil Pressure Indicator**

The red light "OIL" will appear when the ignition is turned "ON," informing you that the indicator light is operational. When the engine starts and oil pressure builds up, the light will go out. This signal light is an oil pressure indicator — not an oil level gauge. Should the light go on while the engine is running, stop the engine immediately and have the cause determined and corrected. Driving the car with low pressure can cause extensive engine damage.

## Engine Temperature Indicator

A red signal light "HOT" will appear momentarily when starting the car to let you know that it is operating. The only other time the "HOT" light should appear is when the engine reaches an abnormally high temperature. If this happens, the engine should be stopped immediately and the cause determined and corrected.

## Fuel Gauge

This gauge shows the approximate fuel level in the tank. ONLY with the ignition in the "ON" position will the pointer indicate the fuel level. Approximately 2 gallons of fuel remain in the tank when the fuel gauge shows empty.



## Speedometer and Odometer

The speedometer indicates the forward speed of the car in miles per hour. The odometer or mileage recorder registers the accumulated mileage the car has been driven.

# CONTROLS

## Ash Trays



The instrument panel ash tray and lighter are located just above the radio dial. They are exposed by lifting the bottom edge of the ash tray door and it will swing up into the instrument panel. For easier accessibility, the ash tray may be pulled out part way. To close, simply pull downward on the lower edge of the door. To remove the tray for cleaning, open the ash tray door and slide the ash tray out to the stop, then lift up on the forward edge as you pull it towards you.

## Cigarette Lighter

Push the cigarette lighter all the way in to operate. When it is heated sufficiently to use, it will "snap" back to normal position with an audible sound. Avoid holding the lighter in by hand while it is being heated.

## Braking Systems

The service brake system is designed for braking performance under a wide range of driving conditions even when the vehicle is loaded to its full rated vehicle load.

**CAUTION:** Driving through deep water may affect brake performance. Applying brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

The service brake system is designed so that, in the event of a hydraulic fluid leak in one-half of the system, the other half still provides braking action.

**CAUTION:** "Riding the brake" by resting your foot on the brake pedal when not intending to brake can cause abnormally high brake temperatures, excessive lining wear and possible damage to the brakes.

## Automatic Brake Adjusters

All Oldsmobiles are equipped with self-adjusting brakes designed to eliminate periodic brake adjustments. On drum-type brakes the self-adjusting mechanism is actuated, as needed, whenever the car is moved in reverse and the brakes are applied. Optional front disc brakes (standard on station wagons) do not require adjustment. It is possible, however, for excessive brake pedal travel to develop if the required reverse movement with a brake application does not take place during a prolonged period of stop and go forward driving. Should this occur, the car should be driven backward and forward with the brakes applied firmly at the end of each rearward movement, until the brake pedal travel is back to normal. If this procedure fails to restore normal pedal travel, or if any abnormally rapid increase in pedal travel is experienced, immediate inspection should be made by your Authorized Oldsmobile Dealer.

**CAUTION:** Brake pedal travel should not be obstructed by improper floor mats or other interfering material under the pedal.

## Parking Brake

The parking brake operates independently of the regular foot brake hydraulic system. It is applied by fully depressing the foot pedal which is located to the lower left side of the front compartment under the instrument panel. The brake system warning light will also be "ON" whenever the parking brake is not fully released and the ignition switch is "ON". The parking brake is released by pulling the "BRAKE RELEASE" lever located directly over the parking brake foot pedal. Never drive the car with the parking brake engaged.

**CAUTION:** When leaving the car unattended, always place the selector lever in "PARK" position (if equipped with an automatic transmission). On manual transmission-equipped cars, place the shift lever in reverse gear and fully apply the parking brake.



## Convertible Top

**CAUTION:** Do not attempt to lower the top when the temperature is below 40° Fahrenheit. Prior to lowering or raising the top, the car must be completely stopped and the sunshades turned down. Also, prior to lowering the top, make certain the top material is thoroughly dry and the top well is free of any stored items.

To lower the top, the locking handles, which are located at the front of the side rails, must be rotated inboard to release the lock hook levers from the strikers which are located at the outboard ends of the windshield header. (The locking handles must remain in open position until the top is again locked to the windshield header.) Actuate the power control switch until the top assembly is approximately two (2) feet from the fully lowered position. The top material and pads must be gently pulled rearward from between the operating arms of the top. The power switch may then be actuated to lower the top to its full down position.

To raise the top, actuate the power control switch until the top rests on the windshield header and the guide pin(s) on the

top outer ends engage the windshield header strikers.

To lock the top, first rotate the left side locking handle outboard and then the right side locking handle and insure proper engagement of the lock hooks with the strikers.

**IMPORTANT:** The top assembly must be securely locked to the windshield header prior to movement of car.

**Installing the Boot**—Remove the boot, which is stored in a plastic container in the rear compartment, and install by grasping the forward end of the boot and slide the welt of the boot into the retainer located on the top of the rear seat back panel. Position the boot over the lowered top and engage the boot snap fasteners onto the quarter trim fastener studs. The rear and side portions of the boot is then installed by starting at the center and pulling the boot rearward and inserting the plastic retainer under the belt moulding.

### **Fuse Block Location**

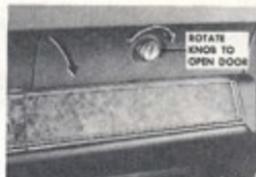
The fuse block is mounted under the instrument panel to the left of the steering column and just behind the parking brake. For fuse specifications see "FUSE SPECIFICATIONS" in the technical section.

## **Dual-Action Safety Hood Latches**



The hood is unlatched in two steps by means of disengaging the primary and secondary levers. The primary lever is accessible just below and to the right of the center grille when viewed from the front of the car. Pulling on the "T" type handle will release the hood, but it will be prevented from opening further by a secondary latch, located between the upper center grille and hood panel just to the right of the center. This lever must be moved, allowing the hood to be raised. After closing, always check to make sure the hood is properly secured.

## **Glove Box Door Latch**



The glove box door is opened by turning the door knob clockwise. It latches automatically when closed firmly. The oval headed key will lock the door when the key is inserted and turned counterclockwise.

## **Headlight, Instrument Panel and Dome Light Switch**

The headlight switch located at the lower left end of the instrument panel, serves four functions. (1) Pulling the switch halfway out provides parking lights, instrument panel lights, tail lights and side marker lights. (2) Pulling the switch all the way out provides all driving lights which includes headlights, parking lights, side marker lights, tail lights and instrument panel lights. (3) To dim instrument panel lights, turn switch knob clockwise. (4) To operate the dome light, turn switch knob fully counterclockwise.

# MAINTAINING SAFETY AND DEPENDABILITY

Listed below are a number of vehicle features that should be periodically checked to help maintain continued safe and dependable vehicle operation. Some will require physical checks, either while parked or driving, while others can be accomplished by simple visual inspections. In certain other instances, you should ask your dealer or service station to check the items when your vehicle is in for regular maintenance. Because weather and atmospheric conditions, varying road surfaces, individual driving habits and vehicle usage have a considerable effect on the need for replacing or adjusting these items, a single uniform service interval recommendation for all drivers is not always practical for every item.

## **Tires**

Tires will wear under normal use and require replacement periodically throughout the life of the vehicle. Original equipment tires incorporate built-in tread wear indicators to assist in determining when your tires have been worn to the extent that replacement is needed (described on page 48). Whenever your car is on the hoist for service, have your serviceman take a good look at your tires, checking them for excessive wear, cuts, nails, etc. Check too that all wheel nuts are tight, and that each wheel is running true (no wobble, as would occur with bent wheels).

Improper inflation, rapid acceleration, quick stops, fast cornering, high speeds and heavy loading adversely affect tire life and can cause uneven wear. Tires should be rotated every 6,000 miles for more uniform wear and maximum life. Check inflation pressure at least monthly.

## **Wheel Alignment and Balancing**

Wheel alignment and balancing contribute greatly to longer tire life and better vehicle handling. The need for wheel alignment service will generally be indicated by abnormal tire wear, and in some cases, by a noticeable pull to the right or left when driving on a straight level road. The need for wheel balancing may be indicated by a chattering or shimmying condition at the steering wheel or by a front end bounce or noise. Take your car to your dealer or a qualified wheel alignment shop whenever the need for wheel alignment or balance is indicated or suspected.

## **Brakes**

Brake lining wear will vary depending upon driving conditions and driving habits of each individual driver. Brake linings, as well as the other internal brake components at each wheel (such as

drums, wheel cylinders, etc.) should be checked by a competent mechanic at least every 12,000 miles or more often if driving conditions and habits result in frequent brake application. Parking brake adjustment should be checked whenever brake linings are checked, and front wheel bearings should be lubricated whenever brake drums are removed. Owners should periodically check parking brake function by parking on a steep hill, restraining the vehicle with the parking brake only. Following this, check the "Park" mechanism of automatic transmissions by releasing all brakes with the transmission selector lever in "P" position. If either mechanism does not hold, have needed adjustments or repairs made by a competent mechanic.

The brake fluid in the master cylinder should be checked at every oil change. Any significant loss generally means that a malfunction is developing in the system. On cars with disc brakes, a low fluid level in the front brake reservoir could be an indicator that the disc brakes need relining. If loss is noted, the cause should be determined and corrective action taken immediately. Any noticeable increase in brake pedal travel should also be brought to the attention of your serviceman, since this could also indicate brake fluid loss, improper brake adjustment or other brake malfunctions. Check your (dual purpose) brake warning light when you start your car, as set forth on page 13. See page 15 for detailed information on the function of automatic brake adjusters and how to use them.

### **Brake Lines and Brake Hoses**

Brake lines and brake hoses should also be periodically checked for proper attachment, leaks, cracks, chafing, deterioration, etc. Ask your serviceman to check brake lines and hoses when your car is on the hoist for oil change or lubrication service. Any

questionable parts noted should be replaced immediately by a qualified mechanic.

### **Exhaust System**

Each time the vehicle is raised for lubrication or oil change service, the complete exhaust system and adjacent body areas should be inspected for broken, damaged, or mispositioned parts, deterioration, open seams or loose connections, which could permit exhaust fumes to seep into the passenger compartment. Exhaust system leaks may sometimes be indicated by excessive under-car noise or the smell of exhaust fumes inside the car. Leaks may also be indicated by "smoke" coming from under the car after starting, particularly on a cold day. Any signs of leaks or other exhaust system deterioration should be discussed with your serviceman and necessary corrections made immediately. Exhaust system pipes and resonators rearward of the mufflers should be replaced whenever a new muffler is installed.

### **Lights**

As with any household light bulbs, the light bulbs in your car will eventually burn out and require replacement. License plate lights, side marker lights, headlamps, parking lamps, tail lamps, brake lights, turn signals and hazard warning flashers should be checked periodically. Have your serviceman check them during a regular maintenance visit or have a member of your family observe light operation while you activate the brake pedal and switches involved. Have any malfunctions corrected for your benefit and for the benefit of other drivers too.

Headlamp aim should also be checked periodically. Frequent

signaling by oncoming motorists when you are using your low beams is a good indication that headlamps are aimed too high. Likewise, poor visibility when driving on a dark road may indicate improper aim. Have your dealer or a qualified service station check headlamp aim at least once a year and be sure to have replacement units aimed properly at time of installation or following a front-end collision.

## **Steering**

On cars equipped with power steering, the power assist is provided by a hydraulic pump driven by the engine. When the engine is not running, or if the power steering pump drive belt should break, there is no power assist; therefore, much greater steering effort will be required. A loud squealing noise when making a full right or left turn is usually an indication of improper belt tension. The pump belt, as well as the other engine drive belts, should be checked periodically and adjusted or replaced as necessary.

Power steering lines and hoses should be checked for leaks, deterioration and chafing at every oil change. The power steering pump fluid level should also be checked at the same interval. In addition, your serviceman should be asked to visually check the condition of the steering linkage whenever your vehicle is raised for lubrication or oil change service. This should include an inspection of the pitman shaft, tie rod, idler arm, and steering arm attachments. Needed adjustments or replacements should be made promptly.

## **Other Features**

Many features provided for safety of vehicle operation could

become ineffective because of wear, misalignment or misadjustment occurring during normal use or as a result of misuse or abuse. Periodically, the driver should check performance of these features, as listed below, to determine that they are performing properly, or if repairs or adjustments are needed.

**Anti-Theft Lock** — Check that it will lock in only the PARK position (REVERSE on manual transmission cars) by attempting to turn key to LOCK in some other transmission selector position, with car stationary.

**Seat Belts** — Lap belts and shoulder belts, as well as buckles, retractors and anchors, should be checked for loose connections and damage, and proper latching action. Any questionable parts should be replaced.

**Windshield Wipers and Washers** — Continued good windshield wiper and washer performance is important to good driver vision. Drivers should check performance of both systems, particularly in regard to the condition and alignment of wiper blades, and the amount and direction of fluid sprayed by the washers. Blades should be replaced and wipers and/or washers should be serviced whenever vision is impaired.

**Defrosters** — Defroster performance could be adversely affected by malfunctions in the heater/defroster wiring or air distribution systems, which develop during vehicle use. Drivers should check defroster performance by turning controls to "de-ice" and noting whether a good supply of air is directed against the windshield. Cause of weak or mis-directed air flows should be determined and corrected by your Oldsmobile dealer.

**Starter Safety Switch** — Check automatic transmission cars by placing the transmission in each of the driving gears and attempting to start the engine. The starter should operate only in Park ("P") or Neutral ("N").

**CAUTION:** Be sure to have a clear distance ahead and behind the car, set the parking brake and firmly apply the foot brake. Do not depress accelerator pedal. Be prepared to turn off ignition switch immediately if engine should start.

To check a manual transmission car, depress the clutch halfway, place the transmission in neutral, and attempt to start. The starter should operate only when the clutch is fully depressed.

**Transmission Shift Indicator** – Check the automatic transmission selector lever indicator each time you drive the car, to be sure it accurately indicates the shift position you select.

**Horn** – Blow the horn occasionally to assure that it works.

**Seat Back Latches** – Check that seat back latches are holding firmly, by giving an emphatic yank at the seatback top, when latches are latched.

**Rearview Mirrors and Sun Visors** – Check that friction joints are properly adjusted so mirrors and/or sun visors stay in the desired position. It may be necessary to have the friction joints adjusted for best performance.

**Door Latches** – If for some reason doors do not close, latch or

lock properly, your dealer should be consulted without delay for evaluation and correction of the problem.

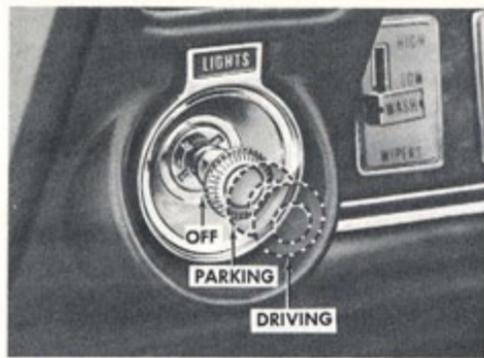
**Hood Latches** – Check to make sure the hood closes easily but firmly, by lifting on the hood after closing. Check also for broken or damaged or missing parts which might prevent secure latching of the hood, especially after any front-end collision.

**Fluid Leaks** – Inspect your vehicle periodically for fuel, water or oil leaks; and have repaired as needed. A good way to check is to observe the ground beneath the vehicle after it has been parked for a while.

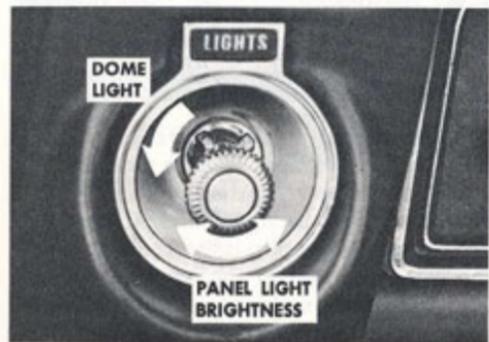
For your convenience, all of the checks discussed in this section that would normally be made by the car owner are listed in the "Owner Safety Checks" chart on page 51. The other services discussed that would normally be performed by your dealer or service station are included in the "Maintenance Schedule" on page 52. Perform the checks and services as indicated to help maintain the safety and dependability originally built into your Oldsmobile. Whenever malfunctions are discovered, they should be corrected as soon as possible by a competent mechanic.

For maximum performance and economy, keep your GM car all GM. Specify General Motors Parts identified by one of these trademarks:





The headlamp circuit is protected by a circuit breaker in the light switch. An overload on the breaker will cause the lamps to "flicker" on and off. If this condition develops, have your headlamp wiring checked immediately.



**GOOD DRIVING PRACTICE:** A good driver turns on his headlamps at early dusk, and during bad weather to help other drivers see his car from a distance, even though he himself may still be able to see the roadway adequately.

## Headlight Dimmer Switch



To obtain high or low beam headlights, push the foot dimmer switch located on the floor below the parking brake. A red light in the upper center of the speedometer cluster appears when you are driving on high beam.

**GOOD DRIVING PRACTICE:** Always use the "low beam" when approaching or following other cars.

For better night driving vision and for compliance with regulations of certain state, it is recommended that the headlights be checked periodically for proper aim and adjusted if necessary. Whenever the headlamp is replaced the aim should be checked. Adjustment can be made without removing the headlamp rim.

## Hazard Warning Flasher



In the event your car is disabled or you stop for any reason on the highway, the four-way hazard warning flasher system on your vehicle, front and rear signal lamps, should be used to warn other drivers that your vehicle is a traffic hazard. However, you should do everything possible to avoid stopping on the actual highway.

**CAUTION:** Use of the hazard warning flasher while the vehicle is moving is prohibited in some states.

The hazard warning system is activated by pushing in on the button located just below the steering wheel on the right side of the steering column. When the system is operating, the turn signal indicators on the instrument panel will flash simultaneously. Use this system only when your vehicle is stopped on or near the roadway, or otherwise constitutes a traffic hazard. The hazard flasher may be canceled by pulling the button outward.

**NOTE:** The hazard warning flasher will operate with the ignition in the lock position and the key removed, allowing the car to be locked while help is sought.

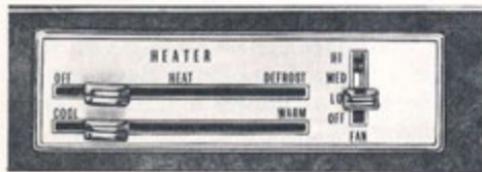
**CAUTION:** If the brake pedal is depressed when the hazard warning flasher is in operation, the lights will not flash but will glow continuously instead.

## Heating and Defrosting

(Without Air Conditioning)

Two levers, for air (upper) and temperature (lower), located in the heater control panel to the right of the steering column, provide maximum regulation and distribution of heated air in the passenger compartment.

**For Heating**—The air control lever must be moved to the “HEAT” position. The control regulates the degree of heat as it is moved to the right.



**CAUTION:** In inclement weather, clear snow or ice from cowl air inlets. This will improve heater and defroster efficiency and reduce formation of fog or frost on the inside of the windshield during initial operation under certain atmospheric conditions. Also, clear the windshield, rear window, outside mirrors and all side windows of ice or snow prior to operation of the vehicle. This will improve driver's vision during initial operation.

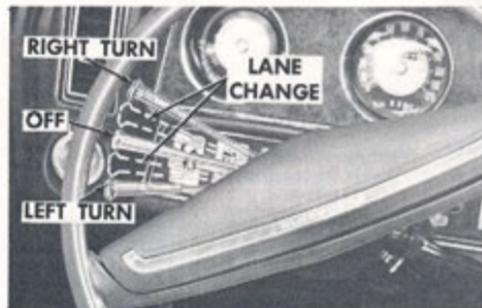
**For Defrosting**—Move the air control lever to the “DEFROST” position. When the air control lever is at the extreme right position, about 90% of the air will flow through the defroster outlets and 10% to the passenger compartment through the heating outlets.

**To Control the Blower**—Forced air for heating or defrosting may be obtained by moving the fan switch lever upward which is located to the right of the sliding lever controls. The first upward position from “OFF” is low. The second is medium and the top position is “HI.” For maximum heat in the rear seat area, put the fan on “HI,” move the air control to “HEAT” and the temperature control to the extreme

right, close the windows and make certain the space under the front seat is clear of any obstructions.

**To Turn the System Off**—Move the air lever to the extreme left, which is the “OFF” position, and move the blower switch to “OFF.”

## Turn Signals and Lane Change Feature



The turn signal lever is located on the left side of the steering column immediately under the steering wheel. The lever is moved upward to signal a right turn and downward to signal a left turn. Lamps on the front and rear of the car transmit this signal to other motorists and pedestrians. The ignition switch must be in the “ON”

position in order for the turn signals to be operational. This feature prevents battery drain if the lever is left in an "ON" position when your car is not in use.

In a normal turning situation such as turning a corner, the turn signal is canceled automatically after the turn is completed. However, in some driving maneuvers such as changing lanes on an expressway, the steering wheel is not turned back sufficiently after completing the turn to automatically cancel the turn signal. For convenience in such maneuvers the driver can flash the turn signals by moving the turn signal lever part way (to the first stop) and holding it there. The lever returns to the neutral or canceled position when the driver releases his hold on the lever.

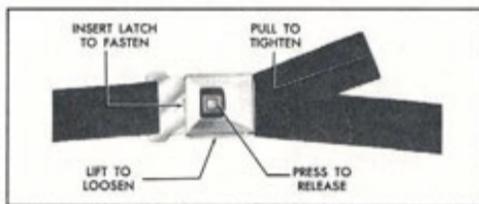
A green light on the instrument panel flashes to indicate proper operation of the front and rear turn signal lamps. If the indicator lamp remains on and does not flash, check for a defective signal lamp bulb. If the indicator fails to light when the lever is moved, check the fuse and indicator bulb.

## Occupant Restraint Belts

Lap and shoulder belts provide added security and comfort for you and your

passengers. Proper use and care of these belts will assure continuance of this security.

**Standard Lap Belt** — After the front seat has been adjusted to the satisfaction of the driver, grasp the buckle end and the flat metal "eye" end of your individual belt assembly and position the belt across

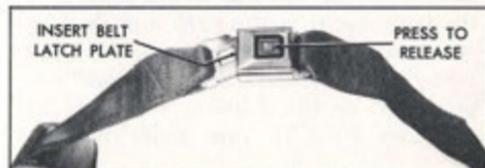


the lap as **LOW ON THE HIPS AS POSSIBLE**. Insert the metal eye into the open end of the buckle until an audible snap is heard. Make sure the connection is secure and adjust the belt to a **SNUG FIT** by pulling on the end of the belt extending from the buckle. The snug and low positions are essential in order that the force exerted by the lap belt in a collision may be spread over the strong hip bone structure and not across the soft abdominal area. For retractor equipped belts, pull the retractor half of the belt to a solid stop to make sure that the belt webbing is completely unwound from the retractor

drum, then connect the belt and make the necessary adjustments at the buckle for proper fit. To lengthen a lap belt, place the buckle at right angles to the belt webbing. The belt will then slide easily through the buckle. To release the lap belt, simply depress the push button located in the center of the buckle.

**CAUTION:** Never use the same belt for more than one person at a time. Be sure to avoid: (a) Wearing a lap belt loosely or with slack in the system; (b) Wearing the belt with the webbing not fully extracted from a non-locking retractor; and (c) Wearing the belt in a twisted condition or pinched between the seat structural (metallic) members.

**Deluxe Lap Belt** — Automatic-locking lap belt retractors are provided for the added convenience of the driver and outboard front seat passenger on all Oldsmobiles as an extra cost option. The automatic-locking retractors adjust and lock the lap belts



into position automatically to provide a snug and comfortable fit.

To fasten a lap belt equipped with an automatic-locking retractor, pull the webbing across the lap far enough to permit inserting the flat metal "eye" end into the buckle. If the webbing is not initially pulled out far enough to permit buckling, release the webbing, thus allowing it to rewind in the retractor and release the locking mechanism, so the webbing can be pulled out to the proper length. Once the buckle is fastened, pull the belt firmly across the lap in the direction of the retractor to obtain a snug fit. The retractor will automatically take up the excess webbing.

**CAUTION:** Wearing a shoulder belt without a lap belt can be extremely hazardous to the wearer in case of an accident. In addition, the use of a shoulder belt is not recommended for a person less than 4 feet 7 inches in height because the belt would cross over the body too near the neck and thereby substantially increase the danger of neck injury in a collision. Also to avoid improper force distribution, the shoulder belt should not be worn under the arm.

**CAUTION:** The buckle and flat metal "eye" of the lap belt used with automatic locking retractors are smaller than those used with other systems. Care should be taken to avoid inserting the small metal "eye" in the larger buckle of either the shoulder belt or the center lap belt because it will not latch properly.

**Shoulder Belts**—When properly worn with a lap belt, a shoulder belt can provide additional protection against impact with the car interior by restraining forward motion of the upper torso in a collision. This is primarily true in case of frontal impacts, which are the most frequent type of accident.



Shoulder belts are fastened and released in the same manner as lap belts. A shoulder belt should not be uncomfortably tight. A fist's width between your chest and the belt should provide sufficient slack. This can be checked by inserting a clenched fist between the belt and your chest with thumb against chest and back of hand facing upward.

**CAUTION:** The driver's shoulder belt should be adjusted so the driver can reach essential operating controls without undue restraint.

When not in use, shoulder belts should be secured in the special storage convenience provision. This is to reduce the danger of the metal end striking an occupant in a sudden stop. When storage provisions are not provided, the loose end mounted on the upper structure should be fastened to the floor-mounted end, and adjusted to remove excess slack.

Passengers in the rear seat of a convertible must remove their shoulder belts (optional at extra cost) **BEFORE** the top is lowered. The shoulder belt will require adjustment after the top has been either lowered or raised.

**Child Restraint** — Children in automobiles should be restrained to lessen the risk of injury in accidents, sudden stops or other driving conditions. General Motors has designed an "INFANT SAFETY CARRIER" specifically for infants and a "CHILD SAFETY SEAT" specifically for small children, which are available from your Oldsmobile dealer. The Carrier and Child Seat are designed to utilize lap belts in your 1970 Oldsmobile.



The General Motors Infant Safety Carrier and the Child Safety Seat must be used only in passenger vehicles equipped with lap belts. They may be used on seats which do not fold or folding seats equipped with a latch to hold the seat back upright (standard on 1967 and later

model GM passenger vehicles). Otherwise the Carrier or Child Seat should be used on the rear seat of the passenger vehicle. In using either Carrier or Child Seat, read and comply with all installation and usage instructions shown on the label attached to the device; do not use them in any manner not in accord with the label. Do not place more than one child at a time in the Carrier or Child Seat. All unused seat belts near the Carrier or Child Seat should be stowed properly to prevent them striking the child in the event of a sudden stop or collision. Shoulder belts should be stowed in any special storage convenience provision provided. Lap belts and shoulder belts without storage provisions should have buckles latched and belts adjusted to remove slack.

**CAUTION:** Neither the Carrier nor Child Seat are recommended for use with folding or hinged seat backs not having self-locking devices. The Carrier is designed for use only with infants weighing up to 20 pounds. The Child Seat is designed for use only by children who are able to sit up by themselves weighing up to 30 pounds.

**Cars Not Equipped with Special Child Restraints** — If a child is traveling in a

vehicle not equipped with a General Motors Infant Safety Carrier or Child Safety Seat, the following precautions should be taken:

1. Children should be placed in the rear seat. Never allow a child to stand or kneel on any seat.
2. Infants unable to sit up by themselves should be restrained by placing them in a covered, padded bassinet which is placed crossways in the vehicle (widthwise) on the rear seat. The bassinet should be securely restrained with the regular vehicle seat belts. An alternate method is to position the bassinet so that it rests against the back of the front seat, again crossways in the vehicle.
3. When a child is old enough to sit up by himself in a car, he should sit on a firm cushion and use the conventional lap belt to restrain him at the hips. The cushion should be as firm as practical and enable the child to look horizontally out of the car windows.
4. The use of the cushion should be discontinued as soon as the child is old enough to see out of the car windows without it.

5. Do not use shoulder belts on children shorter than approximately 4 feet 7 inches in height.
6. General Motors recommends that children be restrained while riding. However, if conditions require that a child must stand, he should stand on the floor directly behind the front seat. This will minimize the possibility of his being thrown from the rear compartment during a sudden stop. This method should be used only if more complete restraint cannot be used.

**Belt Inspection and Care** – Keep the belts clean and dry. Clean with a mild soap solution and lukewarm water. Keep sharp edges and damaging objects away from belts. Periodically inspect belts, buckles, retractors, and anchors for damage that could lessen the effectiveness of the restraint system, and have questionable parts replaced. Seat belts should be replaced if cut, weakened, frayed, or subjected to collision loads. During seat belt inspection, check that anchor mounting bolts are tight to the floor. Do not bleach or dye belts since this may cause severe loss of strength.

**Pre-Collision Positioning** – If, in addition to wearing seat belts, a person can “pre-position” his body to get ready for a

frontal impact, the severity of his impact with the vehicle interior can be reduced by a considerable amount. If a severe accident threatens, the “pre-positioning” technique calls for reducing the space between one’s body and the vehicle interior as much as possible. Practice beforehand in assuming the proper position may make its employment automatic in an accident situation.

A driver wearing both lap and shoulder belt should lean forward into the restraint system, grip the upper rim of the steering wheel with both hands, and rest the arms on the steering wheel rim with elbows out. Control of the vehicle can be maintained until the last possible moment; then bend the head forward. If the shoulder belt is not worn, the driver should at the last moment rest his forehead on the backs of his hands.

A front seat passenger wearing both shoulder and lap belt should lean into the shoulder belt, place hands and forearms on top of the instrument panel with elbows out to the side and the head bent far forward. Front seat passengers wearing lap belts only should lean as far forward as possible, place their forearms on top of the instrument panel, and cradle their head on their arms. Lap-belted rear seat

occupants should lean far forward, and rest head on arms on the top of the front seat back rest. Children or short adults in front or back seats who cannot contact instrument panel or seat back with their head when swinging forward should lean far forward with head down, and wrap their arms beneath and around their upper legs.

While these positions cannot protect the occupants against all types of injury in all types of accidents, they can be expected to reduce injury severity in the majority of cases.

## Head Restraints



The head restraint may be raised by simply pulling up until the spring latch engages the detent notch in the UP position. DO NOT use the head restraint above the UP detent position. To lower the head restraint, depress the latch at the base of

the supporting rod at the same time the restraint is pushed downward. Select the UP or DOWN position for the head restraint according to your seated height. The position that places the top of the head restraint at the same height as, or above the center of your head will normally prove best suited to your needs. Do not operate the vehicle with the head restraint removed. The head restraint is also designed to protect rear seat passengers by shielding the head restraint latch and bracket on the front seat back rest, which may be in the head impact area of some adult rear seat occupants. Check the head restraints periodically; if any components are missing or if the restraints do not appear to be functioning properly, they should be inspected by your Oldsmobile Dealer and any necessary corrections made.

## Seat Adjustments



Manual Seat Adjustment — The front seat, either bench or bucket, may be adjusted to

suit an individual's preference. Simply release the seat lock mechanism, by forward movement of the lock lever, located at the side of the seat. Once released, exert slight body pressure in the direction desired. Release the lever to lock the seat in the desired position.

**CAUTION:** The filler panel between the rear seat and the rear window should not be used for storage—even the lightweight, small articles. They might become dangerous projectiles during a collision or sudden stop; larger items may also reduce the vision to the rear.

## Front Seat-Back Latch

Folding seat backs are equipped with self-latching mechanisms and release controls designed for the convenience of entering and exiting passengers. The seat back latch prevents the seat back from folding forward under loads equal to more than 20 times the weight of the seat back.

To release the latch on the Strato design seat, push the button located in the upper center rear section of the backrest and tilt the backrest forward. The latch release lever for the standard bench seat is located on the lower rear outboard section



of the backrest. Lift the lever to release and tilt the backrest forward.

On 2-door models equipped with optional power door locks, both front seat-backs unlock automatically when either front door is opened and lock when both doors are closed. The seat-backs also can be unlocked by lifting up on the manual release lever.

## Sun Visor Adjustment

The force required to rotate the visor up and down may be adjusted by tightening or loosening the screw indicated in the illustration.

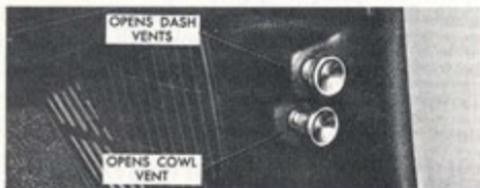


## Trunk Compartment

The trunk compartment lock can be opened with the oval-end key and the counter-balanced trunk lid lifted upward. To close, the lid must be shut firmly to engage the lock. The spare wheel and wheel changing tools are located in the trunk.

## Ventilation

(Without Air Conditioning)



On cars equipped with single vent controls, outside air can be admitted directly into the car through vents located on the right and left cowl side panels. The vents are individually controlled by pull knobs located just below the bottom right and left sides of the instrument panel.

On cars equipped with dual vent controls (standard on certain body styles and optional on others), outside air may be

admitted to the passenger compartment through outlets in the instrument panel independently from the cowl side panel outlets. For upper level ventilation, pull the upper vent control knobs located at the lower ends of the instrument panel. The louvered outlets directly above the control knobs are adjustable to direct air to the right or left. The center instrument panel outlet is for appearance only and is not functional. The lower vent knobs control the amount of air flow through the two outlets in the cowl side panels for lower level ventilation. Both upper and lower level ventilation may be obtained simultaneously or separately.

## Windshield Washers and Wipers

The windshield wiping system operates at two speeds and is designed to wipe clear designated areas of the windshield under most inclement weather conditions. The windshield wipers work electrically and are not affected by engine operation. When the control lever is moved to the



"LOW" position, the wiper operates at the lower speed. Full speed is obtained by moving the lever to the "HIGH" position. By depressing the washer button as shown, the windshield washers spray a solution on the windshield and wipers automatically start operating. When the washing action is completed, the wipers are turned off by the wiper control lever. Wiper blades are properly positioned when the blade tips do not touch the lower or side moldings of the windshield while the wipers are in operation.

The wiper motor is protected from overloading by a circuit breaker. Should an excessive buildup of snow or ice cause the wiper to cease operating, the wiper switch should be turned "OFF" and the accumulation removed. When the wiper motor cools, the circuit breaker will automatically reconnect and the wipers will become operational again when the switch is turned on.

**NOTE:** If recessed windshield wipers are frozen in place, break them free the same way you would exposed wipers by using your regular windshield ice scraper to chip the ice and jar the wiper assembly loose.

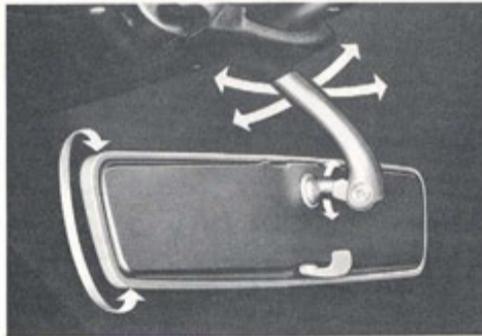
## Windshield Washer Solvent

GM Washer Solvent is recommended for use in the washer reservoir. To prevent freezing and paint damage, the solvent should be used according to directions on the container.

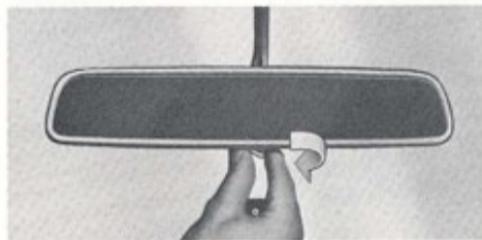
**CAUTION:** Have the fluid level in the washer reservoir checked regularly, with special attention to keeping the reservoir filled during periods of heavy use. GM Washer Solvent should be used as directed to prevent freezing damage and for better cleaning of the windshield under all conditions. Do not use radiator anti-freeze as this will cause paint damage.

## Rearview Mirrors

Rearview mirrors are not intended for use while backing up, or for surveillance of conditions close to the rear of the car. It is suggested that the driver turn his head and look to the rear during backing operations.



The inside day-night rearview mirror incorporates a triple-jointed mounting so the driver can position the mirror vertically and horizontally to suit his driving needs. It is only necessary to exert enough pressure to overcome the friction load at the three joints in order to adjust the mirror to any position within the physical limits of its travel.



**Day-Night Feature**—This mirror may be moved from clear daylight visibility to non-glare visibility at night by **TURNING** the small tab at the bottom of the mirror.

**GOOD DRIVING PRACTICE:** A good driver always scans the area to the rear **BEFORE** entering the vehicle and backing up, and makes a habit of using his rearview mirrors while driving, so as to be aware of the rearward aspect of his total driving environment.

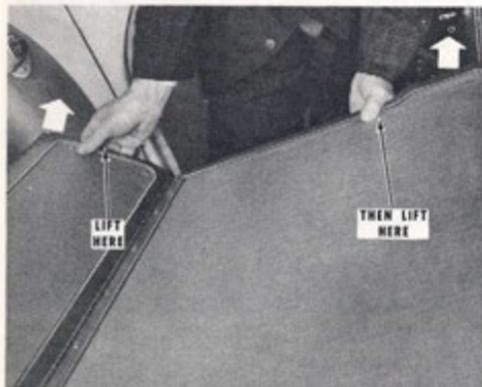
## Reflecting Surfaces

The windshield wiper arms and blades, inside windshield moldings, horn and steering wheel ornamentation, inside rearview mirror frame and mounting bracket incorporate low-gloss finishes. This reduces annoying glare in the driver's forward field of view and provides a safer, more comfortable driving environment.

"For maximum performance and economy, keep your GM car all GM. Specify General Motors Parts identified by one of these trademarks: GM - United Delco - AC."

# STATION WAGON

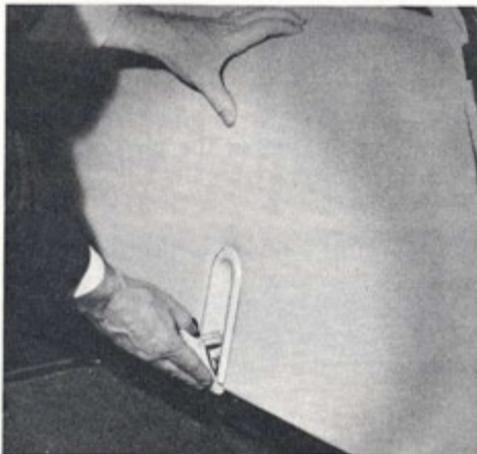
## Folding and Raising Seats



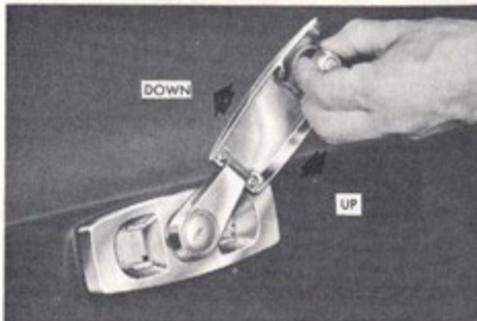
To fold down, disengage seat back from the catch on the right side and pull forward and down on the top of the seat back. To raise, lift up on the hinged section of rear compartment floor while raising the seat back. Continue raising the seat back until the catch on the right side is engaged.

## Spare Wheel and Equipment

The spare wheel and wheel changing equipment are located vertically at the right side of the rear compartment. The wheel cover is removed by releasing the latch as shown.



## Standard Tailgate Window Control



Manual—To lower the tailgate window, pull out the window control knob at the end indicated by the arrows on the handle, and turn the handle counterclockwise until the window is down. To raise the window, pull out on the control knob and turn it clockwise. When the window is complete-

ly closed, place the control knob in the closed position.

**Power** — To operate the electric rear window control (optional equipment) from the outside insert the ignition key in the tailgate lock and turn clockwise. Turning the key counterclockwise raises the window.



The rear window also may be raised and lowered from the driver's compartment with the control switch, located on the instrument panel to the left of the steering column. This switch operates only when the ignition is in the "ON" or "ACC" position. As in the case of the manual control, the window should be completely down before the tailgate is opened.

**CAUTION:** Under some conditions, driving with the tailgate window open can permit exhaust fumes to enter the vehicle (see Exhaust Gas Warning, Page 6).

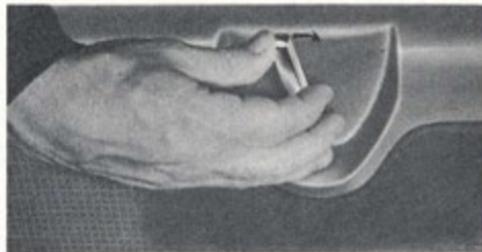
**NOTE:** When the tailgate is open, a switch automatically prevents the window from being raised.

If it is desired to drive with the tailgate window open, the following precautions should be observed:

- Close all other windows.
- Adjust heating or cooling system to force outside air into car with blower set at high speed, and controls set in any position **except** "OFF" or "MAX."
- On cars equipped with outside air vents in or under instrument panel, open vents fully.

Be sure to roll the glass all the way down before opening or closing the tailgate either to the side or down.

**CAUTION:** When the vehicle is in motion, it is recommended that children not be allowed to play or rest in rear areas of the station wagon where there are no laps or shoulder belts available for proper occupant restraint.



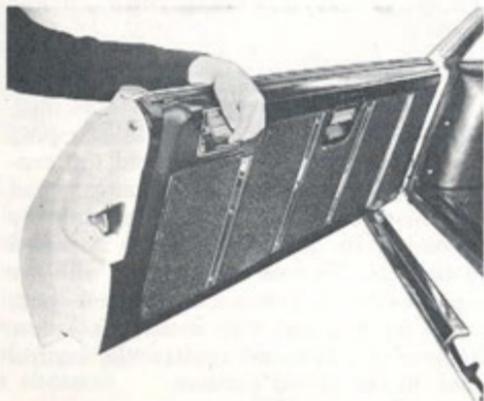
## Standard Tailgate Operation

Whether the station wagon is equipped with a manually or electrically operated rear window, it is recommended that the rear window be lowered fully before opening the tailgate to avoid possible window damage.

When the window is completely down and the control knob placed in the closed position, the tailgate is opened by grasping the tailgate latch handle located top center on the inner panel of the tailgate and turning as shown. The tailgate may be opened when the latch handle is pulled to the left. To lock the tailgate with the manual control, pull out the control knob, insert the key and turn counterclockwise. Remove the key and replace the control knob in the closed position.

## Drop or Swing Tailgate

The optional Drop or Swing Tailgate incorporates a unique hinge and locking arrangement that allows the tailgate to be operated in the conventional manner and, additionally, as a door. All wagons utilize either manually or electrically operated window that can be lowered into the gate or raised into the back body opening. The manual window is operated by a regulator control handle located in the tailgate outer panel. The power window can be operated by one of three control switches: one on the instrument panel, one at the lock cylinder of tailgate outer panel (key operated), and one on the wheelhouse cover panel



(optional, down only). All styles using a power tailgate window are equipped with an electrical switch that prevents movement of the window with gate in any position other than fully closed.

The tailgate is unlocked to "gate position" by means of a remote control inside handle located in the top center of gate inner panel. Unlocking to "door position" is accomplished with a remote control inside handle located at top right side of inner panel. The tailgate cannot be opened in either direction, however, until window has been fully lowered. All tailgates are counter-balanced by a torque rod that assists in reducing the effort required to open or close the tailgate.

**CAUTION:** When using your station wagon to transport luggage or other cargo, it is recommended that the articles be secured in place. This precaution may prevent such items from becoming projectiles in the event of a sudden stop or collision. Cargo loads, whether inside or on the roof in an Oldsmobile luggage rack should be distributed as far forward as possible for better vehicle handling.



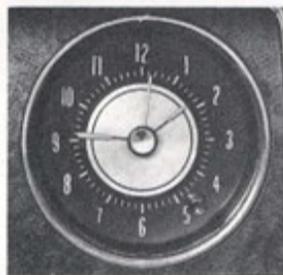
**Guardian Maintenance Tip** – If your front wheels are out of alignment, your wheels are dragging sideways and every mile you drive you leave a costly amount of rubber on the roadway. Expert wheel alignment service will save your tires.

# ACCESSORIES

## Anti-Spin Differential

The Anti-Spin differential (optional at extra cost) provides additional traction on snow, ice, mud, sand and gravel, particularly when one drive wheel is on a surface providing poor traction. During normal driving and cornering, the Anti-Spin unit functions as a standard differential. When one wheel encounters a slippery surface, however, the Anti-Spin differential directs the driving force to the wheel having the better traction.

**CAUTION:** On cars equipped with an Anti-Spin differential, never run the engine for any reason with one drive wheel off the ground, since the car may drive through the wheel remaining on the ground.

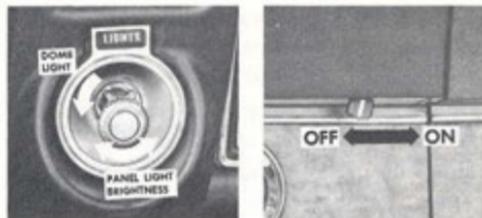


## Electric Clock

The electric clock (optional equipment) is automatically regulated to compensate for lost or gained time whenever the clock is reset. If the clock is running fast, set the hands back (counterclockwise); if running slow, set hands forward (clockwise). Several resettings, several days apart, may be needed to properly adjust the clock mechanism for any major correction.

## Courtesy and Dome Lights

The dome light is controlled by the headlight switch. Turning this switch fully counterclockwise will turn the light on.



The courtesy lights (optional on some models) are controlled by the map light switch. These lights will come on automatically when the front doors are opened.

## Cruise Control

Oldsmobile Cruise Control system (optional accessory) allows you to maintain the cruising speed you select on turnpikes or open highways without holding your foot on the accelerator pedal. The "ON-OFF" switch is located on the instrument panel to the left of the steering column. The engagement button is located in the end of the turn signal lever. To operate, push



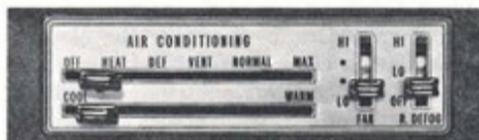
the "ON-OFF" rocker switch to the "ON" position, accelerate the vehicle to the desired speed and momentarily push in the engage button. Take your foot off the accelerator and this speed will be maintained up or down hill. A red light in the center of the switch will glow when the switch is on. Your cruising speed may be increased at any time by depressing the accelerator pedal and pushing the engage button completely in when the desired speed is reached. If you wish to decrease your speed, press the engage button completely in and hold until your cruising speed is reduced to the level desired, then release the button. For passing or emergency situations, you can increase your speed by depressing the accelerator pedal.

When you remove your foot from the pedal, the car will slow down to your cruising speed prior to the acceleration. The Cruise Control system can be disengaged at any time by lightly depressing the brake pedal, by normal braking or by pushing the switch off. The system does not operate under 30 m.p.h. or when the ignition is off. When Cruise Control is not in operation, the instrument panel switch should be pushed to "OFF" position.

**CAUTION:** With the Cruise Control engaged, releasing the accelerator pedal does not permit engine speed to return to idle. Do not use the Cruise Control when conditions do not warrant maintaining a constant speed, such as in heavy traffic, or on winding or slippery roads.

## Heater-Air Conditioner

The heating and defrosting controls of this optional system are combined with the air conditioning controls in a panel located to the right of the steering column.



**Controls** – Sliding lever controls provide desired temperature comfort at your fingertips. For ease of operation, the controls are combined with heating controls in the same panel.

**For Cooling** – Move the air (upper) control lever to the "NORMAL" position. This

allows 100% outside air to enter the cooling system. Or move the air lever to the "MAX" (maximum) position for a mixture of about 80% recirculated and 20% outside air. Use the "VENT" position to induce outside air (without refrigeration) during mild weather. For maximum cooling, move the temperature (lower) lever to the "COOL" position. The cooled air is delivered to the passenger compartment through the air conditioner outlets. To temper the cool air, move the temperature lever to any position between "COOL" and "WARM". This permits cool air to mix with heated air and enter the passenger compartment at the desired temperature through the air conditioner outlets. During cool, rainy weather use one of the two higher blower speeds and move the air lever to "NORMAL" to discourage window fogging. Adjust the temperature lever to maintain comfort.

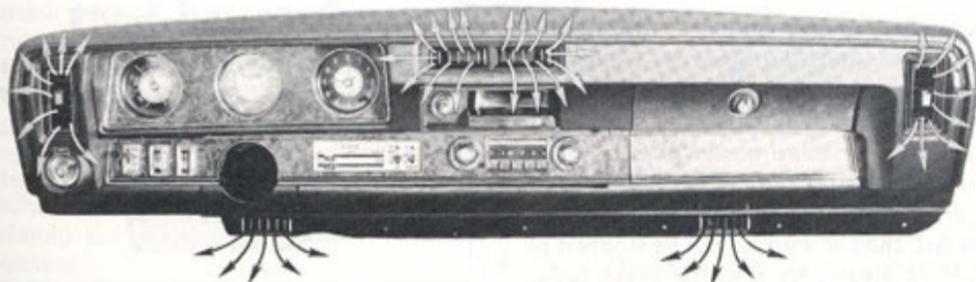
**NOTE:** When the air lever is moved to the "HEAT", "VENT" or "DEF" position, or the system is turned "OFF" after being operated in "NORMAL" or "MAX", the compressor clutch will not be disconnected until the ignition switch is turned off.

**Fan Operation During Cooling** – Under most conditions, adequate cooling may be obtained with the "LO" or one of the two

medium fan speeds. Maximum cooling will result when the fan switch is in the "HI" position and the temperature control moved all the way to the left.

**To Turn Cooling System Off** – Move the air control lever to the extreme left which is the "OFF" position.

**Dash Outlets** – At the right and left ends of the instrument panel are air outlets which may be swiveled to the desired position. The air from these outlets may be shut off by closing the outlet louvers. At the center of the instrument panel are dual adjustable air outlets, each having independent adjustments. Two additional outlets in the valance just below the dash panel provide added air flow and lap cooling.



**For Heating** – Move the air control lever to the notched position directly under the word "HEAT". This allows 100% outside air to enter the heating system. To warm the air to the temperature you want, move the temperature control lever to any position between "COOL" and "WARM." This permits the proper mixture of heated air and outside air to enter the passenger compartment through the heating outlets.

**For Defrosting** – Set the temperature lever to obtain the air temperature you want. Move the air lever to the "DEFROST" position. This directs about 90% of the heated air to the windshield through the defroster outlets and 10% to the passenger compartment through the heating outlets.

**For Humidity Control** – The compressor is engaged by moving the air lever to

"NORMAL" or "MAX" position. Once engaged, the compressor will run until the ignition switch is turned off. This will remove humid air from the system and minimize rapid fogging of the windows which can occur if humid air is blown onto cool glass. In mild weather, when use of the heater or defogger is desired and the air conditioner was previously used, operate the air conditioner in the "NORM" or "MAX" position before switching to "HEAT" or "DEF" from the "OFF" position.

**To Control the Blower** – Move the blower control lever to one of four positions: "LO," 1, 2, or "HI." These four blower speeds can be used for heating, defrosting and ventilation.

**To Turn Heating System Off** – Move the air control lever to the "OFF" position.

## **Night-Watch Light Control**

The Oldsmobile "Night-Watch" light control (optional equipment) provides for an additional period of light for the driver and passengers after they leave the vehicle. By depressing the "Night-Watch" control switch button after the Steering

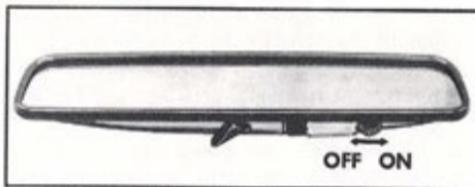
Column Lock and headlight switch have been turned to the "OFF" position and the key removed, the car's driving lights will be placed in an OFF-delayed position remaining on for a period of 45 to 60 seconds before shutting off.



## Hood Lock

The Hood Lock is an additional theft protection option that prevents unwanted admittance to the engine compartment when the lock lever is in the "LOCK" position. The control is located to the left of the steering column on the lower edge of the dash panel. To unlock the hood, move the lock lever to the "UNLOCK" position. Very little effort is required and it should never be forced. The hood may be raised in the conventional manner using the dual hood latches at the front of the vehicle.

## Rearview Mirror Map Light



This convenience feature (optional at extra cost) enables the driver to obtain light where he needs it simply by sliding the light switch, located on the lower edge of the mirror, to the right. The ignition lock must be in the "ON" or "ACCESSORY" position for the light to operate.

## Power Brakes

Cars equipped with optional power brakes or power front disc brakes use engine vacuum to reduce the braking effort. The system has a vacuum reserve which will supply two or more power assisted brake applications after the engine has stopped. After the vacuum reserve has been exhausted, the vehicle can still be stopped by applying greater force to the brake pedal.

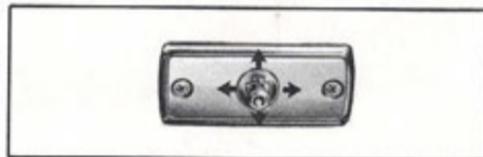
## Power Door Locks



The power-operated door-lock system (optional equipment) makes it possible to lock and unlock all doors simultaneously. The switch buttons that operate the Power Door Locks, are located on the upper portion of both front door panels. These buttons give instant, convenient, fingertip control of all door locks. Coupes and convertibles equipped with optional power door locks also feature a device to automatically unlock the front seat backs when a door is opened.

## Power Operated Seats

Four-Way Electric—An electric combination four-way tilt type control is available



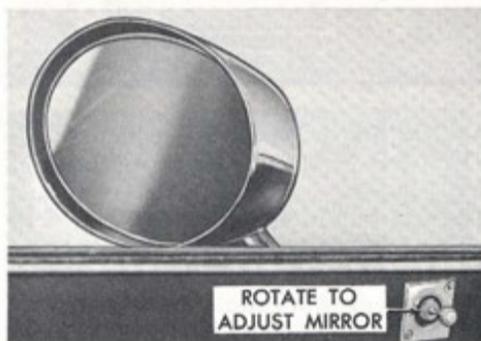
on bucket seat equipped Oldsmobiles, on the driver's side only, as optional equipment. Moving the control switch forward and backward will provide corresponding movement of the entire front seat assembly. Moving the switch up or down will raise or lower the back portion of the seat assembly.



### **Power Trunk Lid Release**

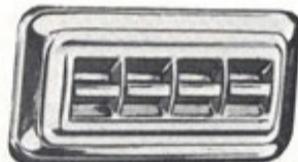
The control button for this optional item is located behind the glove box door. Pushing the button electrically releases the trunk lid latch and allows the trunk lid to swing open. The control can be operated at all times with or without the engine running. The control works independently of the conventional key-opening operation and will not interfere with its function. Locking the glove box door prohibits access to the trunk lid control, should the trunk contents need this protection.

### **Remote Controlled Mirror**



The control lever for this optional outside rearview mirror is located on the door. To adjust the position of the mirror, simply move the lever in the direction desired.

### **Power Window Controls**



With this optional power operated window system, all vertical moving windows (except the Station Wagon tailgate window) are controlled by the power window con-

trol switches located on the left front door. Individual switches are provided under each window for passenger use. All of these switches have an ignition interlock so that windows cannot be operated unless the ignition switch is "ON" or in the "ACCESSORY" position. Reminder: Remove the key from the ignition when the vehicle is not attended by a responsible person.

### **Power Steering**

Oldsmobile's optional power steering provides ease in handling, making it more convenient to park and to get into or out of tight places. Power assist is provided by a hydraulic pump driven by the engine. When the engine is not running or if the power steering pump drive belt breaks, the car can still be steered, but much greater steering effort will be required.

### **Radios and Equipment**

Oldsmobile offers as optional equipment two transistorized radios, Deluxe and AM-FM Stereo, which play instantly when turned on. Both sets have the following controls:

**Control Knobs**—The left knob operates the "ON-OFF" switch and the volume control,

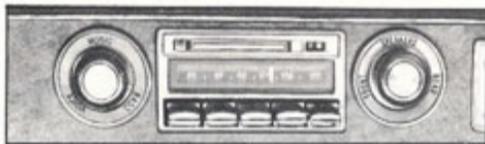
while the ring behind the left knob controls the tone. Manual tuning is accomplished by turning the right hand knob.

**Adjusting Push Buttons**—The push buttons are adjusted as follows:

1. Turn on the receiver.
2. Select a push button for the desired station. Move this button slightly to the left and pull out as far as it will go.
3. Tune in the desired station manually.
4. Push the selected button to its maximum "in" position in order to lock it.
5. Proceed in the same manner for the remaining stations.
6. A station setting may be changed at any time by repeating the foregoing procedure.



**Deluxe Radio**—The Deluxe radio (optional equipment) is an all transistor unit that plays immediately when turned on. Its operation is simplified with two control knobs and five pre-set station push buttons.



**AM-FM Stereo Radio**—The optional AM-FM Stereo radio, provides a selection of AM-FM monaural or FM stereo reception. The AM or FM frequency band may be selected by sliding the control switch (located immediately above the radio dial) to the right or left. The type of reception selected is indicated by the letters AM and FM. (Follow the procedure for push button tuning adjustment.)

FM reception, to a great degree, is free from atmospheric static and man-made interference such as neon lights, power lines, ignition systems, etc. Normal FM reception should be almost noise-free unless the radio is tuned to a very weak station in the fringe area. It may be necessary, while driving, to manually retune FM stations slightly to maintain peak reception. The stereophonic feature is pre-set at the factory for balance and correct separation of sound. An indicator light on the center of the dial (marked STEREO) comes on only when an FM stereo station is selected. It is also important that your front and

rear speakers be properly balanced for the best stereo effect. The balance is adjusted by using the rear seat speaker knob. Stereophonic reception is possible only when the station is transmitting stereo even though the "STEREO" light is on.



### **Rear Seat Speaker**

With this optional equipment the ring behind the right knob on the radio panel enables you to blend or modulate the volume of the front and the rear seat speakers. As the control is turned to the right, the volume from the rear speaker is decreased. Turning the control to the left causes the reverse. With the word "SPEAKER" in the top position, the volume is approximately equal at the front and rear speakers.

### **Stereo Tape Player**

The optional stereo tape player provides pre-recorded stereo music for your enjoyment. It utilizes a 4-channel, 8-track tape pack and the front and rear radio speakers. (The radio does not have to be on.) All tape player controls are contained within



the unit. A pilot light on the player indicates when the player is in operation.

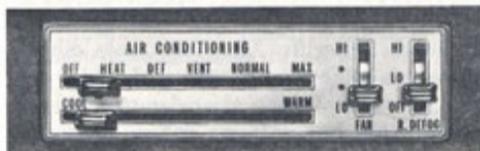
To play the tape unit, the ignition switch must be in the "ON" or "ACC" position. Insert the tape pack in the slot (label side up) and engage fully. The player controls should then be adjusted as follows:

1. Program Selector—push the program bar to select the desired program number. Individual songs or arrangements cannot be selected, as there may be more than one on each numbered program.
2. Volume and Tone Knobs—adjust as desired.
3. Balance Knob—for the best stereo effect, the balance between the front and rear speakers may be controlled by turning the knob to the left or right as required.

To avoid damage to your tape packs, never leave one engaged in the player when not in use. Store tapes in a cool, dry and clean

place, out of the direct sun light and with the open end of the pack up.

## Rear Window Defogger



For rapid defogging of the rear window, an optional rear window defogger is available. It is mounted under the rear window filler panel, with the 2-position switch for the blower located just to the right of the fan switch on the heater control panel.

## Rally Pack



Oldsmobile's Rally Pack (optional equipment) is a group of precision instruments mounted in two clusters. The functional instruments included in this unit are the

generator light, temperature gauge, oil pressure gauge, tachometer and clock.

The generator light glows when the ignition switch is turned on, but goes off when the engine is started. If the "Gen" light ever goes on with the engine running (even at idle) the charging system should be checked as soon as possible to prevent the Energizer (battery) from becoming discharged.

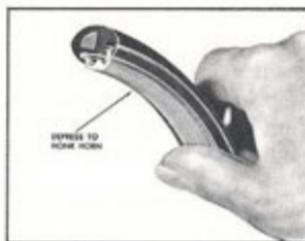
The temperature gauge shows the engine operating temperature. Should the pointer stay near or on the "H", the engine should be stopped immediately, allowed to cool and the coolant level checked.

**CAUTION:** The radiator cap should not be removed until the engine is cool.

The oil pressure gauge shows the engine oil pressure when the engine is running. During engine warm-up, indicated oil pressure will be noticeably higher than when the engine is at normal operating temperature. Should the indicator point to the "L" at any time during normal driving, stop the engine immediately and have the cause corrected. Driving the car with low oil pressure can cause extensive engine damage.

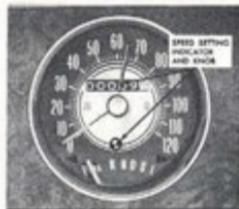
The tachometer is provided to inform the driver of the engine speed in revolutions per minute and to serve as an aid in evaluating engine performance.

### **Rim-Blow Horn Control**



On this optional steering wheel, the horn control is activated by lightly depressing the soft section located on the inside circumference of the steering wheel rim.

### **Safety Sentinel**



The safety sentinel indicator (optional equipment) is set at the desired speed by turning the safety sentinel knob located near the center of the speedometer cluster. When the car speed is increased so that

it reaches or goes beyond the speed setting, a buzzer warns the driver that he is exceeding his desired speed.

### **Superlift Shock Absorbers**

Optional Superlift Air Adjustable Shock Absorbers allow you to ride with the trunk or load space of your car or station wagon fully loaded but with no annoying sag or bumps. Air is added to the rear shocks as needed through the air valve located in the bumper behind the license plate on all models except station wagons. On station wagons it is located on the rear bumper at the top right corner of the license plate.

A minimum pressure of 10-15 psi. should be maintained at all times. After the car is loaded, pressure may be increased until the rear of the vehicle reaches the desired riding height or to a maximum of 90 psi.

### **Tilt-Away Steering Wheel**

The Tilt-Away steering wheel (optional equipment) can be tilted up above normal position to provide additional room for entrance and exit as well as selected driving positions at or below normal height. This

permits individual selection of the most natural position for all driving conditions. On long trips the steering wheel position can be changed to minimize tension and fatigue.



The tilt mechanism is operated by lifting up on the small control lever on the left side of the steering column just below the directional signal lever, moving the steering wheel to the selected position, and releasing the lever.

# GUARDIAN MAINTENANCE FOR OWNER PROTECTION

## **Importance of Protecting Your Investment**

Your purchase of a 1970 Oldsmobile was an important decision — one that represented a sizable investment. Unquestionably, this was a wise decision since you have selected a fine automobile that, with reasonable care and use, will give you many years of safe, dependable service and enjoyment.

Now you are faced with another decision — to what extent are you willing to protect your investment? This should not be a difficult decision, but again it is an important one. Only you can make certain that your car receives the care it requires to retain the safety and dependability originally built into it.

Compared to the car of years past, your new Oldsmobile needs only a few regular maintenance services. But because there are only a few, do not minimize their importance. The demands placed on the present day automobile in all of the varying conditions of traffic, temperature, high speed operation, etc. make it more impor-

tant than ever that the car receives proper maintenance.

For example, regular attention to engine oil is essential. The oil level must be periodically checked and oil added whenever needed. Also, the oil should be changed at the intervals specified in this manual with the proper quality and viscosity of oil. If your engine should run excessively low on oil or if the oil has lost its lubricating qualities because of old age, serious engine damage could occur — damage that would not be covered under the New Vehicle Warranty.

It is also important that the safety related components of your car be checked regularly. For example, the exhaust system should be looked at whenever your car is on the hoist for an oil change and corrections made to any defects noted. If leaks in the system are ignored, exhaust fumes could possibly seep into the passenger compartment resulting in serious consequences to the occupants.

All of the recommended maintenance items for your Oldsmobile are discussed in this section of this manual and summarized in the "Maintenance Schedule" presented on page 52. In addition, be sure to read the colored supplement entitled "Maintaining Safety and Dependability"

for tips on keeping your car in optimum condition.

## **Guardian Maintenance Service**

The quality of maintenance your new car receives is as important as the regularity with which it is serviced. The "Guardian Maintenance Service" program has been developed by Oldsmobile Division in cooperation with Oldsmobile Dealers to provide nationwide quality in customer service. The program includes the training of dealer technicians at General Motors Training Centers throughout the country and is supported with a continuous follow-up of publications, films, and other service information. The use of genuine General Motors parts and accessories, which have the same high quality standards as original equipment parts, and the use of Oldsmobile approved tools developed and tested for use by Oldsmobile. Dealers also contribute to the high quality of Guardian Maintenance Service.

No one else has more knowledge or is better prepared to service your Oldsmobile than your Oldsmobile Dealer. Return to him for Guardian Maintenance Service at the intervals designated in this manual.

# RECOMMENDED LUBRICATION SERVICE

## Ball Joints

The ball joints should be lubricated every 12 months, using a water resistant E.P. chassis lubricant, which meets GM Specifications 6031-M. Inspect seals for damage at each lubrication.

## Brake Master Cylinder

Check the fluid level at each oil change period. Wipe off the brake cylinder filler cap and unsnap the retainer. On all standard and power brakes, the fluid level must be maintained at  $\frac{1}{4}$  inch below the top of

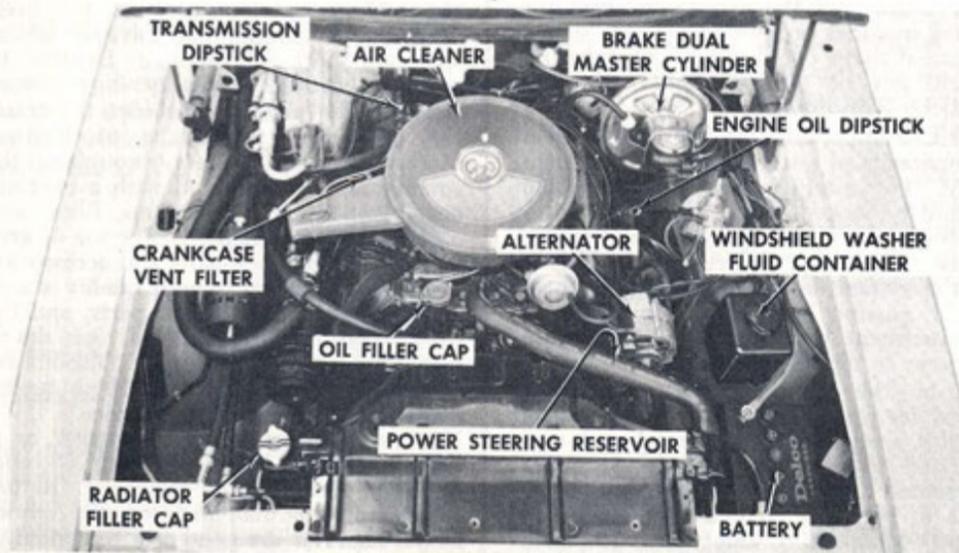
EACH reservoir with Delco Supreme No. 11 Hydraulic Brake Fluid or equivalent. When replacing the cap be sure to fasten the retainer securely.

## Differential

**Standard** — Check lubricant level at each engine oil change period and keep filled to level of filler plug hole with lubricant Part Number GM-1051022, GM-1050081 or SAE 90 multi-purpose type gear lubricant meeting Military Specification MIL-L21105B available at your Oldsmobile Dealer.

**Anti-Spin** — (requires special lubricant properties.) Check lubricant level at each engine oil change and add, as required, only with special lubricant Part Number GM-1051022 available at your Oldsmobile Dealer to assure proper function of the unit.

Periodic or seasonal changes are not recommended for the standard or Anti-Spin differential except under heavy duty operating conditions such as trailer hauling. For heavy duty operations, it is recommended that the lubricant be replaced every 12,000 miles.



## Engine Oil Recommendations

Use only engine oil which meets oil quality standard GM 6041-M. High quality oils which are intended for service MS and pass car markers' tests are of this quality. The oil change interval (see section on "Engine Oil Change Interval") and the new vehicle warranty are based on the use of oils that meet these requirements.

**NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of proper engine oils and oil change intervals are your best assurance of continued reliability and performance from your Oldsmobile engine.**

**Checking Oil Level** — The engine oil should be maintained at the proper level. The best time to check it is before operating the engine or as the last step in a fuel stop. This will allow the normal oil accumulation in the engine to drain back in the crankcase. To check the level, remove the oil level gauge rod (dip stick), wipe it clean and reinsert it for an accurate reading. The oil gauge rod is marked "FULL" and "ADD". The oil level should be maintained within the margin, neither going above the "FULL" line nor below the

"ADD" line. Reseat the gauge rod firmly after taking the reading.

**NOTE: The oil gauge rod is also marked, "Use GM 6041-M Quality MS Oil," as a reminder to use only high quality oils as prescribed under "Engine Oil Recommendations."**

**Supplemental Engine Oil Additives** — The regular use of supplemental additives is specifically not recommended and will increase operating costs. However, in cases of specific problems which may arise under certain conditions, additive supplements are available that can effectively and economically solve these problems without causing other difficulties. For example, if higher detergency is required to reduce varnish and sludge deposits resulting from some unusual operational difficulty, a thoroughly tested and approved concentrate — "GM Hi-Detergent Concentrate" — is available at your Oldsmobile Dealer. It is suggested that, in the event of an operational problem, you consult your dealer for advice.

**Ventilation Filter (All V-8)** — Remove the crankcase ventilation filter at each change of the oil filter (more often under dusty conditions), wash in kerosene, dip in engine oil, allow excess oil to drain and reinstall.

**Engine Oil Change Interval** — Change oil each 4 months. If more than 6,000 miles are driven in a 4-month period, change oil each 6,000 miles.

In certain types of service including:

- operation under dusty conditions,
- trailer hauling,
- extensive idling, or
- short trip operation at freezing temperatures (engine not thoroughly warmed up)

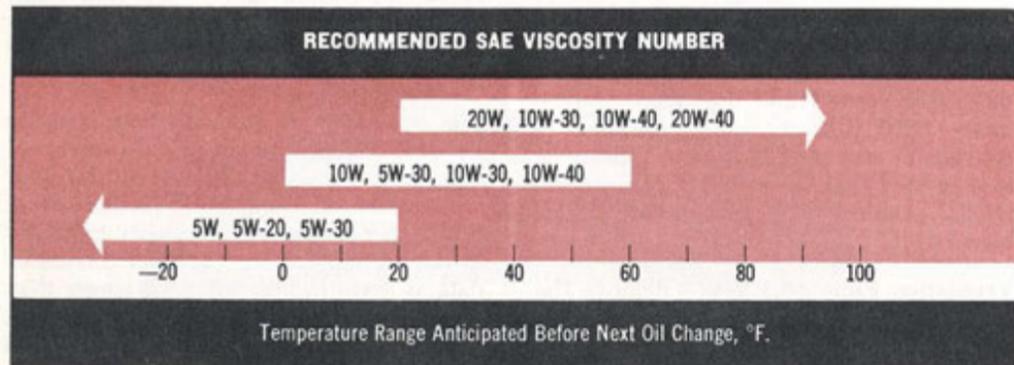
the oil change interval should not exceed 2 months, or 3,000 miles, whichever occurs first.

Operation in dust storms may require an immediate change of oil. See your Oldsmobile Dealer for advice on the frequency of oil and filter changes under unusual driving conditions.

The preceding recommendations apply to the first change as well as subsequent oil changes. The oil change interval for your Oldsmobile engine is based on the use of oils that meet the requirements indicated in the section on "Engine Oil Recommendations." Oil change intervals longer than those listed will result in serious reductions in engine life and may affect Oldsmobile's obligation under the provisions of the new vehicle warranty.

A high quality MS oil meeting General Motors Standard GM 6041-M was installed in your engine at the factory. It is not necessary to change this factory-installed oil prior to the recommended normal change period. However, the oil level should be checked more frequently during the break-in period since somewhat higher oil consumption is normal until the piston rings become seated.

**Recommended Viscosity** — The proper viscosity helps assure good cold and hot starting by reducing friction and thus increasing cranking speed. The following chart will serve as a guide for selecting the proper oil viscosity.



NOTE: • SAE 5W and 5W-20 oils are not recommended for sustained high speed driving.  
• SAE 30 oils may be used at temperatures above 60°F.

**Engine Oil Filter Replacement** — The engine oil filter should be replaced at the first oil change and every second oil change thereafter. This recommendation is based on the use of engine oils that meet the requirements indicated in the section on "Engine Oil Recommendations," and the use of a quality oil filter. AC Oil Filters provide maximum engine protection.

### Front Wheel Bearings

Clean, inspect and repack with a good high melting point wheel bearing grease only when brake maintenance necessitates removal of front drums or discs; otherwise, no periodic maintenance is required.

### Linkage and Body Lubrication

Every 12 months, the transmission and Cruise Control linkage, hood hinges, stops and latches should be lubricated. The following points, requiring body lubrication, should also be checked and lubricated every 12 months: hinges on all doors, fuel filler door, trunk lid, door lock striker, rotary lock, door jamb switches, seat adjusters and convertible top linkage.

### Power Steering System

Check the fluid level in the pump reservoir at each engine oil change period with fluid at operating temperature. Add fluid as necessary. Fill reservoir only to the mark. Use Power Steering Fluid, Part Number GM-1050017. If not available, use General Motors DEXRON® Automatic Transmission Fluid, Part Number GM-1050568. Replace fluid only if necessary to disassemble.

### Steering Linkage

The steering linkage (tie rods, relay rod and idler arm support) should be lubricated, using a water resistant E.P. chassis

lubricant that meets GM specifications 6031-M, every 12 months.

## Transmissions

**Automatic**—General Motors DEXRON® Automatic Transmission Fluid, Part Number GM-1050568, which has been especially formulated and tested for use in your automatic transmission, is recommended. Other Automatic Transmission Fluids identified with the mark DEXRON® are also recommended.

Check the fluid level at each engine oil change period. For an accurate fluid level check, drive the car several miles, making frequent starts and stops, to bring the transmission up to normal operating temperature (approximately 180-190°F). Park the car on a level surface, place selector lever in "Park" and leave the engine running. Remove dipstick, wipe clean, reinsert until the cap seats, remove and note reading. If fluid level is at or below the "ADD" mark, add sufficient fluid to raise the level to the "FULL" mark. One pint raises the level from "ADD" to "FULL". Do not overfill.

Under normal driving conditions, the transmission fluid should be changed every

24,000 miles. If your car is driven extensively in heavy city traffic during hot weather, or is used to pull a trailer, change fluid every 12,000 miles. Likewise, operators of cars in commercial use (such as taxicab, limousine or patrol car service) where the engine idles for long periods, should change fluid every 12,000 miles.

**Manual**—Check lubricant level at each engine oil change and add, as required, SAE 80 (preferred) part number GM-1051066 or SAE 90 multi-purpose gear lubricant meeting requirement of MIL-L-2105B. Periodic or seasonal changes are not recommended.

# GENERAL MAINTENANCE SERVICES

## Air Cleaner

The air cleaner is a disposable type element. Replace the element every 24 months or 24,000 miles, whichever occurs first. Do not wash, oil, or clean with air

**CAUTION:** In addition to its function of filtering air drawn into the engine through the carburetor, the air cleaner also acts as a flame arrester in the event the engine backfires. The air cleaner should be installed at all times unless its temporary removal is necessary for repair or maintenance of the vehicle, because backfiring may cause fire in the engine compartment.

hose. The air cleaner will require more frequent service under dusty conditions. Your Oldsmobile Dealer can advise you on the proper interval. For maximum protection specify an AC ACron air filter element.

## Air Conditioning

**IMPORTANT:** Have a thorough service inspection performed before operating the unit at the beginning of the cooling season or as otherwise indicated as follows:

- Check refrigerant and replenish as necessary. Over the period of a year, the system may lose up to a pound of refrigerant through normal operation.

- Check and adjust compressor belt tension.
- Remove road accumulation from condenser (bugs, etc.) at least every 2,000 miles.

## Brake Lining Inspection

Brake linings should be periodically inspected for wear by a qualified technician. The frequency of this inspection depends upon the driving conditions such as traffic or terrain, and also the driving techniques of individual owners. Your Oldsmobile Dealer is best qualified to advise you as to how often this inspection should be performed. The effectiveness of the parking brake is related to rear brake lining wear and should be adjusted at the time of lining inspection. If replacement parts are required, specify General Motors and United Delco parts.

## Carburetor

To meet Federal Exhaust Emission Requirements and to obtain maximum engine performance and fuel economy, carburetor idle speeds should be checked as recom-

mended in the Maintenance Schedule. If engine stalls, idles too fast or idles roughly, it should be adjusted. The carburetor fuel inlet filter should be replaced every 12 months, or more often, if necessary.

**NOTE:** Some engines will increase in idle speed during the break-in period. If this occurs, an idle speed adjustment should be made. Refer to label in engine compartment for correct specifications.

## Clutch Pedal Adjustment

The pedal should be adjusted from time to time so that it has free travel before the clutch actually begins to disengage. The pressure of one finger should be enough to push the pedal in about  $\frac{3}{4}$  inch to 1 inch before resistance of the clutch springs is felt. If there is little or no "pedal (clutch) lash," the clutch may be slipping and this will cause it to wear faster. If there is too much "pedal lash," the clutch may not disengage completely, causing gear shifting trouble. When "pedal lash" is less than  $\frac{1}{2}$  inch or more than 1 inch, an adjustment should be made by your Oldsmobile Dealer.

## Engine Cooling System



The inhibited year-around engine coolant, used to fill the cooling system at the factory is a high quality solution that meets General Motors Specification 1899-M. This factory-fill coolant solution is formulated to withstand two full calendar years of normal operation without draining or adding inhibitors, provided the same concentration of coolant is added if the system needs additional fluid between drain periods. The original factory-fill coolant provides freezing protection to  $-20^{\circ}\text{F}$  ( $-32^{\circ}\text{F}$  in Canada) and improved summer cooling.

Each year, the cooling system should be serviced as follows:

1. Wash the radiator cap thoroughly with clean water.
2. Check coolant level.
3. Check freeze protection.
4. Pressure test system. The system must hold 15 to 18 psi.
5. Inspect all hoses and clamps.

**CAUTION:** Radiator cap must be tight when reinstalled. Make certain red stripe on cap lines up with red stripes on radiator upper support.

Every two years, the cooling system should be serviced as follows:

1. Drain coolant, when hot, through the radiator drain valve.
2. Close valve and add sufficient plain water to fill system.
3. Run engine until normal operating temperature is reached.
4. Drain and refill the system as described in steps 1, 2, and 3 a sufficient number of times until the drained liquid is colorless.
5. Any hose showing an indication of leaking or being abnormally hard or soft should be replaced.
6. Allow system to drain completely and then close radiator drain valve tightly.
7. Add the necessary amount of high quality inhibited glycol base coolant meeting GM Specification 1899-M to provide the required freezing and corrosion protection (at least to  $-20^{\circ}\text{F}$ , or  $-32^{\circ}\text{F}$  in Canada).

8. Run engine until normal operating temperature is reached.
9. Check and adjust level of coolant after system has cooled sufficiently to remove radiator cap.

**NOTE:** Alcohol or methanol base coolants or plain water are not recommended for your Oldsmobile at any time.

It is the owner's responsibility to keep the freeze protection at a level commensurate with the temperatures which may occur in the area in which the vehicle will be operated. Regardless of whether freezing temperatures are or are not expected, cooling system protection should be maintained at least to  $-20^{\circ}\text{F}$  to provide

adequate corrosion and overheating protection. When coolant additions are required because of coolant loss or to provide additional protection against freezing at temperatures lower than  $-20^{\circ}\text{F}$  ( $-32^{\circ}\text{F}$  in Canada), a sufficient amount of an ethylene glycol base coolant meeting GM Specification 1899-M should be used.

**Thermostat**—The cooling system is protected and controlled by a thermostate installed in the engine coolant outlet to maintain a satisfactory operating temperature of the engine. This thermostat is designed for continuous use through both Winter and Summer and need not be changed seasonally. When replacement is necessary, specify a GM replacement part.

The following chart will serve as a guide in protecting the cooling system against freezing:

Quarts of Ethylene-Glycol Year Around Coolant		6 Qts. U.S. 5 Qts. Imp.	7 Qts. U.S. 5.75 Qts. Imp.	8 Qts. U.S. 6.75 Qts. Imp.	9 Qts. U.S. 7.5 Qts. Imp.
Temperature Protection Point	L-6 Without Air Cond.	$-32^{\circ}\text{F}$ .	$-55^{\circ}\text{F}$ .	—	—
	L-6 With Air Cond.	$-32^{\circ}\text{F}$ .	$-55^{\circ}\text{F}$ .	—	—
	V-8 Without Air Cond. (350 cu. in.)	—	$-24^{\circ}\text{F}$ .	$-42^{\circ}\text{F}$ .	—
	V-8 With Air Cond. (350 cu. in.)	—	$-21^{\circ}\text{F}$ .	$-37^{\circ}\text{F}$ .	—
	V-8 Without Air Cond. (455 cu. in.)	—	—	$-33^{\circ}\text{F}$ .	$-52^{\circ}\text{F}$ .
	V-8 With Air Cond. (455 cu. in.)	—	—	$-25^{\circ}\text{F}$ .	$-40^{\circ}\text{F}$ .

**CAUTION:** When an engine is at normal operating temperature or above, the internal pressure built up in the cooling system will blow out scalding fluid and vapors if the radiator cap is suddenly removed. To prevent loss of coolant and to avoid the danger of being burned, the coolant level should be checked or coolant added only when the engine is cool. To remove the cap when engine is cool, slowly rotate cap counterclockwise to detent (**DO NOT PRESS DOWN WHILE ROTATING**) wait until any residual pressure is relieved—as indicated by a hissing sound, then press down on the cap while continuing to rotate counterclockwise. Radiator pressure cap should be checked by a qualified technician every 12 months for proper operation and replaced as required with applicable A.C. type cap.

## **Distributor and Spark Plugs**

To meet Federal Exhaust Emission Requirements and to obtain maximum engine performance and fuel economy, engine tune-up operations should be performed at the service intervals recommended in

the Maintenance Schedule. This includes adjusting or replacing the distributor points, setting the timing, cleaning and gapping or replacing the spark plugs.

## **Energizer (Battery)**

It is important that the Energizer receive the following care:

1. Check the fluid level in each cell at each engine oil change or once each month, whichever occurs first, and more often in hot weather. If low, add distilled water to bring the level to the bottom of the split ring in the cell filler well. Do not overfill and never add any substance to the fluid except colorless, odorless drinking or distilled water.
2. Keep your Energizer, Energizer cable clamps, and Energizer hold-down bracket clean. Cleaning should be done every 12 months. Use a brush and a solution of ammonia and water or baking soda and water. Flush off with clear water. After cleaning, apply petroleum jelly or petrolatum to Energizer cable clamps and terminals to retard corrosion.
3. If Energizer performance becomes questionable, have your dealer give the Energizer a "421 Test."

For maximum wattage requirements specify a Delco Energizer at replacement time.

**BATTERY-GAS WARNING:** Since normal battery or Energizer chemical action generates hydrogen gas which is explosive when mixed with air, never expose the battery to an open flame or electric spark. Also, avoid getting battery fluid, which is a sulfuric acid solution, on skin, on clothing or other fabrics, or on painted surfaces. Eye protection should be worn while working on the battery for any reason.

Hydrogen gas may be released by a battery and is generally present when the battery has been, or is charging. If the booster battery is part of another vehicle's electrical system, the booster battery should be treated carefully when using jumper cables—follow exactly the proce-

**CAUTION:** Do not attempt to jump start a frozen battery. If a frozen battery is suspected, open and examine all fill vents on the battery. If ice can be seen, or the electrolyte fluid cannot be seen, do not attempt to start with jumper cables.

*ON THE FOLLOWING THREE PAGES ARE...*

# SOME IMPORTANT FACTS YOU SHOULD KNOW ABOUT AIR POLLUTION CONTROL SYSTEMS

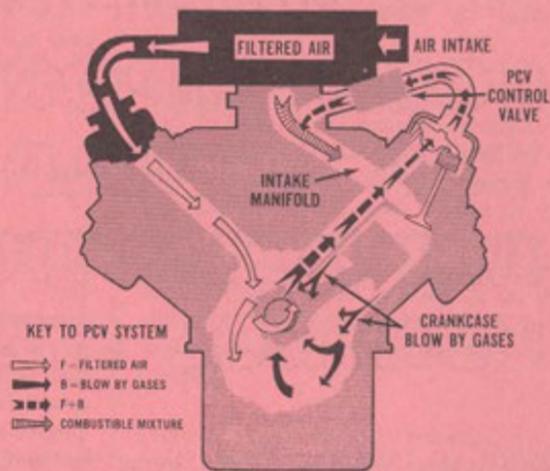
**BACKGROUND INFORMATION:** During the combustion process in an automotive engine, certain hydrocarbons in the fuel fail to burn completely and are discharged into the engine crankcase or exhaust system. Some carbon monoxide is also formed during the combustion process. This is also discharged into the exhaust system. On a per-car basis, concentrations of these combustion products are insignificant. Multiplied by millions of vehicles, however, crankcase and exhaust emissions combine with pollution products from other sources to contribute to the total air pollution problem. General Motors has, since the late 1940's, been a leader in research and development work related to vehicle emissions, and control systems have been developed which are highly effective in reducing undesirable crankcase and exhaust emissions. This work continues at an accelerated pace.

All new 1970 Oldsmobile passenger cars comply with all Federal and State laws and regulations for the Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines.

**YOUR ROLE IN CONTROLLING AIR POLLUTION:** It is very important that the engine in your Oldsmobile vehicle be serviced regularly in order to maintain its efficiency and minimize emissions in normal driving.

The following pages describe the emission control systems on Oldsmobile vehicles and provide information on their proper maintenance. By following these recommended maintenance services you will help assure cleaner air and will provide a better running, longer lasting engine for greater all-around satisfaction, economy and performance.

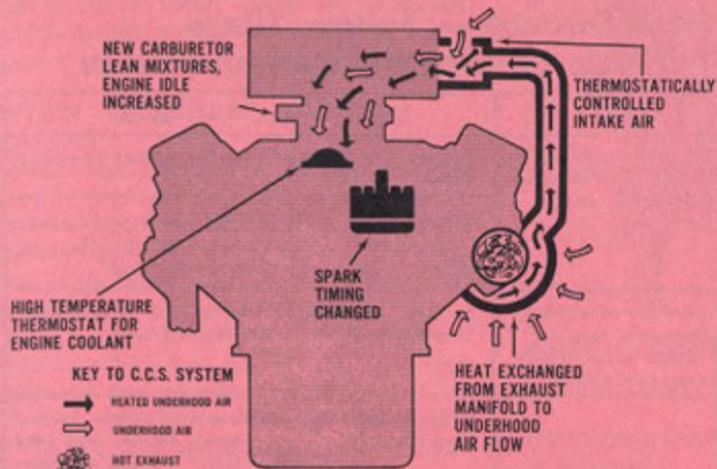
# What you should know about Air Pollution Control Systems on your Oldsmobile and the service they require



## \*Positive Crankcase Ventilation (PCV)

All General Motors vehicles are equipped with Positive Crankcase Ventilation — a system which permits no crankcase emission to be discharged into the ambient air. To function properly, the system depends on the PCV Valve (smog valve) which recirculates and burns blow-by gases inside the engine. This valve must be clean in order to maintain efficient engine operation. See service recommendations presented on last page of this section.

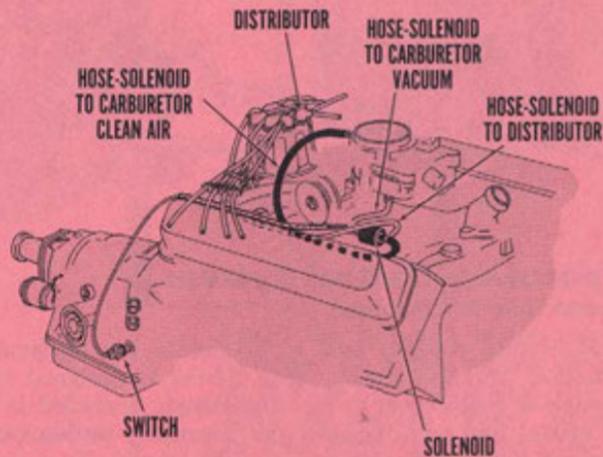
\*Systems illustrated on V-8 engines, 6-cylinder systems similar.



### \*Controlled Combustion System (CCS)

The Controlled Combustion System is designed to reduce exhaust air pollution by altering the combustion process. CCS includes a special air cleaner which incorporates thermostatic control of heated air to the carburetor, a special calibrated carburetor and distributor and related components. Complete effectiveness of the system, as well as full power and performance, depend upon proper engine maintenance. See service recommendations.

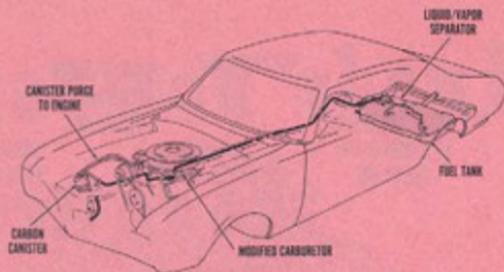
\*Systems illustrated on V-8 engines, 6-cylinder systems similar.



### \*Transmission Controlled Spark (TCS)

Transmission Controlled Spark is used to further reduce exhaust emissions by permitting vacuum spark advance during high gear operation only. TCS includes a solenoid which controls vacuum advance to the distributor in response to a signal from a switch operated by the transmission. The system is designed to provide the advantages of advanced spark timing when it is most needed. TCS requires no regular service.

\*Systems illustrated on V-8 engines, 6-cylinder systems similar.



## Evaporation Control System

(Required Only in California)

General Motors vehicles sold in California are equipped with an Evaporation Control System. This system is designed to minimize the escape of fuel vapors to the atmosphere. Included in the system are a special fuel tank, liquid-vapor separator, carbon canister, canister purge hoses, and carburetor modifications. Fuel vapors which would otherwise escape to the atmosphere are directed into the carbon canister. The carbon adsorbs the vapors and stores them. The vapor is removed from the canister during periods of engine operation as manifold vacuum draws the vapors into the engine and burns them. The Evaporation Control System requires only periodic canister filter servicing. See service recommendations.

**NOTE:** The General Motors Evaporation Control System is designed to control evaporation losses from your car under all normal conditions using 9 lb. Reid Vapor Pressure fuel specified by California test requirements. However, if you should use fuel of abnormally high volatility for existing temperature conditions, you may detect a gasoline odor during or after driving in heavy traffic. If you find this objectionable, you may obtain relief by using a lower volatility fuel.

## For Cleaner Air — Better Engine Performance — Follow These Periodic Service Recommendations

Interval	System	Service
At first oil change—4 mos. or 6,000 miles (whichever occurs first)	Positive Crankcase Ventilation (PCV)	Check for proper operation
	Controlled Combustion System (CCS)	Set idle speed and ignition timing to specifications on decal under hood.
At every other oil change—8 mos. or 12,000 miles (whichever comes first)	Positive Crankcase Ventilation (PCV)	Clean and re-oil crankcase ventilation filter.*
Every 12 mos. or 12,000 miles (whichever occurs first)	Positive Crankcase Ventilation (PCV)	Replace PCV valve. Inspect all hoses, fittings and inlet air filter. Replace or clean as necessary.*
	Controlled Combustion System (CCS)	Set idle speed and ignition timing to specifications on decal under hood.**
	Evaporation Control System	Replace filter in base of canister and inspect canister.*  <b>NOTE:</b> Never replace fuel tank cap with other than the specified cap.

\*Service filters more frequently under dusty conditions.

\*\*These adjustments are also included as part of the quality tune-up recommended at the same intervals.

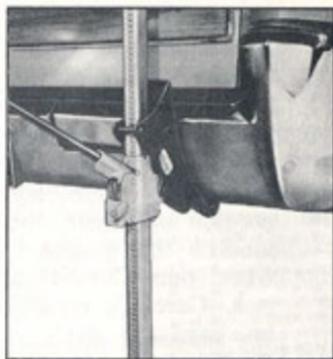
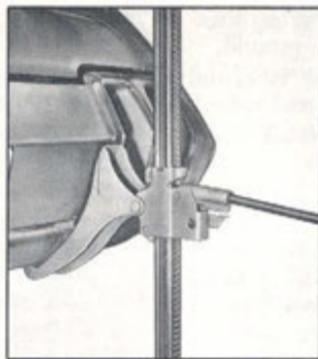
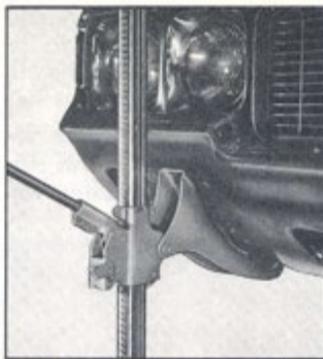
cedure outlined, being careful not to cause sparks which could ignite any hydrogen which might be present when attaching jumper cable clips to the two batteries.

#### WHEN ATTACHING JUMPER CABLES:

First, attach one end of one jumper cable to the positive terminal of the booster battery (identified by a "+" or "P" on the battery case, post, or clamp) and the other end of the same cable to the positive terminal of the discharged battery.

Second, attach one end of the remaining cable to the negative terminal ("- or "N") of the booster battery, and finally to the negative terminal of the discharged battery—taking care that none of the jumper clips contact each other. Reverse this sequence exactly when removing the jumper cables.

**CAUTION:** Any procedure other than the preceding could result in personal injury caused by electrolyte squirting out the battery vents, damage or injury due to battery explosion, and/or damage to the charging system of the booster vehicle's or immobilized vehicle's charging system.



### Jack Operation for Changing Wheels

Instructions for operating bumper jack are as follows:

1. Fully apply the parking brake and block wheel diagonally opposite from the jack position. With the Turbo Hydra-Matic transmission, place the selector lever in the "Park" position, and with the manual transmission, place the shift lever in the reverse gear position.
2. From the luggage compartment remove spare wheel and tire, jack, jack base and combination jack handle-wheel nut wrench. Place the jack lever in the "UP" position.
3. Attach the jack pad to the column assembly. On station wagons the jack lift pad has to pin positions. Use the upper pin marked "Front" to raise the front of the car and the lower pin marked "Rear" to raise the back of the car.
4. Position the jack lift pad so that the notch in the lift pad straddles or is next to the bumper bracket located directly behind the bumper bolts. The bumpers are notched for clearance in this area.
5. Remove wheel discs or hub caps using the flat end of the jack handle.
6. Loosen, but do not remove, wheel nuts by turning counterclockwise.

7. Insert jack handle in jack, grasp firmly, and jack the car off the ground.
8. Check stability of car on jack and then remove wheel nuts and wheel.
9. Install spare wheel and install wheel nuts finger tight.
10. Place jack control lever in "down" position and lower wheel until it just touches the ground. Fully tighten wheel nuts. Lower car and remove jack. Carefully install wheel discs or hub caps.
11. Replace jack and wheel in luggage compartment and tighten them securely to avoid rattles.

Illustrated instructions on jack operations and stowage are also provided on the underside of the trunk lid and on station wagons on the underside of the spare wheel cover.

**CAUTION:** Stand clear of, and never get beneath the car when it is supported only by a jack; the jack is designed only for use when changing wheels. Always use safety stand to support the car if it is necessary to get underneath. Do not run the engine for any reason with one rear wheel off the ground as the car may drive through the rear wheel remaining on the ground.

## Lights and Circuits

The headlamp circuit is protected by a circuit breaker in the light switch. An overload on the breaker will cause the lamps to "flicker" on and off. If this condition develops, have your headlamp wiring checked immediately.

**CAUTION:** It is the owner's responsibility to check all lamps, signaling systems and warning lights frequently to be sure they are working properly. Headlamp aim should also be checked periodically. It is important that any malfunctions be corrected promptly for your safety, and for the safety of others.

## Positive Crankcase Ventilation (P.C.V.) System

At the first oil change, the operation of the P.C.V. valve should be checked. The P.C.V. valve should be replaced and the system hoses and fittings inspected and cleaned or replaced, if necessary, every 12 months or 12,000 miles, whichever occurs first, more often under dusty driving con-

ditions. At replacement time specify an AC P.C.V. valve.

**NOTE:** If the positive crankcase ventilator valve should become clogged, the engine idle will be adversely affected. Therefore, if the engine idle becomes too slow or rough, the ventilator valve should be checked before any carburetor adjustments are made to compensate for the trouble.

## Tires

The factory installed tires on your car are selected to provide the best all around tire performance for all normal operation. When inflated as recommended in the tire inflation pressure table, they have the load carrying capacity to operate satisfactorily at all loads up to and including the full rated load specified in that table at all normal highway speeds. In addition, for those owners who prefer the utmost in comfort, optional tire inflation pressures may be used when loads of five passengers or less are carried. For the added convenience of owners, many Oldsmobile Dealers are equipped to handle tire warranty adjustments on certain makes of tires provided on 1970 Oldsmobile cars.

**Tire Traction**—A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel, or other material

is on the road surface. Driving practices and car speed should be adjusted to the road conditions. When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tire and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of traction, which adversely affects vehicle control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed:

1. Slow down during rainstorms or when roads are slushy.
2. Slow down if road has standing water or puddles.
3. Replace tires when tread wear indicators are visible.
4. Keep tires properly inflated.

For temporary assistance when traction is lost on ice or snow, the use of Liquid Tire Chain is recommended.

**Inflation Pressure** — The tire inflation pressures listed in the accompanying table have been selected to provide you with the best tire life and riding comfort over the full range of normal driving conditions. The use of improper tire inflation pressures can cause a serious reduction in tire life. Inflation pressures should be checked at least once a month (and preferably

oftener) to insure that the right amount of air is contained in the tires. Too little air pressure allows abnormal deflection of the tire causing excessive operating temperatures, while too much air pressure prevents normal deflection, making the cord body more vulnerable to road impacts.

RECOMMENDED TIRE INFLATION PRESSURES (Pounds Per Square Inch Cool)				
Models	Standard Inflation For All Loads Including Full Rated		Optional Inflation For Reduced Loads	
All Except Station Wagons Equipped With:	1 to 6 Passengers + 200 Lbs. Luggage (1100 Lbs. Load)		1 to 5 Passengers (750 Lbs. Maximum Load)	
L-6 or 350 V-8 Engine	Front 24 Lbs.	Rear 28 Lbs.	Front 22 Lbs.	Rear 22 Lbs.
455 V-8 Engine	26 Lbs.	28 Lbs.	24 Lbs.	24 Lbs.
Cutlass Station Wagons	1 to 6 Passengers + 300 Lbs. Luggage (1200 Lbs. Load)		1 to 5 Passengers (750 Lbs. Maximum Load)	
	Front 24 Lbs.	Rear 32 Lbs.	Front 22 Lbs.	Rear 25 Lbs.

1. Tire inflation pressures may increase as much as 6 pounds per square inch (psi.) when hot.

2. For continuous high speed operation (over 75 mph) increase tire inflation pressure 4 pounds per square inch over the recommended pressures up to a maximum of 32 pounds per square inch cold for load range B tires. Sustained speeds above 75 mph are not recommended when the 4 pounds per square inch adjustment would require pressures greater than the maximums stated in the chart.
3. **Cold tire inflation pressure:** after vehicle has been inoperative for 3 hours or more, or driven less than 1 mile. **Hot tire inflation pressure:** after vehicle has been driven 10 miles or more at 60-70 miles per hour.
4. Station Wagon loads should be distributed as far forward as possible.
5. Vehicles with luggage racks do not have a vehicle load limit greater than specified.
6. When towing trailers, the allowable passenger and cargo load must be reduced by an amount equal to the trailer tongue load on the trailer hitch.

**Optional Tires**—Only those tires of the size shown on the adjacent table are recommended for use on Oldsmobiles. Use of any other size of tire may seriously affect

TIRE USAGE			
Models	Equipment	Standard	Optional
All F-85 and Cutlass (Except Station Wagons)	L6 Engine	F78 x 14 Black	F78 x 14 White G70 x 14 White Letters G70 x 14 White Stripe 8.25 x 14 White (Export)
	V8 Engine	G78 x 14 Black	G78 x 14 White G70 x 14 White Letters* G70 x 14 White Stripe* 8.25 x 14 White (Export)
	442	G70 x 14 White	G70 x 14 White Letters G70 x 14 White Stripe 8.25 x 14 White (Export)
Cutlass Station Wagons	L6 Engine Except**	G78 x 14 Black	G78 x 14 White 8.25 x 14 White (Export)
	L6 Engine** and V8	H78 x 14 Black	H78 x 14 White 8.55 x 14 White (Export)

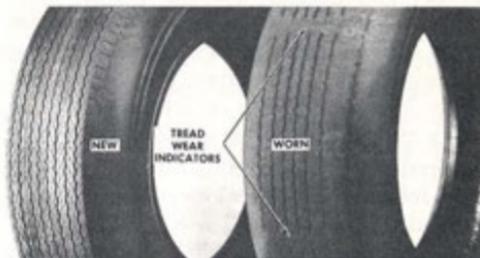
\*Coupes and Convertibles Only.      \*\*With Drop and Swing Tailgate Only.  
All Standard and Optional Tires are Load Range B, Fiberglass Belted Polyester Cord Except Export Tires Which are Nylon.

ride, handling, ground clearance, tire clearances, and speedometer calibration. To achieve best all around vehicle handling performance, fiberglass belted tires, radial ply tires, and bias ply tires should not be mixed on the same car.

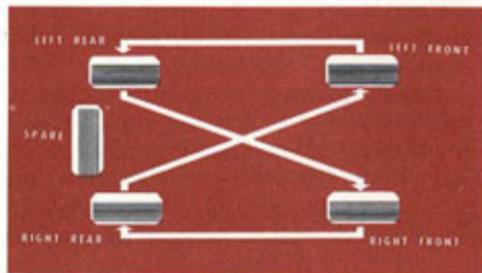
**Tread Wear Indicators** — The original

equipment tires on your Oldsmobile incorporate built-in tread wear indicators to assist you in determining when your tires have been worn to the point of needing replacement. These indicators are molded into the bottom of the tread grooves and will appear as 1/2 inch wide bands when tire tread depth becomes 1/16 of an inch.

When the indicators appear in two or more adjacent grooves, tire replacement due to tread wear is recommended.



**Tire Rotation Information** — To equalize wear it is recommended that the four road tires to be rotated every 6,000 miles in accordance with diagram. It is not necessary to rotate the spare. Upon rotation, tire pressures must be adjusted (front and rear) in accordance with the recommendations in the tire inflation pressure table.



## RECOMMENDED APPEARANCE CARE

### Acrylic Lacquer

Your Oldsmobile is finished with General Motors "Magic-Mirror" acrylic lacquer. This is a finish of maximum beauty in depth of color, gloss retention and durability.

### Aluminum Parts

The following aluminum parts should be cleaned frequently with lukewarm water and a mild soap or neutral detergent. In severe cases, road oil and tars may be removed from aluminum by using a chemical cleaner which is specified for use on acrylic finishes. Strong alkali soaps or abrasive cleaners (such as some insect removers or tire cleaners) should never be used. Do not permit the use of cleaning solutions containing caustic cleansing agents for the cleaning of your car.

- Most Bright Metal Upper Exterior Moldings
- All Bright Metal Interior Moldings

### Convertible Top

The folding top material will retain its luster and bright appearance with frequent washing using neutral soap suds, lukewarm water and a soft bristle brush. In the event heavy soilage or persistent stains are encountered, cleaning with a mild foaming cleanser, lukewarm water and a soft bristle brush will normally be sufficient. Regardless which cleaning method is used, a generous amount of clean rinse water must be applied to insure complete removal of soap suds from the top material and all adjacent body panels.

**CAUTION:** The folding top should never be subjected to volatile cleaners or household bleaches. Also, after cleaning is completed, the top material must be allowed to thoroughly dry before it is lowered.

The rear window in the back curtain may be cleaned in the same manner as all body

glass. Volatile cleaning agents must be avoided as these liquids could have a deteriorating effect should they come in contact with the back curtain or any painted finish.

### Chrome Plated and Stainless Steel Parts

Wash all bright metal parts frequently to alleviate the destructive forces of salt, calcium chloride, exhaust gases, industrial fallout and other corrosive elements. Then follow with a protective coating, such as a light application of a mixture of motor oil and kerosene (50% oil - 50% kerosene) on surfaces that are stain and rust free. If necessary, Liquid Glaze Cleaner and Wax may be used to remove rust from chrome plated parts before applying a protective coating. Proper protection is an owner responsibility and parts damaged by chemical action or abrasion are not considered to be defective under the terms of the Oldsmobile New Vehicle Warranty.

## **Rubber Mats**

Use only neutral soap and water for cleaning. Do not use any volatile type cleaners as damage to the mat color can result or the mat may become soft and gummy.

## **Glass and Mirrors**

Never wipe glass with dry paper or cloth or operate the wipers when the glass is dry. Dirt and insects can be removed with clear water or a mild liquid household cleaner. The use of harsh abrasives should be avoided. Periodic inspection and replacement of wiper blades will reduce the possibility of the windshield becoming scratched and will assure clear vision under adverse driving conditions.

## **Inside Car Care**

Dirt and dust that accumulate on the upholstery, vinyl covered trim parts and carpeting of your car should be removed regularly where necessary. For best results, stains on upholstery should be removed immediately. GM All Purpose Cleaner Concentrate with lukewarm water should be used to clean fabrics, coated fabrics and genuine leather. Only the suds should be applied, using a damp

cloth, sponge, or soft brush and rubbed gently. The suds should then be removed with a clean, damp cloth or sponge. Finally, the surface should be wiped with a soft cloth. In some cases it may be necessary to use either GM Upholstery Cleaner or GM Upholstery Spotter or equivalent as the label directs.

**CAUTION:** When cleaning interior fabrics or carpeting, do not use volatile cleaning solvents such as acetone, lacquer thinners, carbon tetrachloride, enamel reducers, nail polish remover, or laundry soaps, bleaches and reducing agents. **NEVER USE GASOLINE OR NAPHTHA FOR ANY CLEANING PURPOSE.**

## **Vinyl-Covered Roof Tops**

Ordinarily plain water is sufficient to clean the optional vinyl tops when the car is washed frequently. However, to remove accumulated dirt and grime, use a soft, natural bristle brush with GM All Purpose Cleaner Concentrate and lukewarm water. Scrub in all directions, covering a 2-foot area at a time. Carefully, overlap each section to avoid streaking and then rinse with plenty of water to remove all suds and dirt.

## **Touch-Up Paint**

Nicks and chips in paint surfaces should be touched up before weathering action begins. The best time to detect them is right after the car has been washed. Touch-Up Paint to match your car's color is available at most Oldsmobile Dealers.

## **Undercoating**

When applying this added protection, the undercoating material should not be applied to any moving or rotating parts. It should also be kept off air conditioner fittings and lines, body drainholes, and exhaust systems.

## **Washing**

The best way to preserve the finish is to keep it clean. Normally, only frequent washings are required to maintain its original beauty. Wash the car with either cold or warm (never hot) water, not in the direct rays of the sun and not while the sheet metal surfaces are hot. Never wipe dirt from dry painted surfaces because this may scratch the finish. The use of strong soaps and chemical detergents should be avoided and in any event,

cleaning agents should be promptly flushed from the surface and not allowed to dry or they may streak the finish.

**NOTE:** Some chemical cleaners used for removing road oil and tars from painted surfaces are detrimental to acrylic finishes. When purchasing a cleaner, make sure that the instructions on the container specifically state that the contents can be used on an acrylic finish.

## **Waxing and Polishing**

Even though the acrylic paint on your car is durable, under certain conditions it may be advisable to wax or polish your car to provide added protection. Calcium chloride and other salts, road oil and tar, tree sap, chemicals from factory chimneys and other foreign matter may damage any known automobile finish if allowed to remain in contact with the paint film. Prompt washing may not thoroughly remove these deposits. This is particularly true in geographical areas where these exposure conditions are severe. Properly applied polishes and waxes of known quality will provide the best protection. Most Oldsmobile Dealers offer polishes or waxes which can be of real value in maintaining a good paint finish.

## **OWNER SAFETY CHECKS**

Take a few minutes, periodically, to check the items listed below for proper operation. See "Maintaining Safety and Dependability" section for instructions on the recommended method of checking. Any deficiencies noted should be corrected without delay.

- |   |   |
|---|---|
| <input type="checkbox"/> Anti-Theft Lock              | <input type="checkbox"/> Hood Latches                       |
| <input type="checkbox"/> Defrosters                   | <input type="checkbox"/> Fuel, Water and Oil Lines, etc.    |
| <input type="checkbox"/> Starter Safety Switch        | <input type="checkbox"/> Parking Brake                      |
| <input type="checkbox"/> Transmission Shift Indicator | <input type="checkbox"/> Lights and Hazard Warning Flashers |
| <input type="checkbox"/> Horn                         | <input type="checkbox"/> Seat Belts                         |
| <input type="checkbox"/> Seat Back Latches            | <input type="checkbox"/> Tire Inflation                     |
| <input type="checkbox"/> Rearview Mirrors and Visors  | <input type="checkbox"/> Windshield Wipers                  |
| <input type="checkbox"/> Door Latches                 | <input type="checkbox"/> Windshield Washers                 |



# TECHNICAL DATA

## DIMENSIONS (IN INCHES)

SERIES	TREAD		WHEEL BASE	OVERALL LENGTH	OVERALL WIDTH
	Front	Rear			
Coups and Convertibles..	59.0	59.0	112.0	203.2	76.2
Sedans.....	59.0	59.0	116.0	207.2	76.8
Station Wagons.....	59.0	59.0	116.0	213.2	76.8

## CAPACITIES

COOLING SYSTEM	UNITS	U. S. MEASURE	IMPERIAL MEASURE
L-6 Engine.....	Qts.	12.0	10.0
With Air Conditioning.....	Qts.	12.0	10.0
350 V-8 Engine.....	Qts.	15.0	12.0
With Air Conditioning.....	Qts.	16.0	13.0
455 V-8 Engine.....	Qts.	16.0	13.0
With Air Conditioning.....	Qts.	17.0	14.0
(Without Heater Subtract ¼ of a Quart)			
DIFFERENTIAL.....	Pts.	3.7	3.0
ENGINE CRANKCASE			
Drain and Refill.....	Qts.	4.0	3.25
Unit Disassembled or When Changing Oil Filter	Qts.	5.0	4.25
FUEL TANK			
All Except Station Wagons.....	Gals.	20.0	16.75
Station Wagons.....	Gals.	22.5	18.75

## CAPACITIES (continued)

AUTOMATIC TRANSMISSION	UNITS	U. S. MEASURE	IMPERIAL MEASURE
Turbo Hydra-Matic 455			
Drain and Refill.....	Qts.	3.0	2.5
After Complete Overhaul.....	Qts.	10.0	8.3
Turbo Hydra-Matic 350			
Drain and Refill.....	Qts.	3.0	2.5
After Complete Overhaul.....	Qts.	10.0	8.3

## MANUAL TRANSMISSION

3-SPEED (Except Floor Shift).....	Pts.	3.55	3.0
3-SPEED (Floor Shift and 442 Models).....	Pts.	4.50	3.75
4-SPEED.....	Pts.	2.25	1.75

## POWER STEERING

Pump Only.....	Qts.	.6	.45
Complete System.....	Qts.	1.2	.9

Radiator Cap Pressure Specification..... 15-18 psi

Thermostat Temperature Specification..... 195°F.

**TIRE SIZES AND PRESSURES**—See Charts in the Tire Section of This Book.

## RECOMMENDATIONS FOR FILTERS, P.C.V. VALVES, ETC.

Item	Usage	Recommendation
Engine Oil Filter	All V-8 250 L-6 Engine	AC Type PF 30 AC Type PF 25
Engine Air Cleaner Element	250 L-6 Engine V-8 2 Bbl. Engines V-8 4 Bbl. Engines	AC Type A 169CW AC Type A 331C AC Type A 212CW
Carburetor Fuel Filter	250 L-6 Engine All V-8 Engines	AC Type GF 427 AC Type GF 441
Positive Crankcase Ventilator Valve	250 L-6 Engine All V-8 Engines	AC Type CV 723C AC Type CV 679C
Crankcase Ventilation Filter	All	No Replacement Required



### Identification Numbers

**Vehicle Identification Number** — This is the legal number of the vehicle which is embossed on a plate attached to the top of the instrument panel on the driver's side and is easily seen through the windshield from outside the car. It is also imprinted on the Protect-O-Plate and appears on the Vehicle Certificates of Title and Registration.

**Body Identification Number** — The body style number, body serial number, trim number and paint code are shown on a plate affixed to the left side of the cowl and can be seen when the hood is raised.

## ENGINE SPECIFICATIONS

ENGINE	250 L-6 1 Bbl.	350 L.C. 2 Bbl.	350 H.C. 4 Bbl.	350 H.C. Performance	455 H.C. 2 Bbl.	455 H.C. 4 Bbl.	455 H.C. Performance
Bore and Stroke	3.87 x 3.53	4.057 x 3.385	4.057 x 3.385	4.057 x 3.385	4.126 x 4.250	4.126 x 4.250	4.126 x 4.250
Compression Ratio	8.5 to 1	9.0 to 1	10.25 to 1	10.25 to 1	10.25 to 1	10.25 to 1	10.25 to 1
Cubic Inch Displacement	250	350	350	350	455	455	455
Horsepower (Taxable)	36	52.7	52.7	52.7	54.4	54.4	54.4
Horsepower (Brake)	155 @ 4200 RPM	250 @ 4400 RPM	310 @ 4800 RPM	325 @ 5400 RPM	320 @ 4200 RPM	365 @ 5000 RPM	370 @ 5400 RPM
Firing Order	1-5-3-6-2-4	1-8-4-3-6-5-7-2	1-8-4-3-6-5-7-2	1-8-4-3-6-5-7-2	1-8-4-3-6-5-7-2	1-8-4-3-6-5-7-2	1-8-4-3-6-5-7-2
Code Number Prefix	VB, VF	QA, QJ, QI	QN, QP, QV	QX, QD	TY, TX	TW, TV, TU	TT, TS
AC Spark Plug Type	SEE TUNE-UP LABEL UNDER CAR HOOD						
Spark Plug Gap							
Distributor Point Dwell							
Ignition Timing							
Energizer (Battery) (Ampere Hours/Number Plates)	Delco Y-55 44/54	Delco R-59 61/66	Delco R-59 61/66	Delco R-59 61/66	Delco R-71S 73/90	Delco R-71S 73/90	Delco R-71S 73/90
Fuel Recommended	Regular	Regular	Premium	Premium	Premium	Premium	Premium

## LAMP SPECIFICATIONS

### INTERNAL LAMPS

USAGE	QUANTITY	LAMP NO.
Instrument Cluster Lighting—Speedometer.....	2	194
Instrument Cluster Lighting—Gas Gauge and Tell Tale 3*	3	
Turn Signal Indicator.....	2	
High Beam Indicator.....	1	
Generator Warning.....	1	161
Brake Warning.....	1	
Instrument Panel Floodlights.....	4	
Oil Pressure Warning (Exc. Rocket Rally Pac).....	1	168
Engine Temp. Indicator (Exc. Rocket Rally Pac).....	1	
Clock-Tachometer (Rocket Rally Pac).....	2	
Ash Tray Light.....	1	1445
Radio Dial.....	1	
HMT Shift Indicator—Console Only.....	1	
Console Compartment.....	1	1895
Glove Box.....	1	212
Electric Clock (Exc. Rocket Rally Pac).....	2	1893
Map Lamp.....	1	563
Mirror Map Light.....	1	

USAGE	QUANTITY	LAMP NO
Dome Lamp.....	1	211
Rear Quarter Lamps.....	2	212
Courtesy Light.....	2	90
Armrest.....	2	
Courtesy Light—Console.....	1	97
Trunk.....	1	631
Underhood Light.....	1	

### EXTERNAL LAMPS

License.....	1	97
Parking and Turn Signals.....	2	1157NA
Tail and Stop.....	2	1157
Back Up Lamps.....	2	1156
Headlamp—Upper Beam.....	2	L-4001
Headlamp—Upper and Lower Beam.....	2	L-4002
Side Marker—Rear (All Except Station Wagon).....	2	194
Side Marker—Front.....	2	194

\*Rocket Rally Pac Gages and Tell Tale uses 2 No. 168 bulbs.

When replacement is necessary, specify AC-Guide Lamps.

## FUSE SPECIFICATIONS

The following fuses are located in the fuse block on the front passenger compartment wall adjacent to the steering column. Do not use fuses of higher amperage rating than those specified below.

Usage	Name of Fuse Circuit on Fuse Block	Fuse Type and Amperes
Radio..... Tape Player.....	Radio	AGC-10
Turn Signal..... Back-Up Lamps..... Cruise Control.....	Dir. Sig. Back Up	SFE-20
Tail Lamps..... Side Marker Lamps..... License Lamp..... Underhood Lamp.....	Tail	SFE-20
Stop Lamps..... Hazard Warning Lamps.....	Stop-Haz.	SFE-20
Instrument Panel Lamps.....	Inst. Lps.	SFE-4
Windshield Wipers.....	Wiper	AGC-25
Heater..... Air Conditioner..... Rear Window Defogger.....	Heater-A/C	AGC-25
Transmission-Control..... Parking Brake Lamp.....	Gauges-Trans.	AGC-10

Usage	Name of Fuse Circuit on Fuse Block	Fuse Type and Amperes
Electric Windows..... Mirror Map Lamp.....	Pwr. Rly. & Accsy.	SFE-20
Clock..... Cigar Lighter..... Dome Lamp..... Courtesy Lamps..... Trunk Lamp..... Glove Box Lamp.....	Clk., Ltr.-Ctsy.	AGC-25

The following circuits employ circuit breakers or have fuses located as indicated:

Circuit	Breaker/Fuse	Location
Headlamps.....	Circuit Breaker	Built-In Light Switch
Directional Signal Flasher...	GM Part Number 383638 or 383639 (Exc. Station Wagon and Cutlass Supreme) GM Part Number 383636 or 383637 (All Station Wagons and Cutlass Supreme)	In Clip Behind Instrument Panel
Hazard Warning.....	GM Part Number 3904868	In Fuse Block
Air Conditioner-"Hi".....	AGA 30	In Harness

# INDEX

- Acrylic Lacquer ..... 49
- Air Cleaner ..... 41
- Air Conditioning  
Maintenance ..... 41  
Operation ..... 30
- Aluminum Parts ..... 49
- Anti-Theft Steering Column Lock 4
- Ash Trays ..... 14
- Ball Joints ..... 38
- Brakes  
Automatic Adjusters ..... 15  
Lining Inspection ..... 42  
Maintenance ..... 42  
Master Cylinder ..... 38  
Parking and Release ..... 15  
Power Operation ..... 32  
Systems ..... 14
- Capacities ..... 53
- Car Care, Inside ..... 50
- Carburetor ..... 42
- Chrome-Plated Parts ..... 49
- Cigarette Lighter ..... 14
- Clock ..... 29
- Clutch Pedal Adjustment ..... 42
- Convertible Tops  
Care ..... 49  
Operation ..... 15
- Cooling System ..... 42
- Cruise Control ..... 29
- Differential  
Anti-Spin ..... 29  
Maintenance ..... 38
- Dimmer Switch ..... 17
- Distributor ..... 44
- Emergency Starting ..... 7
- Energizer (Battery) ..... 44
- Engine Oil ..... 39
- Engine Specifications ..... 55
- Exhaust Gas Warning ..... 6
- Filters, Recommendation ..... 54
- Fuel  
Filler Tube Location ..... 10
- Gauge ..... 14
- Requirements ..... 9
- Fuse  
Block Location ..... 16  
Specifications ..... 57
- Glass and Mirrors ..... 50
- Glove Box Latch ..... 16
- Guardian Maintenance ..... 37
- Hazard Warning Flasher ..... 17
- Headlight and Instrument Panel  
Light Switch ..... 16
- Heating and Defrosting  
With Air Conditioning ..... 30  
Without Air Conditioning ..... 18
- Hood  
Latch Operation ..... 16  
Lock ..... 32
- Horn Control, Rim Activated ..... 35
- Identification Numbers ..... 54
- Instruments, Location ..... 12
- Jack Operation ..... 45
- Keys ..... 4
- Lights  
Brake Warning ..... 13  
Charging System ..... 13  
Courtesy and Dome ..... 29  
Oil Pressure ..... 13  
Rear View Mirror Maplight ..... 32  
Specifications ..... 56  
Temperature Indicators ..... 14
- Locks and Latches  
Manual ..... 4  
Power ..... 32
- Lubrication (Chassis and Body).... 40
- Mirrors  
Inside Rear View ..... 25  
Remote Control ..... 33
- Night-Watch Control ..... 31
- Odometer ..... 14
- Operating Speeds ..... 9
- Operation in Foreign Countries... 10



## OWNER RELATIONS

The satisfaction and goodwill of the owners of Oldsmobile products are of primary concern to your Dealer and Oldsmobile Division. Normally, any problems that arise in connection with the sales transaction or the operation of your car will be handled by your Dealer's Sales or Service Departments. It is recognized, however, that despite the best intentions of everyone concerned, misunderstandings will sometimes occur. If you have a problem that has not been handled to your satisfaction through normal channels, we suggest that you take the following steps:

**STEP ONE** — Discuss your problem with a member of dealership management. Frequently, complaints are the result of a breakdown in communications and can quickly be resolved by a member of the dealership management. If the problem already has been reviewed with the Sales Manager or Service Manager, contact the Dealer himself or the General Manager.

**STEP TWO** — Contact the Oldsmobile Zone Office closest to you listed on the opposite page. When it appears that your problem cannot be readily resolved by the dealership without additional assistance, the matter should be called to the attention of the

Zone's Service Department and the following information provided:

- Your name, address, telephone number
- Year and model car
- Dealer's name and location
- Vehicle's delivery date and mileage
- Nature of problem

**STEP THREE** — Contact the Owner Relations Manager, Oldsmobile Central Office, Lansing, Michigan 48921. If after an additional review of all facts involved he feels that some further action can be taken, he will so instruct the Zone. In any case, your letter will be acknowledged providing Oldsmobile's position in the matter.

When contacting the Zone or Central Office, please bear in mind that ultimately your problem likely will be resolved in the dealership, utilizing the Dealer's facilities, equipment and personnel. It is suggested, therefore, that you follow the above steps in sequence when pursuing a problem.

Your purchase of an Oldsmobile product is greatly appreciated by both your Dealer and Oldsmobile. It is our sincere desire to assist you in any way possible to assure your complete satisfaction with your vehicle.

*All information contained in this booklet is the latest product information available at the time of printing. The right is reserved to make changes at any time without notice.*

## OLDSMOBILE ZONE OFFICES

When calling for assistance, please  
ask for the Zone Service Department.

Atlanta, Georgia 30303  
Peachtree Center Bldg.  
230 Peachtree St., N.W.  
(404) 523-6961

Boston, Mass. 02116  
30 St. James Ave.  
(617) 482-9760

Buffalo, New York 14203  
Tishman Building  
10 Lafayette Sq.  
(716) 854-3370

Charlotte, N. C. 28203  
1051 E. Morehead St.  
Suite 100  
P.O. Box 3488  
(704) 334-0847

Chicago (Park Ridge), Ill. 60068  
Executive Plaza  
205 West Touhy Ave.  
(312) 698-2211

Cincinnati, Ohio 45202  
Kroger Building  
1014 Vine Street  
(513) 421-2270

Cleveland, Ohio 44116  
Park-West Bldg.  
20545 Center Ridge Rd.  
(216) 333-9484

Dallas, Texas 75201  
Southland Center  
(214) 748-7971

Denver, Colorado 80202  
1212 Security Life Bldg.  
1616 Glenarm Place  
(303) 292-4900

Detroit (Southfield), Mich. 48075  
Northland Towers, Suite 700  
15565 Northland Drive  
(313) 357-1980

Houston, Texas 77025  
Fannin Bank Bldg.  
1020 Holcombe Blvd.  
(713) 748-2260

Indianapolis, Indiana 46204  
Fidelity Building  
Monument Circle  
(317) 634-5377

Jacksonville, Florida 32207  
Gulf Life Tower, Suite 1742  
Gulf Life Drive  
(904) 398-6401

Kansas City, Mo. 64199  
Commerce Towers Bldg.  
P.O. Box 13247  
(816) 421-6414

Los Angeles (Woodland Hills),  
California 91364  
6355 Topanga Canyon Blvd.  
(213) 884-9400

Memphis, Tennessee 38111  
Century Building  
3294 Poplar Ave.  
(901) 323-4566

Milwaukee, Wisconsin 53226  
Mayfair Plaza  
2421 North Mayfair Rd.  
(414) 778-0130

Minneapolis, Minn. 55435  
Pentagon Office Park  
4640 W. 77th Street  
(612) 920-3200

Newark (East Orange),  
N. J. 07018  
Liberty Mutual Ins. Bldg.  
240 S. Harrison  
(201) 677-1770

New York, New York 10022  
General Motors Bldg.  
767 Fifth Ave.  
(212) 486-2268

Oakland (Walnut Creek),  
California 94596  
Lincoln-Broadway Two Bldg.  
1501 North Broadway  
(415) 933-8282

Oklahoma City, Okla. 73105  
First Fidelity Ins. Bldg.  
4400 North Lincoln Blvd.  
(405) 424-4311

Omaha, Nebraska 68131  
4460 Farnam St.  
(402) 558-2050

Philadelphia (Bala-Cynwyd),  
Pennsylvania 19004  
Barclay Building  
City Line and Belmont Aves.  
(215) 839-3890

Pittsburgh, Pennsylvania 15222  
1 Gateway Center  
(412) 261-0176

Portland, Oregon 97204  
Executive Building  
811 S.W. 6th Ave.  
(503) 233-7253

St. Louis, Missouri 63105  
Clayton Inn Office Bldg.  
Suite 1100  
230 S. Bemiston Ave.  
(314) 721-4508

Washington (Silver Spring),  
Maryland 20910  
Summit Office Bldg.  
8555 16th St.  
(301) 585-9832

## GENERAL MOTORS PRODUCTS OF CANADA ZONE OFFICES

Ottawa 8, Ont. Moncton, N. B.  
875 Belfast Road 653 St. George Street  
(613) 237-5051 (506) 382-1681

London, Ont. Toronto 1, Ont.  
Box 5412 - 68 Richmond Street, E.  
Terminal "A" (416) 362-3494  
(519) 455-2400

Calgary 2, Alta. Regina, Sask. Vancouver 4, B. C.  
P.O. Box 2510 581 Park Street 900 Terminal Avenue  
(403) 243-4621 (306) 543-2224 (604) 684-9444

Winnipeg 14, Man. Montreal, Que.  
1345 Redwood Avenue 5000 Trans-Canada Highway,  
(204) 582-2371 Pointe Claire, Quebec  
(514) 697-4940

## MEXICO

General Motors de Mexico S.A. de C.V.  
Av. Ejercito Nacional No. 843  
Mexico 5, D. F.  
254-53921

Your Investment Deserves the Best Protection



Insist on Olds Guardian Maintenance Service

CREDIT - OLDSMOBILE  
HISTORY CENTER

000025244  
24690  
920 TOWNSEND ST.  
LANSING, MI 48221

**SUPER-TUNING AND BLUEPRINTING SPECIFICATIONS**

**FOR 1970 OLDSMOBILE 350 AND 455 CU. IN.**

**ENGINES AND "W-MACHINE" OPTIONS**

**Spring, 1970**

## A. SUPER-TUNING

Super-tuning is a term that means bringing every component within the engine up to its peak. Many times off-road operation calls for different settings and adjustments than are proper for street use. A well tuned engine requires proper ignition and carburetor settings, a good performing valve train, and non-restrictive air cleaner and exhaust system.

### Ignition

Stock distributors on each of the W-Machines have mechanical advance curves which parallel best spark timing. The mechanical advance curves, vacuum advance curves, and initial timing settings on all models are selected to give best performance with the normal carbon build-up and street equipment. For off-road use in a car where the amount of idle and low speed operation will be held to a minimum, higher timing settings may be used. However, precautions must be taken:

1. Disconnect vacuum advance hose at the distributor and plug the hose. Leave the distributor vacuum connection open. This will preclude road load detonation, which must be avoided for long engine life.
2. Use super premium fuels to further avoid detonation.
3. Be conservative. Increase timing in small steps, listening for any detonation ("knock").

The important area to watch in changing timing is the advance above 4000 RPM (with vacuum disconnected). For off-road use, timing should be set to give 35° advance BTC above 4000 RPM. Advance beyond 35° should be done in small steps against a timer and in conjunction with changes in carburetor jetting, slight richening until ultimate potential is realized.

To set timing accurately above 4000 RPM, a new set of scribe marks will have to be added to the balancer, since the normal timing tab stops at 15° BTC. These marks must be made on the balancer below the present mark (clockwise from the front of the car). Timing can then be read using the 0° mark on the tab and the new marks on the balancer, while revving the engine to 4000 RPM momentarily.

**CAUTION:** DO NOT LOOSEN THE DISTRIBUTOR HOLD DOWN BOLT AND ADJUST WHILE REVVING THE ENGINE. MOVE THE DISTRIBUTOR A SMALL AMOUNT, TIGHTEN, AND REV TO 4000 FOR 2-3 SECONDS.

Scribe the marks clockwise from the present mark per the following chart:

<u>Degrees BTC</u>	<u>350 Engines</u>	<u>400 &amp; 455 Engines</u>
30°	1 7/8 inches	1 11/15 inches
35°	2 3/16 inches	1 31/32 inches
40°	2 1/2 inches	2 9/32 inches

- B. The production method of setting the timing may be used if the mechanical advance curve is known (check curve on a sun machine). The following chart lists the production distributors with settings, along with suggested settings to achieve 35° BTC above 4000 RPM.

1969 --- W30: Distributor Number 1111933

- Production initial setting of 14° BTC at 1250 RPM provides 27° BTC timing above 4000 RPM.
- Change to 15° BTC at 500 RPM or less, or 17° BTC at 800 RPM to provide 35° above 4000 RPM.

1969 --- W31: Distributor Number 1111930

- Production initial setting of 12° BTC at 1000 RPM provides 30° BTC timing above 4000 RPM.
- Change to 15° BTC at 800 RPM to provide 35° above 4000 RPM.

1969 --- W32: Distributor Number 1111989

- Production initial setting of 14° BTC at 850 RPM provides 37° BTC timing above 3000 RPM.

1970 --- W30 SMT: Distributor Number 1111977

- Production initial setting of 12° BTC at 850 RPM provides 34° BTC timing above 4000 RPM.
- Change to 13° BTC at 850 RPM to provide 35° above 4000 RPM.

1970 --- W30 AMT: Distributor Number 1111979

- Production initial setting of 10° BTC at 850 RPM provides 33° BTC timing above 3000 RPM.
- Change to 12° BTC at 850 RPM to provide 35° above 3000 RPM.

1970 --- W31: Distributor Number 1111975

- Production initial setting of 14° BTC at 1100 RPM provides 30½° BTC timing above 4000 RPM.
- Change to 15° BTC at 800 RPM to provide 35° above 4000 RPM.

1970 --- F85, 4-BBL (310 hp): Distributor Number 1111975

- Production initial setting of 10° BTC at 1100 RPM provides 26½° BTC timing above 4000 RPM.
- Change to 15° BTC at 800 RPM to provide 35° above 4000 RPM.

1970 --- 4-4-2 (Except W30): Distributor Number 1111982

- Production initial setting of 12° BTC at 1100 RPM provides 30° BTC timing above 4000 RPM.
- Change to 15° BTC at 600 RPM to provide 35° above 4000 RPM.

The timing indicator (tab) is marked - 4°, -2°, 0°, 2°, 4°, 6°, 8°, 10°, etc. The top edge of the tab is 14°-15° BTC.

To insure against point bounce with high RPM usage, double springing of the production point springs may be done. The best method is to use Corvette Delco points No. 1966294. These points are good to 7000 RPM.

C. CARBURETION

Carburetors are calibrated for best full throttle as well as part throttle mixtures and street performance. The best starting point for off-road use is production specifications. However, because of varying climatic conditions and the fact that exhaust headers will be used and part throttle driveability need not be considered, a number of changes may be tried.

First, production specifications are as follows:

MODEL	PART # ON CASTING	PRIMARY JET	PRIMARY METERING ROD	SECONDARY METERING ROD	SECONDARY ROD END DIAPHRAGM
1970 W30	7040251	.070	Yes	AU	.053
	7040256	.058	No	AU	.053
	7040258	.070	Yes	AU	.053
1970 W31	7040255	.057	No	AU	.053

<u>MODEL</u>	<u>PART #</u>	<u>PRI. JET</u>	<u>PRI. MET. ROD</u>	<u>SEC. MET. ROD</u>	<u>SEC. ROD DIA.</u>
1970 365hp	7040251	.070	Yes	AU	.053
	7040257	.070	Yes	AU	.053
	7040253	.069	Yes	AT	.067
1970 310hp	7040250	.070	Yes	AT	.067
	7040253	.069	Yes	AT	.067
1969 W30	7029254	.075	Yes	AU	.053
1969 W31	7029255	.074	Yes	AU	.053
1969 W32	7029251	.070	Yes	AU	.053

### Operation

Normal driving up to  $\frac{1}{2}$  throttle is done with the primary side of the carburetor. Fuel is controlled by the size of the primary jet and large end of the tapered primary rod.

At full throttle, the fuel is controlled by the primary jet and small end of the primary rod plus the addition of fuel through the secondary jet and rod.

The position of the secondary rod relative to the jet is controlled by the angle of the secondary air valve. Therefore, the full throttle fuel rate as well as air flow is controlled by the air valve.

Air valve position or angle is controlled by air flow pulling against the air valve spring. The air valve wrap is the term that describes the amount of pre-load adjusted into the spring. Earlier opening of the air valve naturally allows more air flow; but if opened at too low a RPM, might give improper fuel mixtures and distribution, resulting in a loss of low end torque or a "bog."

Production settings allow the air valve to begin opening at approximately 1500 RPM full throttle and reach full open at approximately 3500 RPM.

The dashpot or diaphragm located at the right-front corner of the carburetor affects the air valve as well as choke operation. It provides a smooth opening of the air valve rather than the popping open when the secondaries are reached. It is used mostly for less than full throttle maneuvers, but can also be a benefit for full throttle operation, especially with the intake manifold heat crossover blocked. By delaying the opening rate of the air valve, less spring wrap may possibly be used.

Variations of all the above should be tried; primary jets and secondary rods for fuel mixture, and air valve wrap, with and without the dashpot for low and mid-range power and feel.

SECONDARY METERING RODS ---

The following chart compares various rods with the AU:

ROD	END DIA.	DESCRIPTION
AU 7033655	.053 inch	Stock W30, W31, 4-4-2 Automatic
AT 7033658	.067 inch	Stock 4-4-2 Syncromesh and 310 hp. Same below 3500 RPM as AU 4½% cleaner above 3500 RPM
AX 7033549	.042 inch	5% richer below 3500 RPM than AU 3% richer above 3500 RPM
AG	.030 inch	3½% richer below 3500 RPM than AU 5% richer above 3500 RPM

Production rods can be machined to a smaller diameter, but must be done only with precision machinery. Only the small straight portion of the rods should be changed. Remember, the distance from the bottom of the hook to the top of the straight portion must be 2.50 inches or less.

PRIMARY METERING JETS ---

Full throttle fuel rate can also be altered with changes in primary metering jets. Each .001 inch jet size change is equivalent to 1½% change in full throttle fuel mixture. Since the primary jets affect part throttle operation and since the top of the carburetor must be removed to reach the jets, changing the secondary rods should be done first.

Richening of the primary jets could give a more responsive off-the-line feel.

SECONDARY BLEED TUBES ---

The secondary bleed tubes are air bleeds into the secondary wells, which aid secondary tip-in response in normal driving. Though they also help control the fuel mixture, they are not an especially good tool to use. They are small brass tubes that protrude out the top of the carburetor beside the secondary rods. Plugging these tubes with toothpicks will greatly enrich the mixture, approximately 10% to 20%, but the exact change is unpredictable and could affect distribution.

The necessary enrichment on a stocker can be easily achieved by use of available jets and rods without using the bleed tubes. However, if a highly modified engine is used, and further enrichment is needed, the bleed tubes do have a great effect.

#### PRIMARY METERING RODS ---

The primary metering rods should never be changed. All Rochester primary rods have the same .026 inch diameter on the small end. Changing to another rod can only affect part throttle operation. Since the large end of the rod is a tapered surface, which is pre-set at the factory, any change would give an unpredictable effect.

#### SECONDARY METERING ROD HOLDER ---

This rod holder is also known as a hanger, yoke, or lever. It holds and positions the secondary metering rods in the secondary jets. Changing the height of the holder by bending should never be done. Any change would definitely be unpredictable, with no way of returning to the baseline. Also if one side is bent more than another very poor distribution will result.

Raising the holder raises the secondary rods during their travel. This will richen the mixture below 3500 RPM, while not affecting the mixture above 3500 RPM.

Lowering the holder will lean the mixture below 3500 RPM and will lean the mixture drastically above 3500 RPM. Again, the change is unpredictable.

If experimentation in this area is desired, the holder can be raised by placing narrow shims under the holder, one in front of and one behind the mounting screw.

Better yet, a new holder can be used. The holders are letter coded A, B, C, etc. Each letter size indicates a .005 inch change in rod height, with A being the highest or richest, and Z the lowest and leanest.

The hanger is selected at the factory to make the carburetor flow properly. Therefore, a carburetor with a D holder is not richer than a carburetor with a M holder.

If a particular carburetor has an N hanger the secondary rods can be raised .010 inch by using a K hanger, and lowered .010 inch by using an O hanger.

You can see that this is a very touchy area.

#### AIR VALVE WRAP ---

The air valve wrap is the amount of pre-tension applied to the air valve by the air valve spring. The spring is located at the right end of the air valve shaft (passenger side). An adjusting screw can be found on the right side of the carburetor, with an allen head lock screw below. The wrap  $\frac{1}{2}$  turn or  $\frac{3}{4}$  turn is the angle the adjusting screw is turned beyond the tension required to just close the air valve with vibration.

Before adjusting or changing the air valve wrap, note and scribe a mark where the adjusting screw is at present.

To check the wrap as received:

1. Place a narrow screwdriver in the adjusting screw.
2. Loosen the lock screw.
3. Back off, by turning counter-clockwise, the adjusting screw while "tapping" on the casting with the handle of a larger screwdriver. Note the number of turns or part of a turn before the air valve begins to open.

To set the wrap:

1. Loosen the lock screw and back off the adjusting screw until the air valve opens.
2. Begin closing the air valve by turning the adjusting screw clockwise while tapping on the casting until the air valve just barely closes.
3. Turn the adjusting screw an additional turn,  $\frac{1}{2}$ ,  $\frac{1}{2}$ , etc. clockwise.
4. Tighten the lock screw.

Do not use more than one turn wrap to avoid over-stressing the spring.

#### TEST PROCEDURE ---

First runs should be made with the carburetor in stock form. Subsequent runs may be made with the following changes:

1. Disconnect the vacuum hose from the choke diaphragm and plug the hose. Leave the spout on the diaphragm open.
2. Decrease air valve wrap in  $\frac{1}{2}$  turn steps. Make runs with diaphragm connected and disconnected. The wrap should be decreased until a loss in performance or a bog off-the-line is felt. Less wrap may be possible with the diaphragm connected. The automatic transmission cars may need more wrap than synchromesh.
3. After a particular wrap, with or without the diaphragm, is determined change secondary rods and make more runs. Try going richer first, but also don't hesitate to try a step leaner. To be sure the proper mixture has been found, it is best to find a mixture that is too rich as well as too lean.

4. Changing wrap will affect fuel mixture in the low and mid-range engine speeds, so additional changes in air valve wrap settings should be tried after secondary rods have been changed.
5. Further changes in fuel mixture can be made by changing the primary jets, plugging or restricting the secondary bleed tubes with a piece of wire, or using a new secondary rod holder.

VALVE TRAIN ---

Camshafts

IMPORTANT: Production "W" car camshafts are developed on a dynamometer with cold-air induction, exhaust headers, and blocked carburetor head. Indexing these camshafts to other-than-stock positions is not recommended. Additional performance increases here are highly unlikely, since all "indexing" has already been done on the dynamometer. Camshaft specifications are:

PACKAGE	1970 310hp Auto.Trans.		1970 365hp Auto. Trans.		1970 365hp Sync. Trans.		
Part #	400084		400165		406768		
Opens	<u>Int.</u> 16°	<u>Exh.</u> 64°	<u>Int.</u> 24°	<u>Exh.</u> 74°	<u>Int.</u> 30°	<u>Exh.</u> 78°	
Closes	54°	20°	81°	33°	84°	38°	
Overlap	36°		57°		68°		
Duration	250°	264°	285°	287°	294°	296°	
Lift	.400	.400	.472	.472	.472	.472	
PACKAGE	1970 310hp Sync.Trans.		PACKAGE	'69 & '70 W30	'69 & '70 W31		
Part #	393859		Part #	402569	402194		
Opens	<u>Int.</u> 30°	<u>Exh.</u> 78°	Opens	<u>Int.</u> 56°BTC	<u>Exh.</u> 96°BBC	<u>Int.</u> 40°BTC	<u>Exh.</u> 86°BBC
Closes	76°	28°	92°ABC 52°ATC		88°ABC	42°ATC	
Overlap	58°		108°		82°		
Lift	.472	.472	.475	.475	.474	.474	
Duration	286°	286°	328°	328°	308°	308°	

## VALVE SPRINGS

Production valve springs used on "W" cars are equipped with dampers on intake and exhaust.

Special assemblies 404729 and 398247 have special heat-set wire that will not lose load after repeated high-rpm usage.

It is not recommended to shim rocker arm stands to get near zero lash in the hydraulic lifters. This will upset valve train geometry. It is advisable to change springs and lifters if high rpm cannot be obtained.

### BLUEPRINTING

For all out racing internal specs and clearances should be checked. A very important item is piston to bore clearance. With production pistons it should be .003 to .004 inches.

If forged pistons are used, additional clearance is needed since forged pistons expand more than autothermic production pistons. Use clearance suggested by piston manufacturer.

To hone the bores for increased clearance the following is recommended:

1. Insert piston upside down in the bore and check clearance between the piston skirt and the bore.
2. Hone the block with a Sunnen rigid hone with a 200-grit stone to reach the desired clearance.

The crankshaft should be ground to obtain .002 - .0025 inches connecting rod clearance. .002 - .0025 inches main bearing clearance on 350 engines and .002 inch maximum main bearing clearance on 455 engines should be used.

For increased bearing clearance, the following method should be used: insert the bearings in the connecting rod or main bearing cap and torque to specifications. Check the ID with a micrometer. Grind the crank for desired clearance on a crankshaft grinder. The crank should be polished after grinding.

Connecting rod side clearance should be increased to .018-.020 inches. To check side clearance, the rods should be installed on the crankshaft and torqued to specifications. Install a screwdriver between the rods and gently pry apart. Be careful not to damage the thrust face when prying apart. Insert a feeler gauge between the rods to check clearance.

As an example, assume that this clearance is .010 inches. Then remove only one rod and surface-grind .005 inches from each side. This will total .020 inches clearance.

Piston-to-deck clearance minimum specification is .002 inches. Naturally, all pistons can't be made to this exacting tolerance. Pistons should be purchased with .006"- .008" deck clearance. Check this clearance when assembling.

### Lubrication:

For all out performance, modifications should be made to the oiling system. Oil pump pressure should be about 60 psi at 2000 RPM. If more pressure is needed then a heavier oil pump bypass spring is needed or else the old one can be shimed.

It is also important that oil pump gears be of equal length. They should be surface ground to equal length. The amount that they project out of oil pump body should be .009 inches. The oil pump body may need to be surface ground to get this dimension. Doing the above will insure that you will have a "perfect" pump.

Main bearing oil holes should be enlarged to 5/16".

The fitting at the front of the block that squirts oil on the timing chain should be plugged.

Toronado oil pan and pump are recommended. The Toronado pan has one more quart capacity and a skimmer baffle.

The oil pump pick up tube should be enlarged to 5/8" I.D.

POWER TRAIN

Oldsmobile W machines are produced with excellent clutch discs, pressure plates and flywheels; and they have good durability for street and strip.

For maximum protection in all out competition, the stock bellhousing should be replaced with a Lakewood Industry 1/4 inch thick steel housing (Model P01).

There are three syncromesh transmissions available at Olds. Two are Muncie 4-speeds and one is fully synchronized 3-speed. Ratios are:

	<u>Muncie Close</u>	<u>Muncie Wide</u>	<u>Chevrolet Muncie 3-Spd.</u>
1st	2.20 - 1	2.52 - 1	2.42 - 1
2nd	1.64 - 1	1.88 - 1	1.58 - 1
3rd	1.28 - 1	1.46 - 1	1 - 1
4th	1 - 1	1 - 1	

All floor shifters are made by Hurst. They are the same basic construction as the after market Hurst competition shifter except there are no stops and there is sound insulation on the production shifter.

Oldsmobile started manufacturing their own differentials in 1968. The following performance ratios are available for 1968, 1969, and 1970 for Cutlass and 4-4-2s -- 3.42, 3.91, 4.33, 4.66, and 5.00.

The 4.33, 4.66, and 5.00 are dealer installed only. The reason for this is cooling considerations.

Differentials with ratios of 2.56, 2.78, 3.08, and 3.23 are of different design and the above ring and pinions will not interchange.

If you have a car with a 3.42 or numerically higher ratio then the performance ratios will interchange.

There are four ways to modify the Turbo Hydra-matic 400 for quicker shifting.

The methods are:

A. STREET PACKAGE - Quick Shifts

1. Rework spacer plate
  - a. Open 2nd clutch feed orifice to .110" dia.
  - b. Open 3rd clutch feed orifice to .125" dia.
2. Replace 2nd clutch wave plate with flat plate P/N 8623150.
3. Replace 3rd clutch wave plate with flat plate P/N 8625197.
4. On steps 2 and 3 be sure there is adequate clutch pack clearance.

B. SEMI BONZI - Hard Shifts

1. Open 3rd clutch feed to .180" dia. in spacer plate.
  2. Replace 2nd clutch wave plate with flat plate P/N 8623150.
  3. Replace 3rd clutch wave plate with flat plate P/N 8625197.
  4. Replace forward clutch wave plate with flat plate P/N 8625197.
  5. On steps 2 through 4 be sure there is adequate clutch pack clearance.
  6. Remove the following 4 ball checks:
    - a. RND
    - b. 3rd clutch
    - c. 2 - 3 Dr (2 balls)
- NOTE: DO NOT remove modulator/intermediate and reverse/low ball checks.
7. Remove front accumulator spring and install piston upside down in valve body.
  8. Remove center seal from forward and direct clutch drums.
  9. Plug reverse clutch feed in center support with  $\frac{1}{2}$ " Dia. cup plug.
  10. Rework 1-2 accumulator system as below:
    - a. Remove trim spring at bottom of the valve body bore.
    - b. Install  $\frac{1}{2}$ " Dia. copper tubing .95 long for 1 valve or .82 long if there is 2 valves. This should block the valve(s) out against the plug.
  11. Install modified governor to get a higher W.O.T. rpm.

- C. FULL BONZI - Maximum capacity, hard shifts, shifts only at W.O.T.
1. Items 1 through 10 on Semi Bonzi Plus:
  2. Block vacuum modulator valve in by installing a 5/16" dia. ball in the neck of the modulator can.
  3. Plug reverse boost with 1/4" dia. cup plug in the pump cover.
  4. Vent reverse boost with 1/16" deep flat on large O.D. land of boost valve.
  5. Install 30.4 lb. pressure regulator spring. (1.372 checking height)
  6. Remove detent solenoid.  
NOTE: No vacuum or electrical connection is needed.
  7. Install modified governor to get a higher W.O.T. rpm.
- D. MANUAL SHIFT - Low = 1st, Intermediate = 2nd. Left in Drive it's 2nd gear start and shifts to 3rd at 20 mph.

(For use with package B or C).

1. Block detent valves apart with 5/16" dia. copper tubing .41" long.
2. Remove 1-2 modulator - regulator valves and spring.
3. Plug 1-2 valve body bore vent with 3/16" dia. cup plug.
4. Electrical connection not needed for manual shift package.

Note: Packages B, C, and D should be reworked only by an accomplished transmission technician.

Low range can be engaged at any speed with packages C and D.

Additional welds at outer corners of converter weld nuts are recommended for speeds over 6000 rpm.

There are axle shaft differences in 1968, 1969, and 1970 differentials.

1968 shafts have 31 tooth spline

1969 shafts have 28 tooth spline and shafts are smaller but metallurgy is better.

1970 shafts have 28 tooth spline but a change was made from a ball to a higher capacity roller bearing.

## Suspension

The following suspension modifications have proven successful for dragging.

### A. Springs

442

No. 400870 (Pontiac) Both sides. An Olds  
No. 400360 spacer under left front spring.

Cutlass

No. 400870 left front (Pontiac)  
No. 400868 right front (Pontiac)

These springs are selected for their low rate and controlled load. They allow the car to lift more on acceleration.

### B. Shocks

Cure Ride 90/10. Available from speed shops and auto parts houses.

### C. Front stabilizer shaft bushings

Ream hole out to 1.0". This decreases effectiveness of front stabilizer bar. This hole can be reamed with a 1" stone and electric drill.

### D. Upper control arm bumper

Cut off top of bumper so that base is 3/8" thick.

### E. Tires

2-ply polyester cord with narrow tread. 8.15 x 15 non-low profile.

## REAR SUSPENSION

### A. Springs

No. 9793915 Oldsmobile

### B. Shocks

No. 3192803 (Standard on 1969 4-4-2)

### C. Control arm bushings

Replace all (8) with No. 388266 (Olds)

### D. Helper Springs

Use Air Lift H-D Type

Start with 4 psi on both sides. Add air in 2 psi increments on the side opposite the sideways motion of rear end until car goes in straight line. For off-the-road use, a likely starting point is 5 psi left and 20 psi right.

Lakewood Industries is marketing traction bars that have proven successful on some top running cars.

PARTS IDENTIFICATION - 1969

The following is a list of high performance parts for 1969 Oldsmobile Cutlass and 4-4-2 models. Part numbers are shown as listed in Parts & Accessories Catalog (PA 310). They are sometimes different from engineering numbers due to packing procedures, which may include mounting parts, gaskets, bolts, etc.

Engine

W-30 - 4-4-2, 400 cu.in.

<u>Part</u>	<u>Part Number</u>	<u>Description</u>
*Engine (Syncromesh)	230824	
Cylinder head	230612	
Intake valve	403350	2-1/16" x 30°
Exhaust valve	401762	1-5/8" x 45°
Valve spring assy.	404729	Silicone steel - heat set
Carburetor	7016939	Calibrated for W-30 camshaft
Camshaft	402569	328° duration on intake and exhaust (.475 in. lift)
Piston	400618	
Distributor	1111933	

Engine

W-31, 350 cu.in.

*Engine (Syncromesh)	231011	
Cylinder head	230619	
Valve intake	389451	2" x 45°
Valve exhaust	401762	1-5/8" x 45°
Valve spring assembly	398247	Silicone steel heat set
Piston	230645	
Carburetor	7016955	
Camshaft	402194	308° duration - .474 in. lift
Distributor	1111930	

Ram Air Parts

Air cleaner	6485003	Dual snorkle
Duct assembly-carb. air rt.	403180	Fits beneath bumper
Duct assembly-carb. air lt.	403181	Fits beneath bumper
Hose-duct to air cleaner	400674	
Clamp - hose to duct	451245	
Clamp - hose to air cleaner	400964	

Differentials

The following differential parts are for 1969 Cutlass and 4-4-2 models.

Parts are made from high strength materials for maximum horsepower and torque considerations. Parts are interchangeable with differentials with 3.42, 3.91, 4.33 and 4.66 ratios.

Standard differentials with 2.56, 2.78, 3.08 and 3.23 ratios are different from above and parts will not interchange.

Differential housing	230727	
Axle shaft assembly	403601	
Gear set ring and pinion	230812 (4.33-1)	
Gear set ring and pinion	230038 (3.42-1)	
Gear set ring and pinion	230039 (3.91-1)	
Gear set ring and pinion	230813 (4.66-1)	Dealer installed only
Gear set ring and pinion	230814 (5.00-1)	Fits 3.42, 3.91 or 4.33 case
Case assembly differential	230811	

PARTS IDENTIFICATION - 1970

4-4-2 Engine

	370 HP 455 cu.in.		365 HP 455 cu.in.	
	AMT	SMT	AMT	SMT
Cyl. head casting no.	404438	404438	403686	403686
Cyl. head assy. Includes valves & springs	406741	405588	405586	405586
Cyl. head (Machined)	230897	230897	230896	230896
Intake valve	403350	403350	403350	403350
Exhaust valve	401762	401762	401762	401762
Valve spring	404729	404729	397583	397583
Carburetor				
Catalog Number	7041340	7041326	7041327	7036931
Rochester Number	7040251	7040251	7040251	7040253
Camshaft	or 7040258	or 7040256	or 7040257	
Piston "A" size	402569	402569	400165	406768
Distributor	400561	400561	400561	400561
	1111979	1111977	1111982	1111982

Cutlass 350 cu.in. Engine

	325 HP W-31		310 HP
	AMT & SMT		SMT
Cyl. head casting	403859		403859
Cyl. head assy. Includes valves & springs	405585		405584
Cyl. head (Machined)	230895		230894
Intake valve	389451		399809
Exhaust valve	401762		401768
Valve spring	404729		397583
Carburetor			
Catalog Number	7036930		7047050
Rochester Number	7040255		7040250 or 7040253
Camshaft	402194		393859
Piston "A" size	230645		400601
Distributor	1111975		1111975

Differentials - 1970

Anti-spin for Cutlass & 4-4-2

<u>Part</u>	<u>Part No.</u>	<u>Description</u>
Axle sub assy. 3.42	405077	Available only during current model year.
Axle sub assy. 3.91	405078	Production
Axle shaft assy.	403304	
Gear set ring and pinion	230038	3.42-1
Gear set ring and pinion	230039	3.91-1
Gear set ring and pinion	230812	4.33-1 Dealer installed only
Gear set ring and pinion	230813	4.66-1 Dealer installed only
Gear set ring and pinion	230814	5.00-1 Dealer installed only
Case assy. differential	230811	Fits above ratios only
Differential housing	231000	

OLDS W-31 SPECIFICATIONS Registered NHRA Limits - 1969

Engine type	90° Air-Inducted Rocket V-8
Displacement, cu.in.	350.30662 max. 349.82443 min.
Bore and stroke	4.057" x 3.385"
Compression ratio	10.5 Nominal 11.55:1 Max. clean 11.85:1 Max. with normal carbon build up
Max. bbp	325 at 5600 rpm
Max. Torque ft.lbs.	360 at 3600 rpm
Cyl. head volume	60.58 cc min.
Head gasket thickness, compressed	0.023" - 0.27"
Head gasket volume	5.32305 cc min.
Deck clearance, min.	.002" below block
Min. combustion chamber vol.	67.92444 cc min.
Piston type	Flat
Cyl. head, part number	230619
casting number	397742
Carburetion, type	4-bbl Rochester, specially calibrated
Model w/SM trans	4MV
Model w/Auto trans	4MV
Part number w/SM trans	7029255
Part number w/Auto trans	7029255
Intake manifold casting no.	398663
Material	Cast iron
Camshaft type	Hydraulic
Part number	402195
Assembly number	402194
Casting number	389410
Rocker arm ratio	1.6:1
Camshaft timing	
Opens, intake & exhaust	40° BTC, 86° BBC
Closes, intake & exhaust	88° ABC, 42° ATC



Weights (Continued)

CUTLASS

<u>Name</u>	<u>Model</u>	<u>Weight</u>
Cutlass Hardtop Sedan	33639	3536
Cutlass Station Wagon	33635	3865
Cutlass 4-Door Sedan	33669	3481
Cutlass Club Coupe	33677	3429
Cutlass Hardtop Coupe	33687	3465

CUTLASS SUPREME

Hardtop Sedan	34239	3571
Hardtop Coupe	34257	3484
Convertible	34267	3523

GENERAL SPECIFICATIONS

4-4-2 W-30 SPECIFICATIONS Registered NHRA Limits - 1969

Engine type	90° Air-Inducted Rocket V-8
Displacement, cu.in.	400.10671 max. 399.76725 min.
Bore and stroke	3.870" x 4.250"
Compression ratio	10.5 Nominal 11.28:1 Max. clean 11.58:1 Max. w/normal carbon build up
Max. bhp	360 at 5400 rpm
Max. Torque, ft.lbs.	440 at 3600 rpm
Cyl. head volume	69.75 cc min.
Head gasket thickness, compressed	0.023" - .027"
Head gasket volume	5.32305 cc min.
Deck clearance, min.	0.002" below block
Min. combustion chamber vol.	79.63804 cc min.
Piston type	Dished
Displacement of dish	1.70 cc min.
Cyl. head, part number	230612
casting number	400370
Carburetion, type	4 bbl. Rochester, specially calibrated
Model w/SM trans	4MV
Model w/Auto trans	4MV
Part number w/SM trans	7029254
Part number w/Auto trans	7029254
Intake manifold casting no.	398662
Material	Cast Iron
Camshaft type	Hydraulic
Part number	402570
Assembly number	402569
Casting number	389410
Rocker arm ratio	1.6:1







# 1970 Olds Escape Machine power teams



**Engines  
Transmissions  
Axle Ratios**



**Customize each  
new Escape Machine  
with a power team  
that suits the customer's  
driving personality**

Some want performance; others demand economy; some people like to shift for themselves. And with the 1970 lineup of Escape Machine Power Teams you can satisfy them all . . . more so than ever! This year there are 11 big Rocket V-8s (with horsepower ratings from 250 to 400) . . . a thrifty, lively Six . . . four silent, fully synchronized manual transmissions . . . and ultra-smooth Turbo Hydra-matic can be teamed with every engine!

What's more, there's a wide range of axle ratios for customized performance in city, suburban or superhighway driving.

Help your customer select the power team that's right for his way of driving. He'll enjoy his Escape Machine more . . . and like you more for it!

**For extrovert personalities . . .  
W-Machine special performance equipment!**

New W-Machine performance packages . . . made to order for the driver who yearns to escape with extra-special performance! The 4-4-2 competition version (W-30) includes a special 455 CID V-8, Force-Air Induction, fiberglass hood with air scoops, heavy-duty floor-mounted Hurst Shifter, low-restriction dual exhausts and Anti-Spin rear axles to 5.00-to-1.

The W-31 package (available on Cutlass S and F-85) features a special Force-Air 350 CID V-8 and similar high-performance accessories . . . and can be ordered with combinations of Rally-Sports chassis equipment like that of the 4-4-2.

POWER TEAMS FULL-SIZE MODELS	ENGINES	AUTOMATIC TRANSMISSIONS		FULLY-SYNCHRONIZED MANUAL TRANSMISSION
		HEAVY-DUTY TURBO HYDRA-MATIC 400 (M41)	TURBO HYDRA-MATIC 400 (M40)*	3-SPEED COLUMN-SHIFT (STD.)**
		Ratios: First.....2.48:1 Second.....1.48:1 Third.....1.00:1 Reverse.....2.08:1	Ratios: First.....2.48:1 Second.....1.48:1 Third.....1.00:1 Reverse.....2.08:1	Ratios: First.....2.42:1 Second.....1.61:1 Third.....1.00:1 Reverse.....2.33:1
AXLES FOR ABOVE TRANSMISSIONS				
TORONADO	400-HP ROCKET 455 V-8 H.C. (W34)	N.A.	3.07:1 (Std.)	N.A.
	375-HP ROCKET 455 V-8 H.C. (STD.)	N.A.	3.07:1 (Std.)	N.A.
NINETY-EIGHT	365-HP ROCKET 455 V-8 H.C. (STD.)	N.A.	2.56:1 (Std.) 2.93:1 (G94) <sup>a</sup>	N.A.

DELTA 88 ROYALE AND DELTA 88 CUSTOM	390-HP ROCKET 455 V-8 H.C. (W33)	2.93:1 (Std.)	N.A.	N.A.
	365-HP ROCKET 455 V-8 H.C. (L31)	N.A.	2.56:1 (Std.) 2.93:1 (G94) <sup>a</sup>	N.A.
	310-HP ROCKET 455 V-8 REGULAR-FUEL (STD.)	N.A.	2.56:1 (Std.) 2.93:1 (G94) <sup>a</sup>	2.93:1 (Std.)
DELTA 88	390-HP ROCKET 455 V-8 H.C. (W33)	2.93:1 (Std.)	N.A.	N.A.
	365-HP ROCKET 455 V-8 H.C. (L31)	N.A.	2.56:1 (Std.) 2.93:1 (G94) <sup>a</sup>	N.A.
	310-HP ROCKET 455 V-8 REGULAR-FUEL (L30)	N.A.	2.56:1 (Std.) 2.93:1 (G94) <sup>a</sup>	2.93:1 (Std.)
	250-HP ROCKET 350 V-8 REGULAR-FUEL (STD.)	N.A.	2.78:1 (Std.) 3.23:1 (G91) <sup>a</sup>	3.23:1 (Std.)

\*—Standard in Tornado and Ninety-Eight. \*\*—Standard in 88 models. <sup>a</sup>—For performance or trailer towing.

# POWER TEAMS

INTERMEDIATE MODELS

## ENGINES

### AUTOMATIC TRANSMISSIONS

#### TURBO HYDRA-MATIC 400 (M40)

Ratios:  
First.....2.48:1  
Second.....1.48:1  
Third.....1.00:1  
Reverse.....2.08:1

#### TURBO HYDRA-MATIC 350 (M38)

Ratios:  
First.....2.52:1  
Second.....1.52:1  
Third.....1.00:1  
Reverse.....1.93:1

### FULLY SYNCHRONIZED MANUAL TRANSMISSIONS

#### 4-SPEED FLOOR-SHIFT WIDE-RATIO (M20)

Ratios:  
First.....2.52:1  
Second.....1.88:1  
Third.....1.46:1  
Fourth.....1.00:1  
Reverse.....2.60:1

#### 4-SPEED FLOOR-SHIFT CLOSE-RATIO (M21)

Ratios:  
First.....2.20:1  
Second.....1.64:1  
Third.....1.28:1  
Fourth.....1.00:1  
Reverse.....2.27:1

#### HEAVY-DUTY 3-SPEED FLOOR-SHIFT (M14)\*\*

Ratios:  
First.....2.42:1  
Second.....1.61:1  
Third.....1.00:1  
Reverse.....2.33:1

#### 3-SPEED COLUMN-SHIFT (STD.)

Ratios:  
First.....2.54:1  
Second.....1.50:1  
Third.....1.00:1  
Reverse.....2.63:1

### AXLES FOR ABOVE TRANSMISSIONS\*

## VISTA-CRUISER

365-HP  
ROCKET 455 V-8 H.C.  
(L31)

2.56:1 (Std.)  
2.78:1 (G95)  
3.08:1 (G90)<sup>a</sup>

N.A.

N.A.

N.A.

N.A.

N.A.

310-HP  
ROCKET 350 V-8 H.C.  
(L74)

N.A.

2.78:1 (G95)  
3.08:1 (Std.)<sup>a</sup>  
3.23:1 (G91)<sup>b</sup>

N.A.

N.A.

N.A.

3.23:1 (Std.)

250-HP  
ROCKET 350 V-8  
REGULAR-FUEL (STD.)

N.A.

2.78:1 (Std.)  
3.08:1 (G90)<sup>a</sup>  
3.23:1 (G91)<sup>b</sup>

N.A.

N.A.

N.A.

3.23:1 (Std.)

4-4-2	370-HP FORCE-AIR ROCKET 455 V-8 H.C. (W30)	3.23:1 (G91)c 3.42:1 (Std.)d 3.91:1 (G88)d	N.A.	N.A.	3.42:1 (Std.)d 3.91:1 (G88)d	N.A.	N.A.
	365-HP 4-4-2 ROCKET 455 V-8 H.C. (STD.)	2.56:1 (G96) 2.78:1 (G95) 3.08:1 (G90)a 3.23:1 (Std.)bc 3.42:1 (G92)d	N.A.	N.A.	3.42:1 (Std.)d	3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92)d	N.A.
CUTLASS SUPREME	320-HP ROCKET 455 V-8 H.C. (L33 or Y79)	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90)a 3.23:1 (G91)b	N.A.	N.A.	N.A.	N.A.	N.A.
	310-HP ROCKET 350 V-8 H.C. (STD.)	N.A.	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90)a 3.23:1 (G91)b 3.42:1 (G92)d 3.91:1 (G88)d	3.08:1 (Std.)e 3.23:1 (G91)e 3.42:1 (G92)de	3.42:1 (Std.)de 3.91:1 (G88)de	2.78:1 (G95)e 3.08:1 (Std.)e 3.23:1 (G91)e 3.42:1 (G92)de 3.91:1 (G88)de	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92)d 3.91:1 (G88)d
	250-HP ROCKET 350 V-8 REGULAR-FUEL (L65)	N.A.	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90) 3.23:1 (G91) 3.42:1 (G92)d 3.91:1 (G88)d	3.08:1 (Std.)e 3.23:1 (G91)e 3.42:1 (G92)de	3.42:1 (Std.)de 3.91:1 (G88)de	2.78:1 (G95)e 3.08:1 (Std.)e 3.23:1 (G91)e 3.42:1 (G92)de 3.91:1 (G88)de	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92)d 3.91:1 (G88)d

\*—In addition to factory-installed axles with ratios listed below, dealer-installed axles with 4.33:1, 4.66:1, and 5.00:1 ratios are available for all V-8 power teams (except L33 with M40) in all models except Vista-Cruisers. These high ratios are not recommended for city or highway use. \*\*—Standard in 4-4-2 models.

a—For trailer towing (Class 1). b—For trailer towing (Class 2). c—Standard with Air Conditioner (C60) or Heavy-Duty Engine-Cooling Equipment (Y72). d—Extra-cost performance axle with heavy-duty shafts and differential gears, and Anti-Spin differential (G80); furnished with heavy-duty radiator; N.A. with C60 or Y72. e—For Coupe and Convertible only.

**POWER  
TEAMS**  
INTERMEDIATE  
MODELS

**ENGINES**

**AUTOMATIC TRANSMISSIONS**

**TURBO  
HYDRA-MATIC  
400  
(M40)**

**Ratios:**  
First... 2.48:1  
Second... 1.48:1  
Third... 1.00:1

Reverse... 2.08:1

**TURBO  
HYDRA-MATIC  
350  
(M38)**

**Ratios:**  
First... 2.52:1  
Second... 1.52:1  
Third... 1.00:1

Reverse... 1.93:1

**4-SPEED  
FLOOR-SHIFT  
WIDE-RATIO  
(M20)**

**Ratios:**  
First... 2.52:1  
Second... 1.88:1  
Third... 1.46:1  
Fourth... 1.00:1

Reverse... 2.60:1

**FULLY SYNCHRONIZED MANUAL TRANSMISSIONS**

**4-SPEED  
FLOOR-SHIFT  
CLOSE-RATIO  
(M21)**

**Ratios:**  
First... 2.20:1  
Second... 1.64:1  
Third... 1.28:1  
Fourth... 1.00:1

Reverse... 2.27:1

**HEAVY-DUTY  
3-SPEED  
FLOOR-SHIFT  
(M14)**

**Ratios:**  
First... 2.42:1  
Second... 1.61:1  
Third... 1.00:1

Reverse... 2.33:1

**3-SPEED  
COLUMN-  
SHIFT  
(STD. V-8)**

**Ratios:**  
First... 2.54:1  
Second... 1.50:1  
Third... 1.00:1

Reverse... 2.63:1

**3-SPEED  
COLUMN-  
SHIFT  
(STD. L-6)**

**Ratios:**  
First... 2.85:1  
Second... 1.68:1  
Third... 1.00:1

Reverse... 2.95:1

**AXLES FOR ABOVE TRANSMISSIONS\***

**325-HP  
FORCE-AIR  
ROCKET 350 V-8 H.C.  
(W31)**

N.A.

3.42:1 (G92)d  
3.91:1 (Std.)d

3.42:1 (G92)d  
3.91:1 (Std.)d

3.42:1 (G92)d  
3.91:1 (Std.)d

3.42:1 (G92)d  
3.91:1 (Std.)d

N.A.

N.A.

**320-HP  
ROCKET 455 V-8 H.C.  
(L33)**

2.56:1 (Std.)  
2.78:1 (G95)  
3.08:1 (G90)a  
3.23:1 (G91)b

N.A.

N.A.

N.A.

N.A.

N.A.

N.A.

**310-HP  
ROCKET 350 V-8 H.C.  
(L74)**

N.A.

2.56:1 (G96)  
2.78:1 (Std.)  
3.08:1 (G90)a  
3.23:1 (G91)b  
3.42:1 (G92)d  
3.91:1 (G88)d

3.08:1 (Std.)  
3.23:1 (G91)  
3.42:1 (G92)d

3.42:1 (Std.)d  
3.91:1 (G88)d

2.78:1 (G95)  
3.08:1 (Std.)  
3.23:1 (G91)  
3.42:1 (G92)d  
3.91:1 (G88)d

2.78:1 (G95)  
3.08:1 (Std.)  
3.23:1 (G91)  
3.42:1 (G92)d  
3.91:1 (G88)d

N.A.

**CUTLASS S**

	250-HP ROCKET 350 V-8 REGULAR-FUEL (STD.)	N.A.	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90) <sup>a</sup> 3.23:1 (G91) <sup>b</sup> 3.42:1 (G92) <sup>d</sup> 3.91:1 (G88) <sup>d</sup>	3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) <sup>d</sup>	3.42:1 (Std.) <sup>d</sup> 3.91:1 (G88) <sup>d</sup>	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) <sup>d</sup> 3.91:1 (G88) <sup>d</sup>	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) <sup>d</sup> 3.91:1 (G88) <sup>d</sup>	N.A.
	155-HP ACTION-LINE 6 REGULAR-FUEL (STD.)	N.A.	2.78:1 (Std.) 3.08:1 (G90) <sup>c</sup> 3.23:1 (G91)	N.A.	N.A.	N.A.	N.A.	2.78:1 (Std.) 3.08:1 (G90) <sup>c</sup> 3.23:1 (G91)
CUTLASS SEDANS AND WAGONS	320-HP ROCKET 455 V-8 H.C. (L33)	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90) <sup>a</sup> 3.23:1 (G91) <sup>b</sup>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	310-HP ROCKET 350 V-8 H.C. (L74)	N.A.	2.56:1 (G96) 2.78:1 (Std.) 3.08:1 (G90) <sup>a</sup> 3.23:1 (G91) <sup>b</sup> 3.42:1 (G92) <sup>de</sup> 3.91:1 (G88) <sup>de</sup>	N.A.	N.A.	N.A.	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) <sup>de</sup> 3.91:1 (G88) <sup>de</sup>	N.A.
	250-HP ROCKET 350 V-8 REGULAR-FUEL (STD.)	N.A.	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90) <sup>a</sup> 3.23:1 (G91) <sup>b</sup> 3.42:1 (G92) <sup>de</sup> 3.91:1 (G88) <sup>de</sup>	N.A.	N.A.	N.A.	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) <sup>de</sup> 3.91:1 (G88) <sup>de</sup>	N.A.
	155-HP ACTION-LINE 6 REGULAR-FUEL (STD.)	N.A.	2.78:1 (Std.) 3.08:1 (G90) <sup>c</sup> 3.23:1 (G91)	N.A.	N.A.	N.A.	N.A.	2.78:1 (Std.) 3.08:1 (G90) <sup>c</sup> 3.23:1 (G91)

\*—In addition to factory-installed axles with ratios listed below, dealer-installed axles with 4.33:1, 4.66:1, and 5.00:1 ratios are available for all V-8 power teams (except L33 with M40). These high ratios are not recommended for city or highway use.

<sup>a</sup>—For trailer towing (Class 1). <sup>b</sup>—For trailer towing (Class 2). <sup>c</sup>—Standard with Air Conditioner (C60) or Heavy-Duty Engine-Cooling Equipment (Y72). <sup>d</sup>—Extra-cost performance axle with heavy-duty shafts and differential gears, and Anti-Spin differential (G80); furnished with heavy-duty radiator; N.A. with C60 or Y72. <sup>e</sup>—For Sedans only.

# POWER TEAMS

## INTERMEDIATE MODELS

ENGINES	AUTOMATIC TRANSMISSION	FULLY SYNCHRONIZED MANUAL TRANSMISSIONS				
	TURBO HYDRA-MATIC 350 (M38) Ratios: First..... 2.52:1 Second..... 1.52:1 Third..... 1.00:1 Reverse..... 1.93:1	4-SPEED FLOOR-SHIFT WIDE-RATIO (M20) Ratios: First..... 2.52:1 Second..... 1.88:1 Third..... 1.46:1 Fourth..... 1.00:1 Reverse..... 2.60:1	4-SPEED FLOOR-SHIFT CLOSE-RATIO (M21) Ratios: First..... 2.20:1 Second..... 1.64:1 Third..... 1.28:1 Fourth..... 1.00:1 Reverse..... 2.27:1	HEAVY-DUTY 3-SPEED FLOOR-SHIFT (M14) Ratios: First..... 2.42:1 Second..... 1.61:1 Third..... 1.00:1 Reverse..... 2.33:1	3-SPEED COLUMN-SHIFT (STD. V-8) Ratios: First..... 2.54:1 Second..... 1.50:1 Third..... 1.00:1 Reverse..... 2.63:1	3-SPEED COLUMN-SHIFT (STD. L-6) Ratios: First..... 2.85:1 Second..... 1.68:1 Third..... 1.00:1 Reverse..... 2.95:1
	AXLES FOR ABOVE TRANSMISSIONS*					
325-HP FORCE-AIR ROCKET 350 V-8 H.C. (W31)	3.42:1 (G92) d 3.91:1 (Std.) d	3.42:1 (G92) d 3.91:1 (Std.) d	3.42:1 (G92) d 3.91:1 (Std.) d	3.42:1 (G92) d 3.91:1 (Std.) d	N.A.	N.A.
310-HP ROCKET 350 V-8 H.C. (L74)	2.56:1 (G96) 2.78:1 (Std.) 3.08:1 (G90) a 3.23:1 (G91) b 3.42:1 (G92) d 3.91:1 (G88) d	3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) d	3.42:1 (Std.) d 3.91:1 (G88) d	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) d 3.91:1 (G88) d	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) d 3.91:1 (G88) d	N.A.
250-HP ROCKET 350 V-8 REGULAR-FUEL (STD.)	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90) a 3.23:1 (G91) b 3.42:1 (G92) d 3.91:1 (G88) d	3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) d	3.42:1 (Std.) d 3.91:1 (G88) d	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) d 3.91:1 (G88) d	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) d 3.91:1 (G88) d	N.A.
155-HP ACTION-LINE 6 REGULAR-FUEL(STD.)	2.78:1 (Std.) 3.08:1 (G90) c 3.23:1 (G91)	N.A.	N.A.	N.A.	N.A.	2.78:1 (Std.) 3.08:1 (G90) c 3.23:1 (G91)

\*—In addition to factory-installed axles with ratios listed below, dealer-installed axles with 4.33:1, 4.66:1, and 5.00:1 ratios are available for all V-8 power teams. These high ratios are not recommended for city or highway use.

a—For trailer towing (Class 1). b—For trailer towing (Class 2). c—Standard with Air Conditioner (C60) or Heavy-Duty Engine-Cooling Equipment (Y72). d—Extra-cost performance axle with heavy-duty shafts and differential gears, and Anti-Spin differential (G80); furnished with heavy-duty radiator; N.A. with C60 or Y72.

# 1970 Oldsmobile Engine Specifications

<b>ENGINES</b>	400-HP Rocket 455 V-8 H.C.	390-HP Rocket 455 V-8 H.C.	375-HP Rocket 455 V-8 H.C.	370-HP Force-Air Rocket 455 V-8 H.C.	365-HP 4-4-2 Rocket 455 V-8 H.C.	365-HP Rocket 455 V-8 H.C.	320-HP Rocket 455 V-8 H.C.	310-HP Rocket 455 V-8 (Reg. Fuel)	325-HP Force-Air Rocket 350 V-8 H.C.	310-HP Rocket 350 V-8 H.C.	250-HP Rocket 350 V-8 (Reg. Fuel)	155-HP Action-Line 6 (Reg. Fuel)	
Max. horsepower at rpm	400 at 4800	390 at 5000	375 at 4600	370 at 5200	365 at 5000	365 at 4600	320 at 4200	310 at 4200	325 at 5400	310 at 4800	250 at 4400	155 at 4200	
Max. torque at rpm (lb.-ft.)	500 at 3200	500 at 3200	510 at 3000	500 at 3600	500 at 3200	510 at 3000	500 at 2400	490 at 2400	360 at 3600	390 at 3200	355 at 2600	240 at 2000	
Displacement (cu. in.)	455								350			250	
Bore and stroke (in.)	4.125 x 4.250								4.057 x 3.385			3.875 x 3.530	
Compression ratio	10.25-to-1			10.50-to-1			10.25-to-1		9.00-to-1	10.50-to-1	10.25-to-1	9.00-to-1	8.50-to-1
Carburetor barrels (no.)	4				2			4		2		1	
Exhaust system (type)	Dual Outlets	Dual	Single	Dual		Single**	Dual	Single	Dual	Single***		Single	
Fuel recommended (type)	Premium						Regular		Premium			Regular	Regular
Fuel-tank capacity (gal.)	24.0	25.0	24.0	20.0		25.0 (23.0 Wagon)	20.0 (23.0 Wagon)	25.0	20.0 (23.0 Wagon, 25.0 Delta 88)			20.0 (23.0 Wagon)	
Crankcase oil capacity (qt.)	5*	4*	5*	4*			4*		4*			4*	
Cooling system capacity (qt.)	18.0	17.5	18.0	17.5			15.2		15.2			12.2	

## AVAILABILITY

Toronado	W34	—	Std.	—	—	—	—	—	—	—	—	—
Ninety-Eight	—	—	—	—	—	Std.	—	—	—	—	—	—
Delta 88 Royale	—	W33	—	—	—	L31	—	Std.	—	—	—	—
Delta 88 Custom	—	W33	—	—	—	L31	—	Std.	—	—	—	—
Delta 88	—	W33	—	—	—	L31	—	L30	—	—	Std.	—
Vista-Cruiser	—	—	—	—	—	L31	—	—	—	L74	Std.	—
4-4-2	—	—	—	W30	Std.	—	—	—	—	—	—	—
Cutlass Supreme	—	—	—	—	—	—	L33 or Y79	—	—	Std.	L65	—
Cutlass S	—	—	—	—	—	—	L33	—	W31	L74	Std. V-8	Std. L-6
Cutlass Sedans and Wagons	—	—	—	—	—	—	L33	—	—	L74	Std. V-8	Std. L-6
F-85	—	—	—	—	—	—	—	—	W31	L74	Std. V-8	Std. L-6

\*—1 qt. more with filter. \*\*—Dual in Vista-Cruiser. \*\*\*—Dual with 4-barrel carburetor and 3.42:1 or 3.91:1 ratio rear axle.

CREDIT - OLDSMOBILE  
HISTORY CENTER

000024966

920 TOWNSEND ST.  
LANSING, MI 48921

## 1970 Oldsmobile Escape from the ordinary!

Oldsmobile reserves the right to make changes at any time, without notice, in colors, materials, trim, equipment, specifications and models, and also to discontinue models.



MARK OF EXCELLENCE

SEVENTH - OLDSMOBILE  
HISTORY CENTER

# 1970 OLDSMOBILE

0024984

830 TOWNSEND ST.  
LANSING, MI 48221



**Salesmen's Prices, Equipment, Colors & Trims, Specifications**

Effective January 1, 1970

## **MODEL PRICES...**

**F-85**

**Cutlass**

**Cutlass S**

**Cutlass Supreme**

**4-4-2**

**Vista-Cruiser**

Lift  
Page



# MODEL PRICES . . . F-85, Cutlass, Cutlass S, Cutlass Supreme, 4-4-2, Vista-Cruiser

MODEL	MODEL CODE	MSRP a	DEST. CHG.b	TOTAL	LOCAL PRICE	MODEL	MODEL CODE	MSRP a	DEST. CHG.b	TOTAL	LOCAL PRICE
F-85 6 Sports Coupe	3177	\$2676				CUTLASS S V-8 Sports Coupe* Holiday Coupe*	3677	\$2907			
F-85 V-8 Sports Coupe*	3277	2787					3687	2970			
CUTLASS 6 Town Sedan Holiday Sedan Station Wagon	3569 3539 3535	2837 2968 3234				CUTLASS SUPREME Holiday Sedan Hardtop Coupe Convertible	4239	3226			
							4257	3151			
							4267	3335			
CUTLASS V-8 Town Sedan Holiday Sedan Station Wagon	3669 3639 3635	2948 3079 3344				4-4-2 Sports Coupe* Holiday Coupe* Convertible*	4477	3312			
							4487	3376			
							4467	3567			
CUTLASS S 6 Sports Coupe Holiday Coupe	3577 3587	2796 2859				VISTA-CRUISER 2-Seat Model 3-Seat Model	4855	3636			
							4865	3778			

a. Manufacturer's Suggested Retail Price. Includes reimbursement for Federal Excise Tax and Suggested Dealer New Vehicle Preparation Charge.

b. Destination Charge. \$

higher on models equipped with an Air Conditioner (C60).

\*Available as a W-Machine.

# Models . . . **F-85** . . . Equipment

3177 Sports Coupe (L-6)

3277 Sports Coupe (V-8)

**STANDARD EQUIPMENT**

- **Armrests**, Front-Door
- **Ashtray**, Instrument-Panel
- **Battery**, 45-Ampere-Hour/54-Plate (L-6) or 61-Ampere-Hour/66-Plate (V-8)
- **Brakes**, Front and Rear Drum
- **Cigar Lighter**, Instrument-Panel
- **Delcotron**, 37-Ampere
- **Engine**, 155-hp Action-Line 6 Regular-Fuel (L-6)
- **Engine**, 250-hp Rocket 350 V-8 Regular-Fuel—2-bbl. carburetor (V-8)
- **Floor Covering**, Color-Keyed Heavy-Duty-Vinyl
- **Frame**, Torque-Beam
- **Lamp**, Dome
- **Lamp Switches**, Automatic Interior-
- **Radio Antenna**, Windshield
- **Seat**, Bench Front
- **Seat Head Restraints**, Dual Front-
- **Seat Lap Belts**, 3 Front- and 3 Rear-
- **Seat Shoulder Belts**, 2 Front-
- **Tires**, F78 x 14" (L-6) or G78 x 14" (V-8) Blackwall Bias-Belted
- **Transmission**, Fully Synchronized 3-Speed Column-Shift Manual
- **Wheels**, 14 x 6" JJ
- **Wheel Hubcaps**, Chrome
- **Windows**, Crank-Operated Vent
- **Windshield Wipers**, Recessed P-A

G92	.....	\$ 42.13
<b>G88 Axle Package</b> , 3.91-to-1 Performance Rear—V-8 model. See Power Teams. G88 Axle Package includes:		
G88 Axle	.....	No Chg.
G80 Anti-Spin Axle	.....	\$ 42.13
V01 Heavy-Duty Radiator	.....	\$ 21.06
	Total	\$ 63.19
<b>G92 Axle Package</b> , 3.42-to-1 Performance Rear—V-8 model. See Power Teams. G92 Axle Package includes:		
G92 Axle	.....	No Chg.
G80 Anti-Spin Axle	.....	\$ 42.13
V02 Heavy-Duty Radiator	.....	\$ 15.80
	Total	\$ 57.93
<b>J50 Brakes</b> , Pedal-Ease Power—N.A. with JL2 or W31	.....	\$ 41.60
<b>JL2 Brakes</b> , Power with Front Disc—N.A. with J50 or W31	.....	\$ 64.25
<b>K30 Cruise Control</b> , Automatic—M38 required. V-8 model	.....	\$ 57.93
<b>L74 Engine</b> , 310-hp Rocket 350 V-8 H.C. (4-bbl. carburetor)—Included in W45. N10 required with G88, G92, and/or W45. N.A. with W31. V-8 model. See Power Teams	.....	\$ 47.39
<b>M14 Transmission</b> , Fully Synchronized 3-Speed Floor-Shift Heavy-Duty—Includes Hurst Shifter. V-8 model. See Power Teams	.....	\$ 84.26
<b>M20 Transmission</b> , Fully Synchronized 4-Speed Floor-Shift Wide-Ratio—Includes Hurst Shifter. V-8 model. See Power Teams	.....	\$184.80
<b>M21 Transmission</b> , Fully Synchronized 4-Speed Floor-Shift Close-Ratio—Includes Hurst Shifter. V-8 model. See Power Teams	.....	\$184.80
<b>M38 Transmission</b> , Turbo Hydra-matic 350. See		

<b>P05 Wheels</b> , Super Stock I—N.A. with W45. V-8 model	.....	\$ 90.58
<b>P06 Wheel Trim Rings</b> , Chrome—FE2 or PC2 required—V-8 model	.....	\$ 21.06
<b>P26 Tires</b> , Dual-White-Stripe Bias-Belted—N.A. with W45:		
F78 x 14", L-6 model	.....	\$ 28.44
G78 x 14", V-8 model	.....	\$ 30.54
<b>PK5 Tires</b> , G70 x 14" Blackwall Wide-Oval Bias-Belted—With raised white letters. Included in W31:		
L-6 model	.....	\$103.21; V-8 model
V-8 model	.....	\$ 88.47
<b>PX8 Tires</b> , G70 x 14" Single-White-Stripe Wide-Oval Bias-Belted:		
L-6 model	.....	\$ 76.88; V-8 model
V-8 model	.....	\$ 62.14
<b>T44 Hood Lock</b> , Interior-Operated	.....	\$ 10.53
<b>T81 Headlamp Off-Delay Control</b> , Night-Watch—N.A. with U21	.....	\$ 12.64
<b>U15 Safety Sentinel</b>	.....	\$ 11.59
<b>U21 Rocket Rally Pac</b> —Includes U35. N.A. with T81. V-8 model	.....	\$ 84.26
<b>U35 Clock</b> , Electric—Included in U21	.....	\$ 16.85
<b>U57 Stereo Tape Player</b> —Includes U80 with U63. U58 or U63 required:		
With U58	.....	\$116.91; With U63
With U63	.....	\$133.76
<b>U58 Radio</b> , AM-FM Stereophonic—Includes U80	.....	\$238.02
<b>U63 Radio</b> , Deluxe Pushbutton	.....	\$ 69.51
<b>U80 Radio Speaker</b> , Bi-Phonic Rear—Included with U57 and U58	.....	\$ 16.85
<b>W25 Hood</b> , Dual-Intake Force-Air Fiberglass—Includes special hood paint. Included in W31 and W45. N.A. otherwise	.....	\$157.98
<b>W27 Axle Carrier and Cover</b> , Aluminum Rear—G80 and W31 or W45 required. JL2 required with W45. V-8 model	.....	\$157.98

Yellow front and rear bumpers; blacked-out grille; custom-painted Super Stock II Wheels; G70 x 14" wide-oval blackwall tires; and bold Rallye 350 fender decals. V-8 model. See Power Teams. W45 Package includes:		
W45	.....	\$
D35	.....	\$ 22.12
FE2 (except wheels)	.....	\$ 13.27
L74	.....	\$ 47.39
N10	.....	\$ 30.23
N34	.....	\$ 31.60
W25	.....	\$157.98
W35	.....	\$ 73.72
	Total	\$

- Y60 Lamps and Mirrors**, Convenience—Includes trunk and underhood lamps; instrument-panel ashtray, courtesy, glove compartment, and map lamps; instrument-panel-control lighting; visor vanity mirror; and rearview mirror with map lamp
- ..... \$ 28.02
- Y72 Engine-Cooling Equipment**, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron. N.A. with G88 or G92, M21, or W31:
- With C60... \$ 21.06; Without C60... \$ 57.93

**SPECIAL USE EQUIPMENT***(For usage, refer to Product Selling Literature)*

- F41 Suspension, Heavy-Duty**—For strenuous service: trailer towing, continuous heavy trunk loads, and when most driving is on secondary and rural roads. Includes heavy-duty front and rear springs and front stabilizer bar and FG2 shock absorbers. G66

## FACTORY-INSTALLED EQUIPMENT

- A01 Windows, Soft-Ray Tinted**—Includes A02 \$ 38.97
- A02 Windshield, Soft-Ray Tinted**—Included in A01 \$ 26.33
- A41 Seat Adjuster, 4-Way Power** \$ 73.72
- A90 Trunk-Lid Latch, Power** \$ 14.74
- AK1 Seat Belts, Deluxe Front and Rear Lap and Front Shoulder** \$ 13.69
- A54 Seat Shoulder Belts, Deluxe Rear**—AK1 required \$ 26.33
- A55 Seat Shoulder Belts, Rear**—N.A. with AK1 \$ 23.17
- AU3 Door Locks, Power**—N.A. with AU5 \$ 44.76
- AU5 Door Locks and Front-Seat-Backrest Lock Releases, Power**—N.A. with AU3 \$ 68.46
- B30 Floor Carpeting, Wall-to-Wall** \$ 18.96
- B32 Floor Mats, Auxiliary Front** \$ 7.37
- B33 Floor Mats, Auxiliary Rear** \$ 7.16
- B50 Seat Cushion, Foam-Padded Front** \$ 9.48
- B90 Moldings, Chrome Side-Window Frame** \$ 21.06
- B93 Moldings, Chrome Door-Edge Guard** \$ 5.27
- BC1 Instrument-Panel Trim, Wood-Grain-Vinyl** \$ 10.53
- C08 Rooftop Covering, Vinyl**—Includes Chrome Roof Drip Moldings. N.A. with W45. \$102.16
- C50 Window Defogger, Rear** \$ 26.33
- C60 Air Conditioner, Four-Season**—Includes heavy-duty radiator. N.A. with G88, G92, M21, or W31. \$375.99
- D33 Mirror, Remote-Control Outside Rearview**—N.A. with D35, W31, or W45. \$ 10.53
- D35 Mirrors, Sports-Styled Outside Rearview**—Includes left-hand mirror with remote control and right-hand mirror. Color-matched to car color. Included in W31 and W45. N.A. with D33. \$ 22.12
- D99 Finish, Two-Tone Magic-Mirror**—N.A. with W45. \$ 31.07
- G66 Shock Absorbers, Superlift Rear**—For trailer towing. M38 required with FE2. \$ 42.13
- G80 Axle, Anti-Spin Rear**—Included in G88 and

- Power Teams:  
L-6 model. \$195.36; V-8 model. \$205.92
- N10 Exhaust System, Dual**—Included in W31 and W45. Required in L74 with G88 or G92. V-8 model. \$ 30.23
- N30 Steering Wheel, Deluxe**—N.A. with W45 \$ 15.80
- N33 Steering Wheel, Tilt-Away**—Includes standard steering wheel, or N34 with W45; otherwise N30, N34, or N42 must be ordered if desired. M14, M20, M21, or M38 required \$ 45.29
- N34 Steering Wheel, Custom-Sport**—Included in W45 \$ 31.60
- N42 Steering Wheel with Instant-Horn, Deluxe**—N.A. with W45. \$ 31.60
- N47 Steering, Vari-Ratio Power** \$105.32
- N66 Wheels, Super Stock II**—N.A. with W45. V-8 model. \$ 73.72
- N95 Wheels, Simulated-Wire**—N.A. with W45 \$ 73.72
- P01 Wheel Discs, Chrome**—N.A. with W45 \$ 21.06
- P02 Wheel Discs, Deluxe**—N.A. with W45 \$ 47.39

- W31 W-Machine Package**—Includes 325-hp Rocket 350 V-8 H.C. Engine with Force-Air Induction, aluminum intake manifold, heavy-duty clutch, manual front disc brakes, light-weight body insulation, dual-air-scoop fiberglass hood, special hood and body-side paint stripes, and "W" emblems on front fenders. M14, M20, M21, or M38 required. V-8 model. See Power Teams. W31 Package includes:  
W31 \$368.62  
D35 \$ 22.12  
FE2 (without N66 or P05) \$ 18.54  
G88 \$ 63.19  
G92 (instead of G88) \$ 57.93  
N10 \$ 39.23  
PK5 \$ 88.47  
Total with G88 \$591.17  
Total with G92 \$685.91
- W35 Spoiler, Rear-Deck-Lid Air**—Included in W45. \$ 73.72
- W45 Rallye 350 Appearance Package**—Includes Sebring Yellow exterior paint with black and orange decals for hood, fender peaks, and rear body silhouette; urethane-coated Sebring

- shock absorbers available. N.A. with W45 \$ 21.06
- FE2 Suspension, 4-4-2 Rally-Sports**—Includes heavy-duty front and rear springs, shock absorbers, and stabilizer bars; and heavy-duty rear-suspension lower control arms; plus PC2 except with W45. Included in W31 and W45. N.A. with FG2; nor G66 with manual transmission. V-8 model:  
Without N66 or P05 \$ 18.54  
With N66 or P05 \$ 13.27
- FG2 Shock Absorbers, Firm-Ride-Control Front and Rear**—For considerable secondary and rural road driving. Included in F41. N.A. with FE2 or W45. \$ 5.27
- M55 Oil Cooler, Automatic Transmission Auxiliary**—For trailer towing. M38 required. V-8 model. \$ 15.80
- PC2 Wheels, Heavy-Duty 14 x 7" JJ**—Included in FE2. N.A. with N66 or P05. V-8 model. \$ 5.27
- T60 Battery, Heavy-Duty**—N.A. with W31. V-8 model. \$ 7.37
- U89 Wiring Harness, Trailer Electrical**... \$ 15.93

## FACTORY-INSTALLED POWER TEAMS

Axle Ratio	Engine		Std. L-6				Std. V-8				L74				W31				W45					
	Trans.		Std.	M38	Std.	M14	M20	M21	M38	Std.	M14	M20	M21	M38	M14	M20	M21	M38	Std.	M14	M20	M21	M38	
2.56 (G96)									S															
2.78 (G95)			S	S	A	A			A	A	A													
3.08 (G90)			Aa	Aa	S	S	S		Ab	S	S	S												
3.23 (G91)			A	A	A	A	A		A	A	A	A							Sf	Sf	Sf			Sf
3.42 (G92)					Ac	Ac	Ac	Sc	Ac	Ace	Ace	Ace	See	Ac	Ac	Ac	Ac	Ac	Ac	Ac	Ac	Ac	Ac	Ac
3.91 (G88)					Ac	Ac		Ac	Ac	Ace	Ace		Ace	Ac	So	So	So	So	Ac	Ac			Ac	Ac

S—Standard, A—Available, a—Standard with C60 or Y72, b—For trailer towing, c—Extra-cool performance rear axle with heavy-duty shafts. Package includes heavy-duty radiator and G80. N.A. with C60 or Y72, d—N.A. with D33, J50 or J12, e—N10 required, f—N.A. with C08, D33, D99, F41, FG2, N30, N42, N66, N95, P01, P02, P05, or P26.  
NOTE: Dealer-installed ratios, 4.33-, 4.66-, and 5.00-to-1, available with V-8 power teams, except with C60 or Y72.

# Models . . . **CUTLASS** . . . Equipment

3569 Town Sedan (L-6)  
3669 Town Sedan (V-8)

3539 Holiday Sedan (L-6)  
3639 Holiday Sedan (V-8)

3535 Station Wagon (L-6)  
3635 Station Wagon (V-8)

## STANDARD EQUIPMENT

- **Armrests**, Deluxe Front and Rear (with bright accent moldings)
- **Ashtrays**, Instrument-Panel and Rear-Armrest
- **Battery**, 45-Ampere-Hour/54-Plate (L-6) or 61-Ampere-Hour/66-Plate (V-8)
- **Brakes**, Front and Rear Drum (Sedans)
- **Brakes**, Power Front Disc and Rear Drum (Station Wagons)
- **Cigar Lighter**, Instrument-Panel
- **Delcotron**, 37-Ampere
- **Engine**, 155-hp Action-Line 6 Regular-Fuel (L-6)
- **Engine**, 250-hp Rocket 350 V-8 Regular-Fuel—2-bbl. carburetor (V-8)
- **Floor Carpeting**, Wall-to-Wall (plus carpeted door lower panels)
- **Frame**, Torque-Beam
- **Lamp**, Dome
- **Lamp Switches**, Automatic Front-Door Interior
- **Moldings**, Chrome Lower Body-Side, Rear-Fender and Wheel-Opening
- **Moldings**, Chrome Roof Drip (Holiday Sedans)
- **Moldings**, Chrome Side-Window Frame (Town Sedans and Station Wagons)
- **Radio Antenna**, Windshield

- B33 Floor Mats**, Auxiliary Rear.....\$ 7.16
- B39 Floor Carpeting**, Deep-Pile Cargo-Area—Station Wagons.....\$ 15.80
- B50 Seat Cushion**, Foam-Padded Front...\$ 9.48
- B80 Moldings**, Chrome Roof Drip—Included in C08 for Town Sedans. Town Sedans and Station Wagons.....\$ 13.69
- B84 Moldings**, Bodyguard and Fender—With colored vinyl inserts.....\$ 12.84
- B93 Moldings**, Chrome Door-Edge Guard...\$ 8.95
- BC1 Instrument-Panel Trim**, Wood-Grain-Vinyl.....\$ 10.53
- C08 Rooftop Covering**, Vinyl—Includes B80 on Town Sedan. Sedans.....\$102.16
- C28 Tailgate**, Drop-or-Swing—Station Wagons.....\$ 42.13
- C50 Window Defogger**, Rear—Sedans...\$ 26.33
- C51 Window Air Deflector**, Tailgate—Station Wagons.....\$ 20.84
- C60 Air Conditioner**, Four-Season—Includes heavy-duty radiator. N.A. with G88 or G92.....\$375.99
- D33 Mirror**, Remote-Control Outside Rearview.....\$ 10.53
- D99 Finish**, Two-Tone Magic-Mirror: Sedans.....\$ 31.07 Station Wagons.....\$ 21.38

- N10 Exhaust System**, Dual—L74 required. Required in L74 with G88 or G92. Included in L33. V-8 Sedans.....\$ 30.23
- N33 Steering Wheel**, Tilt-Away—M38 or M40 required.....\$ 45.29
- N34 Steering Wheel**, Custom-Sport.....\$ 15.80
- N42 Steering Wheel with Instant-Horn**, Deluxe.....\$ 15.80
- N47 Steering**, Vari-Ratio Power.....\$105.32
- N66 Wheels**, Super Stock II—V-8 Sedans \$ 73.72
- N95 Wheels**, Simulated-Wire.....\$ 73.72
- P01 Wheel Discs**, Chrome.....\$ 21.06
- P02 Wheel Discs**, Deluxe.....\$ 47.39
- P05 Wheels**, Super Stock I—V-8 Sedans \$ 90.58
- P06 Wheel Trim Rings**, Chrome—PC2 required. V-8 Sedans.....\$ 21.06
- P26 Tires**, Dual-White-Stripe Bias-Belted: F78 x 14" (L-6 Sedans).....\$ 28.44 G78 x 14" (V-8 Sedans).....\$ 30.54 G78 x 14" (Wagons w/o C28).....\$ 30.54 H78 x 14" (Wagons with C28).....\$ 33.70
- T44 Hood Lock**, Interior-Operated.....\$ 10.53
- T81 Headlamp Off-Delay Control**, Night-Watch—N.A. with U21.....\$ 12.64

- V55 Luggage Carrier**, Chrome Rooftop—Station Wagons.....\$ 63.19
- V56 Lock and Trim**, Luggage Locker—Station Wagons.....\$ 12.64
- Y60 Lamps and Mirrors**, Convenience—Includes underhood lamp; instrument-panel ashtray, courtesy, glove compartment, and map lamps; rear-door automatic interior-lamp switches; instrument-panel-control lighting; visor vanity mirror; and rearview mirror with map lamp; plus trunk lamp in Sedans: Sedans.....\$ 34.33 Station Wagons.....\$ 32.65
- Y72 Engine-Cooling Equipment**, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron. N.A. with G88 or G92: With C60...\$ 21.06; Without C60...\$ 57.93

## SPECIAL USE EQUIPMENT

(For usage, refer to Product Selling Literature)

- F41 Suspension**, Heavy-Duty—For strenuous service: trailer towing, continuous heavy trunk loads, and when most driving is on secondary and rural roads. Includes heavy-duty front and rear springs and front stabil-

- **Seat, Bench Front** (with bright moldings in Holiday Sedans) ..... \$ 42.13
- **Seat Head Restraints, Dual Front-**
- **Seat Lap Belts, 3 Front- and 3 Rear-**
- **Seat Shoulder Belts, 2 Front-**
- **Steering Wheel, Deluxe**
- **Tires, Blackwall Bias-Belted:** F78 x 14" (L-6 Sedans), G78 x 14" (V-8 Sedans and L-6 and V-8 Station Wagons with standard tailgate), H78 x 14" (L-6 and V-8 Station Wagons with C28)
- **Transmission, Fully Synchronized 3-Speed Column-Shift Manual**
- **Wheels, 14 x 6" JJ**
- **Wheel Hubcaps, Chrome**
- **Windows, Crank-Operated Vent**
- **Windshield Wipers, Recessed-Park**

#### FACTORY-INSTALLED EQUIPMENT

- A01 **Windows, Soft-Ray Tinted**—Includes A02 ..... \$ 38.97
- A02 **Windshield, Soft-Ray Tinted**—Included in A01 ..... \$ 26.33
- A31 **Windows, Power Slide** ..... \$105.32
- A33 **Window, Power Tailgate**—Station Wagons ..... \$ 34.76
- A41 **Seat Adjuster, 4-Way Power** ..... \$ 73.72
- A90 **Trunk-Lid Latch, Power**—Sedans... \$ 14.74
- AK1 **Seat Belts, Deluxe Front and Rear Lap and Front Shoulder** ..... \$ 13.69
- AS4 **Seat Shoulder Belts, Deluxe Rear**—AK1 required ..... \$ 26.33
- AS5 **Seat Shoulder Belts, Rear**—N.A. with AK1 ..... \$ 23.17
- AU3 **Door Locks, Power**—For all doors... \$ 68.46
- B32 **Floor Mats, Auxiliary Front** ..... \$ 7.37

- G66 **Shock Absorbers, Superlift Rear**—For trailer towing. N.A. with FG2 ..... \$ 42.13
- G80 **Axle, Anti-Spin Rear**—Included in G88 and G92 ..... \$ 42.13
- G88 **Axle Package, 3.91-to-1 Performance Rear**—V-8 Sedans. See Power Teams. G88 Axle Package includes:  
G88 Axle ..... No Chg.  
G80 Anti-Spin Axle ..... \$ 42.13  
V01 Heavy-Duty Radiator ..... \$ 21.06  
Total ..... \$ 63.19
- G92 **Axle Package, 3.42-to-1 Performance Rear**—V-8 Sedans. See Power Teams. G92 Axle Package includes:  
G92 Axle ..... No Chg.  
G80 Anti-Spin Axle ..... \$ 42.13  
V02 Heavy-Duty Radiator ..... \$ 15.80  
Total ..... \$ 57.93
- J50 **Brakes, Pedal-Ease Power**—N.A. with JL2 ..... \$ 41.60
- JL2 **Brakes, Power with Front Disc**—N.A. with J50. Sedans ..... \$ 64.25
- K30 **Cruise Control, Automatic**—M38 or M40 required. V-8 models ..... \$ 57.93
- L33 **Engine, 320-hp Rocket 455 V-8 H.C.** (2-bbl. carburetor)—Includes N10. M40 required. V-8 models. See Power Teams ..... \$141.13
- L74 **Engine, 310-hp Rocket 350 V-8 H.C.** (4-bbl. carburetor)—N10 required with G88 or G92. V-8 models. See Power Teams ..... \$ 47.39
- M38 **Transmission, Turbo Hydra-matic 350**—N.A. with L33—See Power Teams: L-6 models... \$195.36; V-8 models... \$205.92
- M40 **Transmission, Turbo Hydra-matic 400**—L33 required. V-8 models. See Power Teams ..... \$227.04

- U15 **Safety Sentinel** ..... \$ 11.59
- U21 **Rocket Rally Pac**—Includes U35. N.A. with T81. V-8 models ..... \$ 84.26
- U35 **Clock, Electric**—Included in U21 ..... \$ 16.85
- U57 **Stereo Tape Player**—Includes U80 with U63. U58 or U63 required:  
With U58... \$116.91; With U63... \$133.76
- U58 **Radio, AM-FM Stereophonic**—Includes U80 ..... \$238.02
- U63 **Radio, Deluxe Pushbutton** ..... \$ 69.51
- U80 **Radio Speaker, Bi-Phonic Rear**—Included with U57 and U58 ..... \$ 16.85

- izer bar, and FG2 shock absorbers. G66 shock absorbers available ..... \$ 21.06
- FG2 **Shock Absorbers, Firm-Ride-Control Front and Rear**—For considerable secondary and rural road driving. Included in F41... \$ 5.27
- M55 **Oil Cooler, Automatic Transmission Auxiliary**—For trailer towing. M38 or M40 required. V-8 models ..... \$ 15.80
- PC2 **Wheels, Heavy-Duty 14 x 7" JJ**—N.A. with N66 or P05. V-8 Sedans ..... \$ 5.27
- T60 **Battery, Heavy-Duty**—N.A. with L33. V-8 models ..... \$ 7.37
- U89 **Wiring Harness, Trailer Electrical**... \$ 10.53

#### FACTORY-INSTALLED POWER TEAMS

Axle Ratio	Engine		Std. L-6		Std. V-8		L33	L74	
	Trans.		Std.	M38	Std.	M38	M40	Std.	M38
2.56 (G96)						Se	S		Ae
2.78 (G95)			S	S	A	Af	A	A	S
3.08 (G90)			Aa	Aa	S	Ab	A	S	Ab
3.23 (G91)			Ae	Ae	Ae	Ae	Ae	Ae	Ae
3.42 (G92)					Ace	Ace		Acde	Acde
3.91 (G88)					Ace	Ace		Acde	Acde

S—Standard. A—Available. a—Standard with C60 or Y72. b—For trailer towing. c—Extra-cost performance axle with heavy-duty shafts. Package includes heavy-duty radiator and G80. N.A. with C60 or Y72. d—N10 required. e—For Sedans only. f—Standard in Station Wagon.  
NOTE: Dealer-installed ratios, 4.33-, 4.66-, and 5.00-to-1, available with V-8 power teams for Sedans, except L33 with M40. N.A. with C60 or Y72.

# Models . . . **CUTLASS S** . . . Equipment

## 3577 Sports Coupe (L-6)

### STANDARD EQUIPMENT

- **Armrests**, Deluxe Front and Rear (with bright accent moldings)
- **Ashtrays**, Instrument-Panel and Rear-Armrest
- **Battery**, 45-Ampere-Hour/54-Plate (L-6) or 61-Ampere-Hour/66-Plate (V-8)
- **Brakes**, Front and Rear Drum
- **Cigar Lighter**, Instrument-Panel
- **Delcotron**, 37-Ampere
- **Engine**, 155-hp Action-Line 6 Regular-Fuel (L-6)
- **Engine**, 250-hp Rocket 350 V-8 Regular-Fuel—2-bbl. carburetor (V-8)
- **Floor Carpeting**, Wall-to-Wall
- **Frame**, Torque-Beam
- **Lamp**, Dome
- **Lamp Switches**, Automatic Interior-
- **Louver Grilles**, Chrome Hood
- **Moldings**, Chrome Body-Side, Fender, and Wheel-Opening
- **Radio Antenna**, Windshield
- **Seat**, Bench Front (with bright moldings)
- **Seat Cushions**, Foam-Padded Front- and Rear-
- **Seat Head Restraints**, Dual Front-
- **Seat Lap Belts**, 3 Front- and 3 Rear-
- **Seat Shoulder Belts**, 2 Front-
- **Steering Wheel**, Deluxe
- **Tires**, F78 x 14" (L-6) or G78 x 14" (V-8) Blackwall Bias-Belted
- **Transmission**, Fully Synchronized 3-Speed Column-Shift Manual
- **Ventilation**, Flo-Thru Body (Holiday Coupes)
- **Wheels**, 14 x 6" JJ
- **Wheel Hubcaps**, Chrome
- **Windows**, Crank-Operated Vent (Sports Coupes)
- **Windshield Wipers**, Recessed-Park

### FACTORY-INSTALLED EQUIPMENT

- A01 **Windows**, Soft-Ray Tinted—Includes A02 \$ 28.97
- A02 **Windshield**, Soft-Ray Tinted—Included in A01 \$ 26.33

## 3677 Sports Coupe (V-8)

- D55 **Console**, Sports—With manual transmission, includes lockable map case. With automatic transmission, also includes floor-shift transmission control, map case lamp, and rear console lamp. A51 and M14, M20, M21, M38, or M40 required. \$ 61.09
- D99 **Finish**, Two-Tone Magic-Mirror—N.A. with W45. \$ 31.07
- G66 **Shock Absorbers**, Superlift Rear—For trailer towing. M38 or M40 required with FE2. \$ 42.13
- G80 **Axle**, Anti-Spin Rear—Included in G88 and G92. \$ 42.13
- G88 **Axle Package**, 3.91-to-1 Performance Rear—V-8 models. See Power Teams. G88 Axle Package includes:  
G88 Axle. No Chg.  
G80 Anti-Spin Axle. \$ 42.13  
V01 Heavy-Duty Radiator. \$ 21.06  
Total. \$ 63.19
- G92 **Axle Package**, 3.42-to-1 Performance Rear—V-8 models. See Power Teams. G92 Axle Package includes:  
G92 Axle. No Chg.  
G80 Anti-Spin Axle. \$ 42.13  
V02 Heavy-Duty Radiator. \$ 15.80  
Total. \$ 57.93
- J50 **Brakes**, Pedal-Ease Power—N.A. with J12 or W31. \$ 41.60
- JL2 **Brakes**, Power with Front Disc—N.A. with J50 or W31. \$ 64.25
- K30 **Cruise Control**, Automatic—M38 or M40 required. V-8 models. \$ 57.93
- L33 **Engine**, 320-hp Rocket 455 V-8 H.C. (2-bbl. carburetor)—Includes N10. M40 required. N.A. with W31 or W45. V-8 models. See Power Teams. \$141.13
- L74 **Engine**, 310-hp Rocket 350 V-8 H.C. (4-bbl. carburetor)—Included in W45. N10 required with G88, G92, and/or W45. N.A. with W31. V-8 models. See Power Teams. \$ 47.99

## 3587 Holiday Coupe (L-6)

- N95 **Wheels**, Simulated-Wire—N.A. with W45 \$ 73.72
- P01 **Wheel Discs**, Chrome—N.A. with W45 \$ 21.06
- P02 **Wheel Discs**, Deluxe—N.A. with W45. \$ 47.99
- P05 **Wheels**, Super Stock I—N.A. with W45. V-8 models. \$ 90.58
- P06 **Wheel Trim Rings**, Chrome—FE2 or PC2 required. V-8 models. \$ 21.06
- P26 **Tires**, Dual-White-Stripe Bias-Belted—N.A. with W45:  
F78 x 14", L-6 \$28.44; G78 x 14", V-8 \$ 30.54
- PK5 **Tires**, G70 x 14" Blackwall Wide-Oval Bias-Belted—With raised white letters. Included in W31:  
L-6 models. \$103.21; V-8 models. \$ 88.47
- PX8 **Tires**, G70 x 14" Single-White-Stripe Wide-Oval Bias-Belted:  
L-6 models. \$ 76.88; V-8 models. \$ 62.14
- T44 **Hood Lock**, Interior-Operated. \$ 10.53
- T81 **Headlamp Off-Delay Control**, Night-Watch—N.A. with U21. \$ 12.64
- U15 **Safety Sentinel**. \$ 11.59
- U21 **Rocket Rally Pac**—Includes U35. N.A. with T81. V-8 models. \$ 84.26
- U35 **Clock**, Electric—Included in U21. \$ 16.85
- U57 **Stereo Tape Player**—Includes U80 with U63. U58 or U63 required:  
With U58. \$116.91; With U63. \$133.76
- U58 **Radio**, AM-FM Stereophonic—Includes U80 \$238.02
- U63 **Radio**, Deluxe Pushbutton. \$ 69.51
- U80 **Radio Speaker**, Bi-Phonic Rear—Included with U57 and U58. \$ 16.85
- W25 **Hood**, Dual-Intake Force-Air Fiberglass—Includes special hood paint. Included in W31 and W45. L74 required. N.A. with Y73. V-8 models. \$157.98
- W26 **Console with Dual-Gate Shifter**, Sports—Includes Hurst Shifter, lockable map case

## 3687 Holiday Coupe (V-8)

- W45 **Rallye 350 Appearance Package**—Includes Sebring Yellow exterior paint with black and orange decals for hood, fender peaks, and rear body silhouette; urethane-coated Sebring Yellow front and rear bumpers; blacked-out grille; custom-painted Super Stock II Wheels; G70 x 14" wide-oval blackwall tires; and bold Rallye 350 fender decals. V-8 models. See Power Teams. W45 Package includes:  
W45. \$  
D35. \$ 22.12  
FE2 (except wheels). \$ 13.27  
L74. \$ 47.39  
N10. \$ 30.23  
N34. \$ 31.60  
W25. \$157.98  
W35. \$ 73.72  
Total. \$
- Y60 **Lamps and Mirrors**, Convenience—Includes trunk and underhood lamps; instrument-panel ashtray and glove compartment lamps; instrument-panel courtesy and map lamps (included in D55 with manual transmission); instrument-panel-control lighting; visor vanity mirror; and rearview mirror with map lamp. \$ 28.02
- Y72 **Engine-Cooling Equipment**, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron. N.A. with G88 or G92, M21, or W31:  
With C60. \$ 21.06; Without C60. \$ 57.93
- Y73 **Paint Stripes**, G. T. Hood—N.A. with W25, W31, or W45. \$ 10.53

### SPECIAL USE EQUIPMENT

(For usage, refer to Product Selling Literature)

- F41 **Suspension**, Heavy-Duty—For strenuous service; trailer towing, continuous heavy trunk loads, and when most driving is on

- A31 Windows, Power Side**..... \$105.32  
**A41 Seat Adjuster, 4-Way Power**—For bench seat. N.A. with A51..... \$ 73.72  
**A46 Seat Adjuster, 4-Way Power**—For left-hand bucket seat. A51 required..... \$ 73.72  
**A51 Seats, Strato Bucket**..... \$ 68.46  
**A90 Trunk-Lid Latch, Power**..... \$ 14.74  
**AK1 Seat Belts, Deluxe Front and Rear Lap and Front Shoulder**..... \$ 13.69  
**A54 Seat Shoulder Belts, Deluxe Rear**—AK1 required..... \$ 26.33  
**A55 Seat Shoulder Belts, Rear**—N.A. with AK1..... \$ 23.17  
**AU3 Door Locks, Power**—N.A. with A05..... \$ 44.76  
**AU5 Door Locks and Front-Seat-Backrest Lock Releases, Power**—N.A. with AU3..... \$ 68.46  
**B32 Floor Mats, Auxiliary Front**..... \$ 7.37  
**B33 Floor Mats, Auxiliary Rear**..... \$ 7.16  
**B80 Moldings, Chrome Roof Drip**—B85 required. Included in C08..... \$ 13.69  
**B84 Moldings, Bodyguard and Fender**—With colored vinyl inserts. N.A. with W31 or W45..... \$ 12.84  
**B85 Moldings, Chrome Side-Window Sill**—B80 required..... \$ 19.48  
**B90 Moldings, Chrome Side-Window Frame**—Sports Coupes..... \$ 21.06  
**B93 Moldings, Chrome Door-Edge Guard**..... \$ 5.27  
**BC1 Instrument-Panel Trim, Wood-Grain-Vinyl**..... \$ 10.53  
**C08 Rooftop Covering, Vinyl**—Includes B80. N.A. with W45..... \$102.16  
**C50 Window Defogger, Rear**..... \$ 26.33  
**C80 Air Conditioner, Four-Season**—Includes heavy-duty radiator. N.A. with G88 or G92, M21, or W31..... \$375.99  
**D15 Armrest Backplates, Deluxe**—Includes door plates, plus rear plates in Sports Coupes: Spt. Cpe..... \$ 12.84; Hol. Cpe..... \$ 6.32  
**D33 Mirror, Remote-Control Outside Rearview**—N.A. with D35, W31, or W45..... \$ 10.53  
**D35 Mirrors, Sports-Styled Outside Rearview**—Includes left-hand mirror with remote control and right-hand mirror. Color-matched to car color. Included in W31 and W45. N.A. with D33..... \$ 22.12

- M14 Transmission, Fully Synchronized 3-Speed Floor-Shift Heavy-Duty**—Includes Hurst Shifter. V-8 model. See Power Teams \$ 84.26  
**M20 Transmission, Fully Synchronized 4-Speed Floor-Shift Wide-Ratio**—Includes Hurst Shifter. V-8 model. See Power Teams \$184.80  
**M21 Transmission, Fully Synchronized 4-Speed Floor-Shift Close-Ratio**—Includes Hurst Shifter. V-8 model. See Power Teams \$184.80  
**M38 Transmission, Turbo Hydra-matic 350**—See Power Teams: L-6 model..... \$195.36; V-8 model..... \$205.92  
**M40 Transmission, Turbo Hydra-matic 400**—L33 required. V-8 models. See Power Teams \$227.04  
**N10 Exhaust System, Dual**—Included in L33, W31, and W45. Required in L74 with G88 or G92. V-8 models..... \$ 30.23  
**N33 Steering Wheel, Tilt-Away**—M14, M20, M21, M38, or M40 required..... \$ 45.29  
**N34 Steering Wheel, Custom-Sport**—Included in W45..... \$ 15.80  
**N42 Steering Wheel with Instant-Horn, Deluxe**—N.A. with W45..... \$ 15.80  
**N47 Steering, Vari-Ratio Power**..... \$105.32  
**N66 Wheels, Super Stock II**—N.A. with W45. V-8 models..... \$ 73.72

- with lamp, and rear console lamp. A51 and M38 or M40 required..... \$ 76.88  
**W27 Axle Carrier and Cover, Aluminum Rear**—G80 and W31 or W45 required. JL2 required with W45. V-8 models..... \$157.98  
**W31 W-Machine Package**—Includes 325-hp Rocket 350 V-8 H.C. Engine with Force-Air Induction, aluminum intake manifold, heavy-duty clutch, manual front disc brakes, lightweight body insulation, dual-air-scoop fiberglass hood, special hood paint, special body-side paint stripes (in place of standard chrome moldings), and "W" emblems on front fenders. M14, M20, M21, or M38 required. V-8 models. See Power Teams. W31 Package includes:  
 W31..... \$368.62  
 D35..... \$ 22.12  
 FE2 (without N66 or P05)..... \$ 18.54  
 G88..... \$ 63.19  
 G92 (instead of G88)..... \$ 57.93  
 N10..... \$ 30.23  
 PK5..... \$ 88.47  
 Total with G88..... \$591.17  
 Total with G92..... \$585.91  
**W35 Spoiler, Rear-Deck-Lid Air**—Included in W45..... \$ 73.72

- secondary and rural roads. Includes heavy-duty front and rear springs and front stabilizer bar, and FG2 shock absorbers. G66 shock absorbers available. N.A. with W45..... \$ 21.06  
**FE2 Suspension, 4-4-2 Rally-Sports**—Includes heavy-duty front and rear springs, shock absorbers, and stabilizer bars; and heavy-duty rear-suspension lower control arms; plus PC2, except with W45. Included in W31 and W45. N.A. with FG2; nor G66 with manual transmission. V-8 models:  
 Without N66 or P05..... \$ 18.54  
 With N66 or P05..... \$ 13.27  
**FG2 Shock Absorbers, Firm-Ride-Control Front and Rear**—For considerable secondary and rural road driving. Included in F41. N.A. with FE2 or W45..... \$ 5.27  
**M55 Oil Cooler, Automatic Transmission Auxiliary**—For trailer towing. M38 or M40 required. V-8 models..... \$ 15.80  
**PC2 Wheels, Heavy-Duty 14 x 7" JJ**—Included in FE2. N.A. with N66 or P05. V-8 models..... \$ 5.27  
**T60 Battery, Heavy-Duty**—N.A. with L33 or W31. V-8 models..... \$ 7.37  
**U89 Wiring Harness, Trailer Electrical**..... \$ 10.53

FACTORY-INSTALLED POWER TEAMS

Axle Ratio	Engine Trans.	Std. L-6		Std. V-8				L33		L74				W31				W45								
		Std.	M38	Std.	M14	M20	M21	M38	M40	Std.	M14	M20	M21	M38	M14	M20	M21	M38	Std.	M14	M20	M21	M38			
2.96 (G96)									S	S																
2.78 (G95)		S	S	A	A				A	A	A	A					S									
3.08 (G90)		Aa	Aa	S	S	S			Ab	A	S	S	S				Ab									
3.23 (G91)		A	A	A	A	A			A	A	A	A					A						Sf	Sf	Sf	Sf
3.42 (G92)				Ac	Ac	Ac	Sc	Ac		Ac	Ac	Ac	Sc	Ac	Ac	Ac	Ac	Ac	Ac	Ac	Ac	Ac	Ac	Ac	Ac	Ac
3.91 (G88)				Ac	Ac		Ac	Ac		Ac	Ac		Ac	Ac	Ac	Sc	Sc	Sc	Sc	Sc	Sc	Sc	Ac	Ac		Ac

S—Standard. A—Available. a—Standard with C60 or Y72. b—For trailer towing. c—Extra-cost performance axle with heavy-duty shafts. Includes heavy-duty radiator with G80. N.A. with C60 or Y72. d—N.A. with B84, D33, J50 or JL2, or Y73. e—N10 required. f—N.A. with B84, C08, D33, D99, F41, FG2, N42, N66, N95, P01, P02, P05, P26, or Y73.  
 NOTE: Dealer-installed ratios, 4.33-, 4.56-, 5.00-to-1, available with V-8 power teams, except L33 with M40. N.A. with C60 or Y72.

## 4239 Holiday Sedan

## 4257 Hardtop Coupe

## 4267 Convertible

## STANDARD EQUIPMENT

- **Armrests**, Deluxe Front and Rear (with bright accent moldings, plus bright backplates on doors)
- **Ashtrays**, Instrument-Panel and Rear-Armrest
- **Battery**, 61-Ampere-Hour/66-Plate
- **Brakes**, Front and Rear Drum
- **Cigar Lighter**, Instrument-Panel
- **Delcotron**, 37-Ampere
- **Engine**, 310-hp Rocket 350 V-8 H.C. (4-bbl. carburetor—N10 required with G88 or G92)
- **Floor Carpeting**, Wall-to-Wall (with carpeted cowl and door panels, plus carpeted front-seat-back lower panel in Sedan)
- **Frame**, Torque-Beam
- **Instrument-Panel-Control Lighting** (Convertible)
- **Instrument-Panel Trim**, Wood-Grain-Vinyl
- **Lamp**, Dome (Sedan and Coupe)
- **Lamps**, Instrument-Panel, Courtesy and Map Lamps, and Rear-Armrest Courtesy (Convertible)
- **Lamp Switches**, Automatic Front-Door Interior
- **Moldings**, Chrome Lower Body-Side, Fender, and Wheel-Opening
- **Moldings**, Chrome Roof Drip (Sedan and Coupe)
- **Radio Antenna**, Windshield
- **Seat**, Custom Sport Front (with center armrest and bright moldings—Sedan)
- **Seats**, Strato Bucket (with bright moldings—Coupe and Convertible)
- **Seat Cushions**, Foam-Padded Front- and Rear-
- **Seat Head Restraints**, Dual Front-
- **Seat Lap Belts**, 2 Front- and 3 Rear- (Coupe and Convertible); 3 Front- and 3 Rear- (Sedan)

- A55 Seat Shoulder Belts**, Rear—N.A. with A39, A85, or AK1 . . . . . \$ 23.17
- AU3 Door Locks**, Power—For all doors. N.A. with AU5:
  - Coupe and Convertible . . . . . \$ 44.76
  - Sedan . . . . . \$ 68.46
- AU5 Door Locks and Front-Seat-Backrest Lock Releases**, Power—N.A. with AU3, Coupe and Convertible . . . . . \$ 68.46
- B32 Floor Mats**, Auxiliary Front . . . . . \$ 7.37
- B33 Floor Mats**, Auxiliary Rear . . . . . \$ 7.16
- B85 Moldings**, Chrome Side-Window Sill—Included in C08, Coupe . . . . . \$ 19.48
- B93 Moldings**, Chrome Door-Edge Guard:
  - Coupe and Convertible . . . . . \$ 5.27
  - Sedan . . . . . \$ 8.95
- C08 Rooftop Covering**, Vinyl—Includes B85 on Coupe, Sedan and Coupe . . . . . \$102.16
- C50 Window Defogger**, Rear—Sedan and Coupe . . . . . \$ 26.33
- C60 Air Conditioner**, Four-Seasons—Includes heavy-duty radiator. N.A. with G88 or G92, or M21 . . . . . \$375.99
- D33 Mirror**, Remote-Control Outside Rearview—N.A. with D35 . . . . . \$ 10.53
- D35 Mirrors**, Sports-Styled Outside Rearview—Includes left-hand mirror with remote control and right-hand mirror. Color-matched to car color. N.A. with D33, Coupe and Convertible . . . . . \$ 22.12
- D55 Console**, Sports—With manual transmission, includes lockable map case. With automatic transmission, also includes floor-shift transmission control, map case lamp, and rear

- Teams** . . . . . \$184.80
- M21 Transmission**, Fully Synchronized 4-Speed Floor-Shift Close-Ratio—Includes Hurst Shifter. Coupe and Convertible. See Power Teams . . . . . \$184.80
- M38 Transmission**, Turbo Hydra-matic 350. See Power Teams . . . . . \$205.92
- M40 Transmission**, Turbo Hydra-matic 400—L33 or Y79 required. See Power Teams . . . . . \$227.04
- N10 Exhaust System**, Dual—Included in L33, W32, and Y79. Required with standard V-8 with G88 or G92. N.A. with L65 . . . . . \$ 30.23
- N33 Steering Wheel**, Tilt-Away—M14, M20, M21, M38, or M40 required . . . . . \$ 45.29
- N34 Steering Wheel**, Custom-Sport . . . . . \$ 15.80
- N42 Steering Wheel with Instant-Horn**, Deluxe . . . . . \$ 15.80
- N47 Steering**, Vari-Ratio Power . . . . . \$105.32
- N66 Wheels**, Super Stock II . . . . . \$ 73.72
- N95 Wheels**, Simulated-Wire . . . . . \$ 73.72
- P01 Wheel Discs**, Chrome—Included in Y79, unless P02, P05, P06, N66, or N95 is ordered.
  - . . . . . \$ 21.06
  - P02 Wheel Discs, Deluxe . . . . . \$ 47.39
  - P05 Wheels, Super Stock I . . . . . \$ 90.58
  - P06 Wheel Trim Rings, Chrome—FE2 or PC2 required . . . . . \$ 21.06
- P26 Tires**, G78 x 14" Dual-White Stripe Bias-Belted . . . . . \$ 30.54
- PK5 Tires**, G70 x 14" Blackwall Wide-Oval Bias-Belted—With raised white letters. Coupe and Convertible . . . . . \$ 88.47
- PX8 Tires**, G70 x 14" Single-White-Stripe Wide-Oval Bias-Belted—Coupe and Convertible

- W32 Engine**, 365-hp 4-4-2 Rocket 455 V-8 H.C. (4-bbl. carburetor)—Includes N10, Y79 and M40 required. Coupe and Convertible. See Power Teams . . . . . \$141.13
- Y60 Lamps and Mirrors**, Convenience—Includes trunk and underhood lamps; ashtray, courtesy and map lamps, and instrument-panel-control lighting (std. in Convertible); glove compartment lamp; roof rear-quarter lamps (Sedan and Coupe); rear-door interior-lamp switches (Sedan); visor vanity mirror; rear-view mirror with map lamp; Sedan \$40.65; Coupe \$34.33; Conv. \$ 14.32
- Y72 Engine-Cooling Equipment**, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron. N.A. with G88, G92, or M21: With C60 . . . \$ 21.06; Without C60 . . . \$ 57.93
- Y79 "SX" Performance Package**—Includes 320-hp Rocket 455 V-8 H.C. Engine, with 2-bbl. carburetor and dual exhausts (L33); and special fender ornaments, rear bumper, and exhaust outlets. M40 required. Coupe and Convertible. See Power Teams. Package includes:
  - Y79 . . . . . \$ 10.53
  - L33 . . . . . \$107.43
  - P01 . . . . . \$ 21.06
  - W32 (instead of L33) . . . . . \$141.13
  - Total with L33 . . . . . \$139.02
  - Total with W32 . . . . . \$172.72

## SPECIAL USE EQUIPMENT

(For usage, refer to Product Selling Literature)

- F41 Suspension**, Heavy-Duty—For strenuous service; trailer towing, continuous heavy

- **Seat Shoulder Belts, 2 Front-** (Sedan and Coupe)
- **Steering Wheel, Deluxe**
- **Tires, G78 x 14" Blackwall Bias-Belted**
- **Top, Power** (Convertible)
- **Transmission, Fully Synchronized 3-Speed Column-Shift, Manual**
- **Ventilation, Flo-Thru Body** (Coupe and Convertible)
- **Wheels, 14 x 6" JJ**
- **Wheel Hubcaps, Chrome**
- **Windows, Crank-Operated Vent** (Sedan)
- **Windshield Wipers, Recessed-Park**

#### FACTORY-INSTALLED EQUIPMENT

- A01 Windows, Soft-Ray Tinted**—Includes A02 \$ 38.97
- A02 Windshield, Soft-Ray Tinted**—Included in A01 \$ 26.33
- A31 Windows, Power Side** \$105.32
- A39 Seat Belts, Deluxe Front and Rear**—Convertible: Except with A65 (2 belts) \$ 8.95 With A65 (3 belts) \$ 10.53
- A41 Seat Adjuster, 4-Way Power**—For bench seat. A65 required in Coupe and Convertible \$ 73.72
- A46 Seat Adjuster, 4-Way Power**—For left-hand bucket seat. N.A. with A65. Coupe and Convertible \$ 73.72
- A65 Seat, Custom Sport Front**—Includes center armrest and bright moldings. N.A. with D55 or W26. Coupe and Convertible. No Chg.
- A85 Seat Shoulder Belts, Deluxe Front—A39 required. Convertible** \$ 26.33
- A90 Trunk-Lid Latch, Power** \$ 14.74
- AK1 Seat Belts, Deluxe Front and Rear Lap and Front Shoulder:** Coupe with bucket seats \$ 12.11 Sedan, and Coupe with A65 \$ 13.69
- AS1 Seat Shoulder Belts, Front—N.A. with A39 or AS4. Convertible** \$ 23.17
- AS4 Seat Shoulder Belts, Deluxe Rear—A39 or AK1 required** \$ 26.33

- console lamp. M14, M20, M21, M38, or M40 required. N.A. with A65. Coupe and Convertible \$ 61.09
- D99 Finish, Two-Tone Magic-Mirror**—Sedan and Coupe \$ 31.07
- G66 Shock Absorbers, Superlift Rear**—For trailer towing—M38 or M40 required with FE2 \$ 42.13
- G80 Axle, Anti-Spin Rear**—Included in G88 and G92 \$ 42.13
- G88 Axle Package, 3.91-to-1 Performance Rear**—N10 required with standard engine. See Power Teams. G88 Axle Package includes: G88 Axle No Chg. G80 Anti-Spin Axle \$ 42.13 V01 Heavy-Duty Radiator \$ 21.06 Total \$ 63.19
- G92 Axle Package, 3.42-to-1 Performance Rear**—N10 required with standard engine. See Power Teams. G92 Axle Package includes: G92 Axle No Chg. G80 Anti-Spin Axle \$ 42.13 V02 Heavy-Duty Radiator \$ 15.80 Total \$ 57.93
- J50 Brakes, Pedal-Ease Power**—N.A. with JL2 \$ 41.60
- JL2 Brakes, Power with Front Disc**—N.A. with J50 \$ 64.25
- K30 Cruise Control, Automatic**—M38 or M40 required \$ 57.93
- L33 Engine, 320-hp Rocket 455 V-8 H.C. (2-bbl. carburetor)**—Includes N10. M40 required. See Power Teams \$107.43
- L65 Engine, 250-hp Rocket 350 V-8 Regular-Fuel (2-bbl. carburetor)**—See Power Teams Deduct \$ 33.70
- M14 Transmission, Fully Synchronized 3-Speed Floor-Shift Heavy-Duty**—Includes Hurst Shifter. Coupe and Convertible. See Power Teams \$ 84.26
- M20 Transmission, Fully Synchronized 4-Speed Floor-Shift Wide-Ratio**—Includes Hurst Shifter. Coupe and Convertible. See Power

- T44 Hood Lock, Interior-Operated** \$ 62.14
- T81 Headlamp Off-Delay Control, Night-Watch**—N.A. with U21 \$ 10.53
- U15 Safety Sentinel** \$ 11.59
- U21 Rocket Rally Pac**—Includes U35. N.A. with T81 \$ 84.26
- U35 Clock, Electric**—Included in U21 \$ 16.85
- U57 Stereo Tape Player**—Includes U80 with U63. U58 or U63 required: With U58 \$116.91; With U63 \$133.76
- U58 Radio, AM-FM Stereophonic**—Includes U80 \$238.02
- U63 Radio, Deluxe Pushbutton** \$ 69.51
- U80 Radio Speaker, Bi-Phonic Rear**—Included with U57 and U58 \$ 16.85
- W26 Console with Dual-Gate Shifter, Sports**—Includes Hurst Dual-Gate Shifter, lockable map case with lamp, and rear console lamp. M38 or M40 required. N.A. with A65. Coupe and Convertible \$ 76.88
- W27 Axle Carrier and Cover, Aluminum Rear**—G80, JL2 and W32 with G91 or G92 required. Coupe and Convertible \$157.98

- trunk loads, and when most driving is on secondary and rural roads. Includes heavy-duty front and rear springs and front stabilizer bar, and FG2 shock absorbers. G66 shock absorbers available \$ 21.06
- FE2 Suspension, 4-4-2 Rally-Sports**—Includes heavy-duty front and rear springs, shock absorbers, and stabilizer bars; and heavy-duty rear-suspension lower control arms; plus PC2. N.A. with FG2; nor G66 with manual transmission. Coupe and Convertible: Without N66 or P05 \$ 18.54 With N66 or P05 \$ 13.27
- FG2 Shock Absorbers, Firm-Ride-Control Front and Rear**—For considerable secondary and rural road driving. Included in F41. N.A. with FE2 \$ 5.27
- M55 Oil Cooler, Automatic Transmission Auxiliary**—For trailer towing. M38 or M40 required \$ 15.80
- PC2 Wheels, Heavy-Duty 14 x 7" JJ**—Included in FE2. N.A. with N66 or P05 \$ 5.27
- T60 Battery, Heavy-Duty**—N.A. with L33 or Y79 \$ 7.37
- U89 Wiring Harness, Trailer Electrical** \$ 10.53

#### FACTORY-INSTALLED POWER TEAMS

Axle Ratio	Models		All		Coupe and Convertible				Sedan		
	Engine	Trans.	Std. V-8, L65	M38	M14	M20	M21	M40	L33 (Y79)	W32 (Y79)	L33
	2.56 (G96)			S					S	A	S
2.78 (G95)	A		A	A				A	A	A	
3.08 (G90)	S		Aa	S	S			A	S	A	
3.23 (G91)	A		A	A	A				A		
3.42 (G92)		Ab	Ab	Ab	Ab	Sb				Ab	
3.91 (G88)		Ab	Ab	Ab		Ab					

S—Standard. A—Available. a—For trailer towing except with L65. b—Extra-cost performance axle with heavy-duty shafts. Includes heavy-duty radiator and G80. N.A. with C60 or Y72.  
NOTE: Dealer-installed ratios, 4.33-, 4.66- and 5.00-to-1, available, except for L31, L33 with M40, or W32 with M40. N.A. with C60 or Y72.

# Models . . . **4-4-2** . . . Equipment

4477 Sports Coupe

4487 Holiday Coupe

4467 Convertible

## STANDARD EQUIPMENT

- **Armrests**, Deluxe Front and Rear (with bright accent moldings, plus bright backplates on doors and on Sports Coupe rear armrests)
- **Ashtrays**, Instrument-Panel and Rear-Armrest
- **Battery**, 74-Ampere-Hour/90-Plate
- **Brakes**, Front and Rear Drum
- **Cigar Lighter**, Instrument-Panel
- **Delcotron**, 37-Ampere G.S.I.
- **Engine**, 365-hp 4-4-2 Rocket 455 V-8 H.C. (4-bbl. carburetor)
- **Exhaust System**, Full Dual
- **Floor Carpeting**, Wall-to-Wall
- **Frame**, Torque-Beam
- **Instrument-Panel-Control Lighting** (Convertible)
- **Instrument-Panel Trim**, Wood-Grain-Vinyl
- **Lamp**, Dome (Coupes)
- **Lamps**, Instrument-Panel Ashtray, Courtesy and Map Lamps, and Rear-Armrest Courtesy (Convertible)
- **Lamp Switches**, Automatic Interior
- **Louver Grilles**, Chrome Hood
- **Moldings**, Chrome Roof Drip (Coupes)
- **Moldings**, Chrome Side-Window Frame (Sports Coupe)

- A39 Seat Lap Belts**, Deluxe Front- and Rear- — Convertible:  
 Except with A65 (2 belts) . . . . . \$ 8.95  
 With A65 (3 belts) . . . . . \$ 10.53
- A41 Seat Adjuster**, 4-Way Power—For bench seat. A65 required. Convertible . . . \$ 73.72
- A46 Seat Adjuster**, 4-Way Power—For left-hand bucket seat. N.A. with A52 or A65. \$ 73.72
- A52 Seat**, Bench Front—Includes bright moldings. N.A. with D55 or W26. Coupes . . . . . Deduct \$ 68.46
- A65 Seat**, Custom Sport Front—Includes center armrest and bright moldings. N.A. with D55 or W26. Convertible . . . . . **No. Chg.**
- A85 Seat Shoulder Belts**, Deluxe Front- —A39 required. Convertible . . . . . \$ 26.33
- A90 Trunk-Lid Latch**, Power . . . . . \$ 14.74
- AK1 Seat Belts**, Deluxe Front and Rear Lap and Front Shoulder:  
 Coupes with bucket seats . . . . . \$ 12.11  
 Coupes with A52 or A65 . . . . . \$ 13.69
- AS1 Seat Shoulder Belts**, Front- —N.A. with A39 or AS4. Convertible . . . . . \$ 23.17
- AS4 Seat Shoulder Belts**, Deluxe Rear- —A39 or AK1 required . . . . . \$ 26.33
- AS5 Seat Shoulder Belts**, Rear- —N.A. with A39, A85, AK1, or AS4 . . . . . \$ 23.17
- AU3 Door Locks**, Power—N.A. with AU5. \$ 44.76
- AU5 Door Locks and Front-Seat-Backrest Lock Releases**, Power—N.A. with AU3 . . . \$ 68.46

- G92 Axle Package**, 3.42-to-1 Performance Rear- —See Power Teams. G92 Axle Package includes:  
 G92 Axle . . . . . **No Chg.**  
 G80 Anti-Spin Axle . . . . . \$ 42.13  
 V02 Heavy-Duty Radiator . . . . . \$ 15.80  
 Total . . . . . \$ 57.93
- JL2 Brakes**, Power with Front Disc—M40 required with W30:  
 Without W30 . . . \$64.25; With W30 . . . \$ 41.60
- K30 Cruise Control**, Automatic—M40 required. . . . . \$ 57.93
- M21 Transmission**, Fully Synchronized 4-Speed Floor-Shift Close-Ratio—Includes Hurst Shifter. See Power Teams. . . . . \$184.80
- M40 Transmission**, Turbo Hydra-matic 400—See Power Teams. . . . . \$227.04
- N33 Steering Wheel**, Tilt-Away . . . . . \$ 45.29
- N34 Steering Wheel**, Custom-Sport . . . . . \$ 15.80
- N42 Steering Wheel with Instant-Horn**, Deluxe . . . . . \$ 15.80
- N47 Steering**, Vari-Ratio Power . . . . . \$105.32
- N66 Wheels**, Super Stock II . . . . . \$ 73.72
- N95 Wheels**, Simulated-Wire . . . . . \$ 73.72
- P01 Wheel Discs**, Chrome . . . . . \$ 21.06
- P02 Wheel Discs**, Deluxe . . . . . \$ 47.39
- P05 Wheels**, Super Stock I . . . . . \$ 90.58
- P06 Wheel Trim Rings**, Chrome . . . . . \$ 21.06
- PK5 Tires**, G70 x 14" Blackwall Wide-Oval Bias-Belted—With raised white letters. Included in W30 . . . . . \$ 26.33

## W-Machine Package includes:

W30 . . . . .	\$321.23
D35 . . . . .	\$ 22.12
PK5 . . . . .	\$ 26.33
Total . . . . .	\$369.68

**W35 Spoiler**, Rear-Deck-Lid Air—Coupes . \$ 73.72

**Y60 Lamps and Mirrors**, Convenience—Includes trunk and underhood lamps; instrument-panel-control lighting; and instrument-panel ashtray, courtesy, and map lamps (std. in Convertible) for Coupes:  
 Coupes . . . . . \$ 28.02  
 Convertible . . . . . \$ 14.32

**Y72 Engine-Cooling Equipment**, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron. N.A. with G88, G92, or W30. C60 required with M21:  
 With C60 . . . \$ 21.06; Without C60 . . . \$ 57.93

**Y73 Paint Stripes**, G.T. Hood—N.A. with W25 or W30 . . . . . \$ 10.53

## SPECIAL USE EQUIPMENT

(For usage, refer to Product Selling Literature)

**G51 Springs**, High-Rate-and-Load Rear—For trailer towing. N.A. with G66. M40 required . . . . . \$ 3.69

- **Moldings**, Chrome Wheel-Opening
- **Paint Stripes**, Body-Side and Trunk-Lid
- **Radio Antenna**, Windshield
- **Seats**, Strato Bucket (with bright moldings)
- **Seat Cushions**, Foam-Padded Front- and Rear-
- **Seat Head Restraints**, Dual Front-
- **Seat Lap Belts**, 2 Front- and 3 Rear-
- **Seat Shoulder Belts**, 2 Front- (Coupes)
- **Steering Wheel**, Deluxe
- **Suspension**, Rally-Sports (heavy-duty front and rear springs, shock absorbers, and stabilizer bars and rear-suspension lower control arms; plus heavy-duty drive shaft and front engine mountings)
- **Top**, Power (Convertible)
- **Tires**, G70 x 14" Single-White-Stripe Wide-Oval Bias-Belted
- **Transmission**, Fully Synchronized 3-Speed Floor-Shift Heavy-Duty Manual (with Hurst Shifter)
- **Ventilation**, Flo-Thru Body (Holiday Coupe and Convertible)
- **Wheels**, Heavy-Duty 14x7" JJ
- **Wheel Hubcaps**, Chrome
- **Windows**, Crank-Operated Vent (Sports Coupe)
- **Windshield Wipers**, Recessed-Park

#### FACTORY-INSTALLED EQUIPMENT

- A01 Windows**, Soft-Ray Tinted—Includes A02 ..... \$ 38.97
- A02 Windshield**, Soft-Ray Tinted—Included in A01 ..... \$ 26.33
- A31 Windows**, Power Side ..... \$105.32

- B32 Floor Mats**, Auxiliary Front ..... \$ 7.37
- B33 Floor Mats**, Auxiliary Rear ..... \$ 7.16
- B85 Moldings**, Chrome Side-Window Sill—Coupes ..... \$ 19.48
- B93 Moldings**, Chrome Door-Edge Guard ..... \$ 5.27
- C08 Rooftop Covering**, Vinyl—Coupes ..... \$102.16
- C50 Window Defogger**, Rear—Coupes ..... \$ 26.33
- C60 Air Conditioner**, Four-Season—Includes heavy-duty radiator. N.A. with G88 or G92. Available with W30 only with M40, G91 and JL2. See Power Teams ..... \$375.99
- D33 Mirror**, Remote-Control Outside Rearview—N.A. with D35 ..... \$ 19.53
- D35 Mirrors**, Sports-Styled Outside Rearview—Includes left-hand mirror with remote control and right-hand mirror. Color-matched to car color. Included in W30. N.A. with D33. .... \$ 22.12
- D55 Console**, Sports—With manual transmission, includes lockable map case. With automatic transmission, also includes floor-shift transmission control, map case lamp, and rear console lamp. N.A. with A52 or A65. \$ 61.09
- D99 Finish**, Two-Tone Magic-Mirror—Coupes ..... \$ 31.07
- G66 Shock Absorbers**, Superlift Rear—For trailer towing. N.A. with G51. M40 required. \$ 42.13
- G80 Axle**, Anti-Spin Rear—Included in G88 and G92 ..... \$ 42.13
- G88 Axle Package**, 3.91-to-1 Performance Rear—Recommended for off-highway use only. W30 required. See Power Teams. G88 Axle Package includes:  
G88 Axle ..... **No Chg.**  
G80 Anti-Spin Axle ..... \$ 42.13  
V01 Heavy-Duty Radiator ..... \$ 21.06  
Total ..... \$ 63.19

- T44 Hood Lock**, Interior-Operated ..... \$ 10.53
- T81 Headlamp Off-Delay Control**, Night-Watch—N.A. with U21 ..... \$ 12.64
- U15 Safety Sentinel** ..... \$ 11.59
- U21 Rocket Rally Pac**—Includes U35. N.A. with T81 ..... \$ 84.26
- U35 Clock**, Electric—Included in U21 ..... \$ 16.85
- U57 Stereo Tape Player**—Includes U80 with U63. U58 or U63 required:  
With U58 ..... \$116.91; With U63 ..... \$133.76
- U58 Radio**, AM-FM Stereophonic—Includes U80 ..... \$238.02
- U63 Radio**, Deluxe Pushbutton ..... \$ 69.51
- U80 Radio Speaker**, Bi-Phonic Rear—Included with U57 and U58 ..... \$ 16.85
- W25 Hood**, Dual-Intake Force-Air Fiberglass—Includes special hood paint. Included in W30. N.A. with Y73 ..... \$157.98
- W26 Console with Dual-Gate Shifter**, Sports—Includes Hurst Dual-Gate Shifter, lockable map case with lamp, and rear console lamp. M40 required. N.A. with A52 or A65. \$ 76.88
- W27 Axle Carrier and Cover**, Aluminum Rear—G80 and W30 required ..... \$157.98
- W30 W-Machine Package**—For performance enthusiasts only. Includes 370-hp Rocket 455 V-8 H.C. Engine with selected parts, Force-Air Induction, special air cleaner, 4-barrel carburetor, aluminum intake manifold, dual-intake Force-Air fiberglass hood with special paint, wide body-side paint stripes, "W" emblems on front fenders, lightweight body insulation, and manual front disc brakes. G92 axle, at extra cost, required except with C60 which has G91 axle at no extra cost. See Power Teams.

- M55 Oil Cooler**, Automatic Transmission Auxiliary—For trailer towing. M40 required. \$ 15.80
- U89 Wiring Harness**, Trailer Electrical... \$ 10.53

FACTORY-INSTALLED POWER TEAMS						
Axle Ratio	Engine	Std. V-8			W30	
	Trans.	M14*	M21	M40	M21	M40
2.56 (G96)				A		
2.78 (G95)				A		
3.08 (G90)	S			Aa		
3.23 (G91)	A	Ab		S		Ab
3.42 (G92)	Ac	Sc		Ac	Scd	Scd
3.91 (G88)					Ac	Ac

\*Standard transmission.

S—Standard. A—Available. a—For trailer towing  
b—Standard and available only with C60. c—Extra-cost performance axle with heavy-duty shafts. Includes heavy-duty radiator and G80. N.A. with C60 or Y72. d—N.A. with Y73.

**NOTE:** Dealer-installed ratios, 4.33-, 4.66-, and 5.00-to-1, available for all power teams, except with C60 or Y72.

Models . . .

**VISTA-CRUISER**

. . . Equipment

4855 2-Seat Model

4865 3-Seat Model

**STANDARD EQUIPMENT**

- **Armrests**, Deluxe Front and Rear (with bright backplates)
- **Ashtrays**, Instrument-Panel and Rear-Armrest
- **Battery**, 61-Ampere-Hour/66-Plate (with std. V-8 or L74) or 74-Ampere-Hour/90-Plate (with L31)
- **Body-Side and Tailgate Panels**, Chrome-Framed Wood-Grain-Vinyl
- **Brakes**, Power Front Disc and Rear Drum
- **Cigar Lighter**, Instrument-Panel
- **Delcotron**, 37-Ampere
- **Engine**, 250-hp Rocket 350 V-8 Regular-Fuel (2-bbl. carburetor)
- **Floor Carpeting**, Wall-to-Wall Passenger-Area (plus carpeted cowl and door lower panels)
- **Frame**, Torque-Beam

- **Visors**, Vista-Roof Sun
- **Wheels**, 14 x 6" JJ
- **Wheel Hubcaps**, Chrome
- **Windows**, Crank-Operated Vent
- **Windshield Wipers**, Recessed-Park

**FACTORY-INSTALLED EQUIPMENT**

- A01 Windows**, Soft-Ray Tinted—Includes A02 ..... \$ 38.97
- A02 Windshield**, Soft-Ray Tinted—Included in A01 ..... \$ 26.33
- A31 Windows**, Power Side ..... \$105.32
- A33 Window**, Power Tailgate ..... \$ 34.76
- A41 Seat Adjuster**, 4-Way Power ..... \$ 73.72

- C60 Air Conditioner**, Four-Season—Includes heavy-duty radiator ..... \$375.99
- D33 Mirror**, Remote-Control Outside Rearview ..... \$ 10.53
- D99 Finish**, Two-Tone Magic-Mirror ..... \$ 21.38
- G66 Shock Absorbers**, Superlift Rear—For trailer towing ..... \$ 42.13
- G80 Axle**, Anti-Spin Rear ..... \$ 42.13
- K30 Cruise Control**, Automatic—M38 or M40 required ..... \$ 57.93
- L31 Engine**, 365-hp Rocket 455 V-8 H.C. (4-bbl. carburetor)—Includes dual exhausts. M40 required. See Power Teams ..... \$188.52
- L74 Engine**, 310-hp Rocket 350 V-8 H.C. (4-bbl. carburetor)—See Power Teams ..... \$ 47.39
- M38 Transmission**, Turbo Hydra-matic 350—N.A. with L31. See Power Teams ..... \$205.92
- M40 Transmission**, Turbo Hydra-matic 400—L31 required. See Power Teams ..... \$227.04

- U58 Radio**, AM-FM Stereophonic—Includes U80 ..... \$238.02
- U63 Radio**, Deluxe Pushbutton ..... \$ 69.51
- U80 Radio Speaker**, Bi-Phonic Rear—Included with U57 and U58 ..... \$ 16.85
- V55 Luggage Carrier**, Chrome Rooftop ..... \$ 63.19
- V56 Lock and Trim**, Luggage Locker ..... \$ 12.64
- Y60 Lamps and Mirrors**, Convenience—Includes underhood lamp; instrument-panel ashtray, courtesy, glove compartment and map lamps; rear-door interior-lamp switches; instrument-panel-control lighting; visor vanity mirror; and rearview mirror with map lamp... \$ 32.65
- Y72 Engine-Cooling Equipment**, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron: With C60... \$ 21.06; Without C60... \$ 57.93

**SPECIAL USE EQUIPMENT***(For usage, refer to Product Selling Literature)*

- **Instrument-Panel Trim, Wood-Grain-Vinyl**
- **Lamps, Central Dome and Tailgate Dome** (with back switch only)
- **Lamp Switches, Automatic Front-Door Interior**
- **Moldings, Chrome Lower Body-Side and Wheel-Opening**
- **Moldings, Chrome Roof Drip**
- **Moldings, Chrome Side-Window Frame**
- **Radio Antenna, Windshield**
- **Seat, Bench Front** (with bright moldings)
- **Seats, Divided Second and Forward-Facing Third** (3-seat model)
- **Seat Cushions, Foam-Padded** (in all seats)
- **Seat Head Restraints, Dual Front-**
- **Seat Lap Belts, 3 Front- and 3 Rear-** (plus 2 for third seat in 3-seat model)
- **Seat Shoulder Belts, 2 Front-**
- **Steering Wheel, Deluxe**
- **Tires, H78 x 14" Blackwall Bias-Belted**
- **Transmission, Fully Synchronized 3-Speed Column-Shift Manual**

- AA3 Glass, Chrome-Coated Tinted Vista-Roof** ..... \$ 21.06
- AK1 Seat Belts, Deluxe Front and Rear Lap and Front Shoulder**—Includes third-seat belts in 3-seat model:  
2-seat model ..... \$ 13.69  
3-seat model ..... \$ 16.85
- AS4 Seat Shoulder Belts, Deluxe Rear**—AK1 required:  
2-seat model—For second seat ..... \$ 26.33  
3-seat model—For second and third seats ..... \$ 52.66
- AS5 Seat Shoulder Belts, Rear**—N.A. with AK1:  
2-seat model—For second seat ..... \$ 23.17  
3-seat model—For second and third seats ..... \$ 46.34
- AU3 Door Locks, Power**—For all doors... \$ 68.46
- B32 Floor Mats, Auxiliary Front** ..... \$ 7.37
- B33 Floor Mats, Auxiliary Rear** ..... \$ 7.16
- B39 Floor Carpeting, Deep-Pile Cargo-Area** ..... \$ 15.80
- B93 Moldings, Chrome Door-Edge Guard** \$ 8.95
- C28 Tailgate, Drop-or-Swing** ..... \$ 42.13
- C51 Window Air Deflector, Tailgate**... \$ 20.84

- N33 Steering Wheel, Tilt-Away**—M38 or M40 required ..... \$ 45.29
- N34 Steering Wheel, Custom-Sport** ..... \$ 15.80
- N42 Steering Wheel with Instant-Horn, Deluxe** ..... \$ 15.80
- N47 Steering, Vari-Ratio Power** ..... \$105.32
- N95 Wheels, Simulated-Wire** ..... \$ 73.72
- P01 Wheel Discs, Chrome** ..... \$ 21.06
- P02 Wheel Discs, Deluxe** ..... \$ 47.39
- P26 Tires, H78 x 14" Dual-White-Stripe Bias-Belted** ..... \$ 33.70
- T44 Hood Lock, Interior-Operated** ..... \$ 10.53
- T81 Headlamp Off-Delay Control, Night-Watch**—N.A. with U21 ..... \$ 12.64
- U15 Safety Sentinel** ..... \$ 11.59
- U21 Rocket Rally Pac**—Includes U35. N.A. with T81 ..... \$ 84.26
- U35 Clock, Electric**—Included in U21... \$ 16.85
- U57 Stereo Tape Player**—Includes U80 with U63. U58 or U63 required:  
With U58... \$116.91; With U63... \$133.76

- F41 Suspension, Heavy-Duty**—For strenuous service: trailer towing, continuous heavy trunk loads, and when most driving is on secondary and rural roads. Includes heavy-duty front and rear springs and front stabilizer bar, and FG2 shock absorbers. G66 shock absorbers available ..... \$ 21.06
- FG2 Shock Absorbers, Firm-Ride-Control Front and Rear**—For considerable secondary and rural road driving. Included in F41... \$ 5.27
- M55 Oil Cooler, Automatic Transmission Auxiliary**—For trailer towing. M38 or M40 required ..... \$ 15.80
- T60 Battery, Heavy-Duty**—N.A. with L31... \$ 7.37
- U89 Wiring Harness, Trailer Electrical**... \$ 10.53

#### FACTORY-INSTALLED POWER TEAMS

Axle Ratio	Engine	Std. V-8		L31		L74	
	Trans.	Std.	M38	M40	Std.	M38	
2.56 (G96)			A	S			A
2.78 (G95)			S	A			A
3.08 (G90)			Aa	Aa			Sa
3.23 (G91)	S	A			S	A	

S—Standard. A—Available. a—For trailer towing.

Models . . .

**DELTA 88**

. . . Equipment

## 5469 Town Sedan

## 5439 Holiday Sedan

## 5437 Holiday Coupe

## 5467 Convertible

**STANDARD EQUIPMENT**

- **Armrests**, Front and Rear
- **Ashtrays**, Instrument-Panel, R.H. Front-Armrest, and Rear-Armrest
- **Battery**, 61-Ampere-Hour/66-Plate (with std. V-8), 73-Ampere-Hour/78-Plate (with L30), or 74-Ampere-Hour/90-Plate (with L31 or W33)
- **Brakes**, Power Front Disc and Rear Drum
- **Cigar Lighter**, Instrument-Panel
- **Delcotron**, 42-Ampere
- **Engine**, 250-hp Rocket 350 V-8 Regular-Fuel (2-bbl. carburetor)
- **Floor Carpeting**, Wall-to-Wall
- **Frame**, Torque-Beam
- **Frame**, Heavy-Duty Torque-Beam (Convertible)
- **Instrument-Panel Trim**, Wood-Grain-Vinyl
- **Lamp**, Dome (Sedans and Coupe)
- **Lamp**, Instrument-Panel Ashtray
- **Lamps**, Instrument-Panel Courtesy and Map Lamps and Rear-Armrest Courtesy (Convertible)
- **Lamp Switches**, Automatic Front-Door Interior
- **Moldings**, Chrome Body-Side, Rear-Fender, and Wheel-Opening
- **Moldings**, Chrome Roof Drip (Holiday Sedan)
- **Radio Antenna**, Windshield
- **Seat**, Bench Front (with bright moldings in Convertible)
- **Seat Cushion**, Foam-Padded Rear- (Coupe and Convertible)
- **Seat Head Restraints**, Dual Front-
- **Seat Lap Belts**, 3 Front- and 3 Rear-

- B32 Floor Mats**, Auxiliary Front . . . . . \$ 7.37
- B33 Floor Mats**, Auxiliary Rear . . . . . \$ 7.16
- B36 Floor Mat**, Heavy-Duty Rubber Trunk \$ 7.90
- B50 Seat Cushion**, Foam-Padded Front—Included in Y67 . . . . . \$ 11.64
- B80 Moldings**, Chrome Roof Drip—Included in C08 on Town Sedan. Town Sedan and Coupe . . . . . \$ 13.69
- B85 Moldings**, Chrome Side-Window Sill—B80 required on Coupe. Included in C08 on Town Sedan . . . . . \$ 19.48
- B90 Moldings**, Chrome Side-Window Frame—Town Sedan . . . . . \$ 21.06
- B93 Moldings**, Chrome Door-Edge Guard: Coupe and Convertible . . . . . \$ 5.27  
Sedans . . . . . \$ 8.95
- C08 Rooftop Covering**, Vinyl—Includes B80 and B85 on Town Sedan. Sedans and Coupe . . . . . \$123.22
- C49 Window**, Electric Defogging Rear—N.A. with K81. Sedans and Coupe . . . . . \$ 52.66
- C60 Air Conditioner**, Four-Season—Includes heavy-duty radiator . . . . . \$421.28
- C61 Air Conditioner**, Comfortron—Includes C60 and automatic comfort control . . . \$500.27
- D33 Mirror**, Remote-Control Outside Rearview . . . . . \$ 10.53
- D99 Finish**, Two-Tone Magic-Mirror—Sedans and Coupe . . . . . \$ 42.13

- U58 Radio**, AM-FM Stereophonic—Includes U80 . . . . . \$238.02
- U63 Radio**, Deluxe Pushbutton . . . . . \$ 86.89
- U80 Radio Speaker**, Bi-Phonic Rear—Included with U57 and U58 . . . . . \$ 16.85
- W33 Engine**, 390-hp High-Performance Rocket 455 V-8 H.C. (4-bbl. carburetor)—Includes dual exhausts. M41 required. Y72 required for police use. See Power Teams . . . \$199.05
- Y60 Lamps and Mirrors**, Convenience—Includes trunk, underhood, and glove compartment lamps; visor vanity mirror; rearview mirror with map lamp; and instrument-panel courtesy and map lamps for Sedans and Coupe: . . . . . \$ 14.74  
Convertible . . . . . \$ 23.17  
Sedans and Coupe . . . . . \$ 23.17
- Y67 Interior Equipment**, Deluxe: . . . . .  
Town Sedan—Includes bright door armrest backplates, foam-padded front-seat cushion . . . . . \$ 20.01  
Holiday Sedan—Includes bright door armrest backplates, roof rear-quarter lamps, rear-door interior-lamp switches, foam-padded front-seat cushion . . . . . \$ 30.54  
Holiday Coupe—Includes bright door armrest backplates, roof rear-quarter lamps, foam-padded front-seat cushion . . . \$ 22.12

- M55 Oil Cooler**, Automatic Transmission Auxiliary—For trailer towing. M40 or M14 required . . . . . \$ 15.80
- N99 Wheels**, Heavy-Duty 15 x 6"—For trailer towing. Included in J55 . . . . . \$ 10.53
- U89 Wiring Harness**, Trailer Electrical . . \$ 10.53

**POLICE AND SPECIAL USE EQUIPMENT***(For usage, refer to Product Selling Literature)*

- A74 Seats**, Heavy-Duty Front and Rear—Includes heavy-duty interlaced springs with foam padding. Sedans . . . . . \$ 15.27
- †B07 Suspension**, Highway Patrol—For high-speed police requirements. Includes heavy-duty front and rear springs, stabilizer bars, and shock absorbers, and reinforced rear-suspension lower control arms. N.A. with F41, FG2, or G66 . . . . . \$ 17.80
- BG1 Floor Covering**, Heavy-Duty Black-Vinyl Front and Rear—Town Sedan . . . . . \$ 10.53
- F41 Suspension**, Heavy-Duty—For strenuous service: trailer towing, police city cruiser service, continuous heavy trunk loads, and where most driving is on secondary and rural roads. Includes heavy-duty front and rear springs and front stabilizer bar, and FG2 shock absorbers. G66 shock absorbers available. N.A. with B07 . . . . . \$ 21.06

- **Seat Shoulder Belts**, 2 Front—(Sedans and Coupe)
- **Steering**, Vari-Ratio Power
- **Steering Wheel**, Deluxe
- **Tires**, H78 x 15" Blackwall Bias-Belted
- **Top**, Power (Convertible)
- **Transmission**, Fully Synchronized 3-Speed Column-Shift Manual
- **Ventilation**, Flo-Thru Body
- **Wheels**, 15 x 6"
- **Wheels Discs**, Chrome
- **Windshield Wipers**, Recessed-Park

#### FACTORY-INSTALLED EQUIPMENT

- A01 Windows**, Soft-Ray Tinted—Includes A02  
\$ 44.23
- A02 Windshield**, Soft-Ray Tinted—Included in A01  
\$ 29.49
- A31 Windows**, Power Side  
\$110.59
- A39 Seat Lap Belts**, Deluxe Front- and Rear—Convertible  
\$ 10.53
- A42 Seat Adjuster**, 6-Way Power  
\$100.05
- A85 Seat Shoulder Belts**, Deluxe Front—A39 required. Convertible  
\$ 26.33
- A90 Trunk-Lid Latch**, Power  
\$ 14.74
- AK1 Seat Belts**, Deluxe Front and Rear Lap and Front Shoulder—Sedans and Coupe \$ 13.69
- AS1 Seat Shoulder Belts**, Front—N.A. with A39 or AS4. Convertible  
\$ 23.17
- AS4 Seat Shoulder Belts**, Deluxe Rear—A39 or AK1 required  
\$ 26.33
- AS5 Seat Shoulder Belts**, Rear—N.A. with A39, A85, or AK1  
\$ 23.17
- AU3 Door Locks**, Power—For all doors. N.A. with AUS:  
Coupe and Convertible  
\$ 44.76  
Sedans  
\$ 68.46
- AU5 Door Locks and Front-Seat-Backrest Lock Releases**, Power—N.A. with AU3. Coupe and Convertible  
\$ 68.46

- G66 Shock Absorbers**, Superlift Rear—For trailer towing. N.A. with B07  
\$ 42.13
- G80 Axle**, Anti-Spin Rear  
\$ 46.60
- K30 Cruise Control**, Automatic—M40 or M41 required  
\$ 63.19
- L30 Engine**, 310-hp Rocket 455 V-8 Regular-Fuel (2-bbl. carburetor)—N.A. with M41. See Power Teams  
\$121.12
- L31 Engine**, 365-hp Rocket 455 V-8 H.C. (4-bbl. carburetor)—M40 required. See Power Teams  
\$168.51
- M40 Transmission**, Turbo Hydra-matic 400—N.A. with W33. See Power Teams  
\$227.04
- M41 Transmission**, Heavy-Duty Turbo Hydra-matic 400—W33 required. See Power Teams  
\$242.88
- N33 Steering Wheel**, Tilt-Away—M40 or M41 required  
\$ 45.29
- N42 Steering Wheel with Instant-Horn**, Deluxe  
\$ 15.80
- P03 Wheel Discs**, Deluxe  
\$ 31.60
- P26 Tires**, H78 x 15" Dual-White-Stripe Bias-Belted  
\$ 33.70
- T44 Hood Lock**, Interior-Operated  
\$ 10.53
- T81 Headlamp Off-Delay Control**, Night-Watch  
\$ 12.64
- T87 Lamps**, Cornering—M40 or M41 required  
\$ 36.86
- U15 Safety Sentinel**—N.A. with U11  
\$ 11.59
- U35 Clock**, Electric  
\$ 16.85
- U57 Stereo Tape Player**—Includes U80 with U63. U58 or U63 required:  
With U58  
\$116.91; With Y63  
\$133.76

- Convertible—Includes chrome rear-armrest ashtrays and cigar lighters, bright door arm-rest backplates, foam-padded front-seat cushion  
\$ 33.70
- Y70 Paint Stripes**, Body-Side—Coupe and Convertible  
\$ 10.53
- Y71 Interior**, Custom—N.A. in Convertible: Town Sedan—Includes custom seat upholstery, door trim panels, carpeted door and cowl lower panels, woven-fiber rear-window shell covering, bright front-seat side upper and lower panels, and deluxe armrests with bright backplates:  
With Y67  
\$ 89.52; Without Y67  
\$ 97.95  
Holiday Models—Same as for Town Sedan, plus Custom Sport Front Seat, and roof rear-quarter lamps:  
Either model with Y67  
\$115.85  
Holiday Coupe without Y67  
\$126.38  
Holiday Sedan without Y67  
\$130.60
- Y72 Engine-Cooling Equipment**, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron:  
With C60 or C61  
\$ 21.06  
Without C60 or C61  
\$ 57.93
- Y78 Windshield Washer/Wiper**, Shift-Lever-Controlled—M40 or M41 required  
\$ 21.06

#### SPECIAL USE EQUIPMENT

(For usage, refer to Product Selling Literature)

- F35 Frame**, Heavy-Duty Torque-Beam—For trailer towing. N99 recommended. Sedans and Coupe  
\$ 18.01
- FG2 Shock Absorbers**, Firm-Ride-Control Front and Rear—For considerable secondary and rural road driving. Included in F41. N.A. with B07  
\$ 5.27

- †J55 Brakes**, Heavy-Duty Power with Front Disc—Single piston front disc brakes with heavy-duty non-fading linings; 11.00 x 2½" heavy-duty duo-servo rear brakes; power brake application. Includes N99. M40 or M41 required  
\$ 15.80
- †K81 Delcotron**, Heavy-Duty—60-ampere/hour alternator with solid state transistorized regulator; 19-ampere/hour at idle. N.A. with C49  
\$ 21.06
- †U11 Speedometer**, Certified Police—Calibrated in increments of 2 mph from 0 to 120 mph and accurate within plus or minus 2 percent throughout speed range. N.A. with U15  
\$ 3.16
- †U90 Wiring Harness with Roof Panel Reinforcement**, Roof-Flasher—Roof flasher not included. Sedans  
\$ 16.85
- †For police usage only.

#### FACTORY-INSTALLED POWER TEAMS

Axle Ratio	Engine	Std. V-8		L30	L31	W33
	Trans.	Std.	M40	Std.	M40	M40 M41
2.56 (G96)				S	S	
2.78 (G95)			S			
2.93 (G94)				S	Aa	Aa Sa
3.23 (G91)	S	Aa				

S—Standard. A—Available. a—For performance or trailer towing.

Models . . .

**DELTA 88 CUSTOM**

. . . Equipment

6469 Town Sedan

6439 Holiday Sedan

6437 Holiday Coupe

**STANDARD EQUIPMENT**

- **Armrests**, Deluxe Front and Rear (with bright accent moldings and backplates)
- **Ashtrays**, Instrument-Panel, R.H. Front-Armrest, and Rear-Armrest
- **Battery**, 73-Ampere-Hour/78-Plate (with std. V-8) or 74-Ampere-Hour/90-Plate (with L31 and W33)
- **Brakes**, Power Front Disc and Rear Drum
- **Cigar Lighter**, Instrument-Panel
- **Delco-tron**, 42-Ampere
- **Engine**, 310-hp Rocket 455 V-8 Regular-Fuel (2-bbl. carburetor)
- **Floor Carpeting**, Wall-to-Wall (plus carpeted cowl and door lower panels)
- **Frame**, Torque-Beam
- **Instrument-Panel Trim**, Wood-Grain-Vinyl
- **Lamp**, Dome (Town Sedan)
- **Lamps**, Instrument-Panel Ashtray, Courtesy, and Map
- **Lamps**, Roof Rear-Quarter (Holiday models)
- **Lamp Switches at all Doors**, Automatic Interior-

**FACTORY-INSTALLED EQUIPMENT**

- A01 Windows**, Soft-Ray Tinted—Includes A02 ..... \$ 44.23
- A02 Windshield**, Soft-Ray Tinted—Included in A01 ..... \$ 29.49
- A31 Windows**, Power Side ..... \$110.59
- A42 Seat Adjuster**, 6-Way Power ..... \$100.05
- A90 Trunk-Lid Latch**, Power ..... \$ 14.74
- AK1 Seat Belts**, Deluxe Front and Rear Lap and Front Shoulder ..... \$ 13.69
- AS4 Seat Shoulder Belts**, Deluxe Rear—AK1 required ..... \$ 26.33
- AS5 Seat Shoulder Belts**, Rear—N.A. with AK1 ..... \$ 23.17
- AU3 Door Locks**, Power—For all doors. N.A. with AU5:  
Coupe ..... \$ 44.76; Sedans ..... \$ 68.46
- AU5 Door Locks and Front-Seat-Backrest Lock Releases**, Power—N.A. with AU3.  
Coupe ..... \$ 68.46
- B32 Floor Mats**, Auxiliary Front ..... \$ 7.37
- B33 Floor Mats**, Auxiliary Rear ..... \$ 7.16

- M41 Transmission**, Heavy-Duty Turbo Hydraulic 400—W33 required. See Power Teams ..... \$242.88
- N33 Steering Wheel**, Tilt-Away—M40 or M41 required ..... \$ 45.29
- N42 Steering Wheel with Instant-Horn**, Deluxe ..... \$ 15.80
- P03 Wheel Discs**, Deluxe ..... \$ 31.60
- P26 Tires**, H78 x 15" Dual-White-Stripe Bias-Belted ..... \$ 33.70
- T44 Hood Lock** Interior-Operated ..... \$ 10.53
- T81 Headlamp Off-Delay Control**, Night-Watch ..... \$ 12.64
- T87 Lamps**, Cornering—M40 or M41 required ..... \$ 36.86
- U15 Safety Sentinel**—N.A. with U11 ..... \$ 11.59
- U35 Clock**, Electric ..... \$ 16.85
- U57 Stereo Tape Player**—Includes U80 with U63. U58 or U63 required:  
With U58 ..... \$116.91; With U63 ..... \$133.76
- U58 Radio**, AM-FM Stereophonic—Includes U80 ..... \$238.02

- M55 Oil Cooler**, Automatic Transmission Auxiliary—For trailer towing. M40 or M41 required ..... \$ 15.80
- N99 Wheels**, Heavy-Duty 15 x 6"—For trailer towing. Included in J55 ..... \$ 10.53
- U89 Wiring Harness**, Trailer Electrical... \$ 10.53

**POLICE AND SPECIAL USE EQUIPMENT***(For usage, refer to Product Selling Literature)*

- †B07 Suspension**, Highway Patrol—For high-speed police requirements. Includes heavy-duty front and rear springs, stabilizer bars, and shock absorbers, and reinforced rear-suspension lower control arms. N.A. with F41, FG2, or G66 ..... \$ 17.80
- BG1 Floor Covering**, Heavy-Duty Black-Vinyl Front and Rear—Town Sedan ..... \$ 10.53
- F41 Suspension**, Heavy-Duty—For strenuous service: trailer towing, police city cruiser service, continuous heavy trunk loads, and where most driving is on secondary and rural roads. Includes heavy-duty front and rear springs and front stabilizer bar, and FG2 shock absorbers. G66 shock absorbers available. N.A. with B07 ..... \$ 21.06

- **Moldings, Chrome Lower Body-Side, Rear-Fender, and Wheel-Opening**
- **Moldings, Chrome Roof Drip**
- **Moldings, Chrome Side-Window Frame (Town Sedan)**
- **Radio Antenna, Windshield**
- **Seat, Bench Front (with bright moldings—Town Sedan)**
- **Seat, Custom Sport Front (with center armrest and bright moldings—Holiday models)**
- **Seat Cushion, Foam-Padded Front-**
- **Seat Cushion, Foam-Padded Rear- (Holiday models)**
- **Seat Head Restraints, Dual Front-**
- **Seat Lap Belts, 3 Front- and 3 Rear-**
- **Seat Shoulder Belts, 2 Front-**
- **Steering, Vari-Ratio Power**
- **Steering Wheel, Deluxe**
- **Tires, H78 x 15" Blackwall Bias-Belted**
- **Transmission, Fully Synchronized 3-Speed Column-Shift Manual**
- **Ventilation, Flo-Thru Body**
- **Wheels, 15 x 6"**
- **Wheel Discs, Chrome**
- **Window Shelf Covering, Woven-Fiber Rear-**
- **Windshield Wipers, Recessed-Park**

- B36 Floor Mat, Heavy-Duty Rubber Trunk \$ 7.90**
- B85 Moldings, Chrome Side-Window Sill—Included in C08 on Town Sedan..... \$ 19.48**
- B93 Moldings, Chrome Door-Edge Guard: Coupe..... \$ 5.27; Sedans..... \$ 8.95**
- C08 Rooftop Covering, Vinyl—Includes B85 on Town Sedan..... \$123.22**
- C49 Window, Electric Defogging Rear—N.A. with K81..... \$ 52.66**
- C60 Air Conditioner, Four-Season—Includes heavy-duty radiator..... \$421.28**
- C61 Air Conditioner, Comfortron—Includes C60 and automatic comfort control. .... \$500.27**
- D33 Mirror, Remote-Control Outside Rearview..... \$ 10.53**
- D99 Finish, Two-Tone Magic-Mirror.... \$ 42.13**
- G66 Shock Absorbers, Superlift Rear—For trailer towing. N.A. with B07..... \$ 42.13**
- G80 Axle, Anti-Spin Rear..... \$ 46.60**
- K30 Cruise Control, Automatic—M40 or M41 required..... \$ 63.19**
- L31 Engine, 365-hp Rocket 455 V-8 H.C. (4-bbl. carburetor)—M40 required. See Power Teams..... \$ 47.39**
- M40 Transmission, Turbo Hydra-matic 400—N.A. with W33. See Power Teams..... \$227.04**

- U63 Radio, Deluxe Pushbutton..... \$ 86.89**
- U80 Radio Speaker, Bi-Phonic Rear—Included with U57 and U58..... \$ 16.85**
- W33 Engine, 390-hp High-Performance Rocket 455 V-8 H.C. (4-bbl. carburetor)—Includes dual exhausts. M41 required. Y72 required for police use. See Power Teams... \$ 77.94**
- Y60 Lamps and Mirrors, Convenience—Includes trunk, underhood, and glove compartment lamps, visor vanity mirror, and rearview mirror with map lamp..... \$ 14.74**
- Y70 Paint Stripes, Body-Side—Coupe... \$ 10.53**
- Y72 Engine-Cooling Equipment, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron: With C60 or C61..... \$ 21.06 Without C60 or C61..... \$ 57.93**
- Y78 Windshield Washer/Wiper, Shift-Lever-Controlled—M40 or M41 required... \$ 21.06**

- †**J55 Brakes, Heavy-Duty Power with Front Disc—Single piston front disc brakes with heavy-duty non-fading linings; 11.00 x 2½" heavy-duty duo-servo rear brakes; power brake application. Includes N99. M40 or M41 required..... \$ 15.80**
- †**K81 Delcotron, Heavy-Duty—60-ampere/hour alternator with solid state transistorized regulator; 19-ampere/hour at idle. N.A. with C49..... \$ 21.06**
- †**U11 Speedometer, Certified Police—Calibrated in increments of 2 mph from 0 to 120 mph and accurate within plus or minus 2 percent throughout speed range. N.A. with U15..... \$ 3.16**
- †**U90 Wiring Harness with Roof Panel Reinforcement, Roof-Flasher—Roof flasher not included. Sedans..... \$ 16.85**

†For police usage only.

#### SPECIAL USE EQUIPMENT

(For usage, refer to Product Selling Literature)

- F35 Frame, Heavy-Duty Torque-Beam—For trailer towing. N99 recommended... \$ 18.01**
- FG2 Shock Absorbers, Firm-Ride-Control Front and Rear—For considerable secondary and rural road driving. Included in F41. N.A. with B07..... \$ 5.27**

#### FACTORY-INSTALLED POWER TEAMS

Axle Ratio	Engine	Std. V-8		L31	W33
	Trans.	Std.	M40	M40	M41
2.56 (G96)		S	S		
2.93 (G94)		S	Aa	Aa	Sa

S—Standard. A—Available. a—For performance or trailer towing.

Models . . .

**DELTA 88 ROYALE**

. . . Equipment

6647 Holiday Coupe

**STANDARD EQUIPMENT**

- **Armrests**, Deluxe Front- and Rear- (with bright accent moldings and backplates)
- **Ashtrays**, Instrument-Panel, R.H. Front-Armrest, and Rear-Armrest
- **Battery**, 73-Ampere-Hour/78-Plate (with std. V-8) or 74-Ampere-Hour/90-Plate (with L31 and W33)
- **Brakes**, Power Front Disc and Rear Drum
- **Cigar Lighter**, Instrument-Panel
- **Clock**, Electric
- **Delcotron**, 42-Ampere
- **Engine**, 310-hp Rocket 455 V-8 Regular-Fuel (2-bbl. carburetor)
- **Floor Carpeting**, Wall-to-Wall (plus carpeted cowl, door, and front-seat-back lower panels)
- **Frame**, Torque-Beam
- **Instrument-Panel Trim**, Wood-Grain-Vinyl
- **Lamps**, Door Courtesy and Open-Door Warning
- **Lamps**, Instrument-Panel Ashtray, Courtesy Glove Compartment, and Map

- **Window Shelf Covering**, Woven-Fiber Rear-
- **Windshield Wipers**, Recessed-Park

**FACTORY-INSTALLED EQUIPMENT**

- A01 Windows**, Soft-Ray Tinted—Includes A02 . . . . . \$ 44.23
- A02 Windshield**, Soft-Ray Tinted—Included in A01 . . . . . \$ 29.49
- A31 Windows**, Power Side . . . . . \$110.59
- A42 Seat Adjuster**, 6-Way Power—For bench seat. N.A. with A51 . . . . . \$100.05
- A46 Seat Adjuster**, 4-Way Power—For left-hand bucket seat. A51 required . . . . . \$ 73.72
- A51 Seats**, Strato Bucket . . . . . No Chg.
- A90 Trunk-Lid Latch**, Power . . . . . \$ 14.74
- AK1 Seat Belts**, Deluxe Front and Rear Lap and Front Shoulder; With A51 . . . \$ 12.11; Without A51 . . . \$ 13.69
- AS4 Seat Shoulder Belts**, Deluxe Rear—AK1 required . . . . . \$ 26.33
- AS5 Seat Shoulder Belts**, Rear—N.A. with AK1 . . . . . \$ 23.17

- L31 Engine**, 365-hp Rocket 455 V-8 H.C. (4-bbl. carburetor)—M40 required. See Power Teams . . . . . \$ 47.39

- M40 Transmission**, Turbo Hydra-matic 400—N.A. with W33. See Power Teams . . . . . \$227.04

- M41 Transmission**, Heavy-Duty Turbo Hydra-matic 400—W33 required. See Power Teams . . . . . \$242.88

- N33 Steering Wheel**, Tilt-Away—M40 or M41 required. N.A. with D55 . . . . . \$ 45.29

- N42 Steering Wheel with Instant-Horn**, Deluxe . . . . . \$ 15.80

- P03 Wheel Discs**, Deluxe . . . . . \$ 31.60

- P26 Tires**, H78 x 15" Dual-White-Stripe Bias-Belted . . . . . \$ 33.70

- T44 Hood Lock**, Interior-Operated . . . . . \$ 10.53

- T81 Headlamp Off-Delay Control**, Night-Watch . . . . . \$ 12.64

**SPECIAL USE EQUIPMENT***(For usage, refer to Product Selling Literature)*

- F35 Frame**, Heavy-Duty Torque-Beam—For trailer towing. N99 recommended . . . . . \$ 18.01

- FG2 Shock Absorbers**, Firm-Ride-Control Front and Rear—For considerable secondary and rural road driving. Included in F41. N.A. with B07 . . . . . \$ 5.27

- M55 Oil Cooler**, Automatic Transmission Auxiliary—For trailer towing. M40 or M41 required . . . . . \$ 15.80

- N99 Wheels**, Heavy-Duty 15 x 6"—For trailer towing. Included in J55 . . . . . \$ 10.53

- U89 Wiring Harness**, Trailer Electrical . . . \$ 10.53

**POLICE AND SPECIAL USE EQUIPMENT***(For usage, refer to Product Selling Literature)*

- †**B07 Suspension**, Highway Patrol—For high-speed police requirements. Includes heavy-duty front and rear springs, stabilizer bars, and shock absorbers, and reinforced rear-suspension lower control arms. N.A. with F41, FG2, or G66 . . . . . \$ 17.80

- **Lamps, Roof Rear-Quarter**
- **Lamp Switches, Automatic Interior-**
- **Louver Grilles, Chrome Front-Fender**
- **Moldings, Chrome Hood Center, Lower Body-Side, and Wheel-Opening**
- **Moldings, Chrome Roof Drip**
- **Moldings, Chrome Side-Window Sill**
- **Paint Stripes, Body-Side**
- **Radio Antenna, Windshield**
- **Rooftop Covering, Vinyl**
- **Seat, Custom Sport Front (with center armrest and bright moldings)**
- **Seat Cushions, Foam-Padded Front- and Rear-**
- **Seat Head Restraints, Dual Front-**
- **Seat Lap Belts, 3 Front- and 3 Rear-**
- **Seat Shoulder Belts, 2 Front-**
- **Steering, Vari-Ratio Power**
- **Steering Wheel, Deluxe**
- **Tires, H78 x 15" Blackwall Bias-Belted**
- **Transmission, Fully Synchronized 3-Speed Column-Shift Manual**
- **Ventilation, Flo-Thru Body**
- **Wheels, 15 x 6"**
- **Wheel Discs, Chrome**

- AU3 Door Locks, Power—N.A. with AU5. \$ 44.76**
- AU5 Door Locks and Front-Seat-Backrest Lock Releases, Power—N.A. with AU3. \$ 68.46**
- B32 Floor Mats, Auxiliary Front. \$ 7.37**
- B33 Floor Mats, Auxiliary Rear. \$ 7.16**
- B36 Floor Mat, Heavy-Duty Rubber Trunk \$ 7.90**
- B93 Moldings, Chrome Door-Edge Guard. \$ 5.27**
- C49 Window, Electric Defogging Rear—N.A. with K81. \$ 52.66**
- C60 Air Conditioner, Four-Season—Includes heavy-duty radiator. \$421.28**
- C61 Air Conditioner, Comfortron—Includes C60 and automatic comfort control. \$500.27**
- D33 Mirror, Remote-Control Outside Rearview. \$ 10.53**
- D55 Console, Sports—Includes lockable map case with lamp, rear console courtesy lamp, and floor-shift transmission control. A51 and M40 or M41 required. N.A. with N33 or Y78. \$ 61.09**
- G66 Shock Absorbers, Superlift Rear—For trailer towing. N.A. with B07. \$ 42.13**
- G80 Axle, Anti-Spin Rear. \$ 46.60**
- K30 Cruise Control, Automatic—M40 or M41 required. \$ 63.19**

- T87 Lamps, Cornering—M40 or M41 required. \$ 36.86**
- U15 Safety Sentinel—N.A. with U11. \$ 11.69**
- U57 Stereo Tape Player—Includes U80 with U63. U58 or U63 required: With U58. \$116.91; With U63. \$133.76**
- U58 Radio, AM-FM Stereophonic—Includes U80. \$238.02**
- U63 Radio, Deluxe Pushbutton. \$ 86.89**
- U80 Radio Speaker, Bi-Phonic Rear—Included with U57 and U58. \$ 16.85**
- W33 Engine, 390-hp High-Performance Rocket 455 V-8 H.C. (4-bbl. carburetor)—Includes dual exhausts. M41 required. Y72 required for police use. See Power Teams. \$ 77.94**
- Y60 Lamps and Mirrors, Convenience—Includes trunk and underhood lamps, visor vanity mirror, and rearview mirror with map lamp. \$ 11.80**
- Y72 Engine-Cooling Equipment, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron: With C60 or C61. \$ 21.06 Without C60 or C61. \$ 57.93**
- Y78 Windshield Washer/Wiper, Shift-Lever-Controlled—M40 or M41 required. N.A. with D55. \$ 21.06**

- F41 Suspension, Heavy-Duty—For strenuous service: trailer towing, police city cruiser service, continuous heavy trunk loads, and where most driving is on secondary and rural roads. Includes heavy-duty front and rear springs and front stabilizer bar, and FG2 shock absorbers. G66 shock absorbers available. N.A. with B07. \$ 21.06**
- †J55 Brakes, Heavy-Duty Power with Front Disc—Single piston front disc brakes with heavy-duty non-fading linings; 11.00 x 2½" heavy-duty duo-servo rear brakes; power brake application. Includes N99. M40 or M41 required. \$ 15.80**
- †K81 Delcotron, Heavy-Duty—60-ampere/hour alternator with solid state transistorized regulator; 19-ampere/hour at idle. N.A. with C49. \$ 21.06**
- †U11 Speedometer, Certified Police—Calibrated in increments of 2 mph from 0 to 120 mph and accurate within plus or minus 2 percent throughout speed range. N.A. with U15. \$ 3.16**

† For police usage only.

#### FACTORY-INSTALLED POWER TEAMS

Axle Ratio	Engine	Std. V-8		L31	W33
	Trans.	Std.	M40	M40	M41
2.56 (G96)		S	S		
2.93 (G94)	S	Aa	Aa	Sa	

S—Standard. A—Available. a—For performance or trailer towing.

Models . . .

# NINETY-EIGHT

. . . Equipment

8469 Town Sedan  
8439 Holiday Sedan

8669 Luxury Sedan  
8639 Luxury Sedan Hardtop

8457 Holiday Coupe  
8467 Convertible

## STANDARD EQUIPMENT

- **Armrest, Front-Seat Center** (except Town Sedan)
- **Armrest, Rear-Seat Center** (Luxury Sedans)
- **Armrests, Deluxe Front- and Rear-** (with bright accent moldings and backplates—Holiday and Town Sedans)
- **Armrests with Chrome Ashtrays and Lighters,** Deluxe Integral Rear-Quarter (Coupe and Convertible)
- **Armrests with Chrome Power Controls,** Deluxe Integral Front (except Holiday and Town Sedans)
- **Ashtrays,** Instrument-Panel, R.H. Front-Armrest, and Rear-Armrest
- **Battery,** 74-Ampere-Hour/90-Plate
- **Brakes,** Power Front Disc and Rear Drum
- **Cigar Lighters,** Instrument-Panel and 2 Front-Seat-Back (Town Sedan)
- **Cigar Lighters,** Instrument-Panel and Rear-Armrest (except Town Sedan)
- **Clock,** Electric

- **Seat Adjuster,** 2-Way Power Driver's (except Holiday and Town Sedans)
- **Seat Cushions,** Foam-Padded Front- and Rear-
- **Seat Head Restraints,** Dual Front-
- **Seat Lap Belts,** 3 Front and 3 Rear Deluxe
- **Seat Shoulder Belts,** 2 Front Deluxe (Sedans and Coupe)
- **Steering,** Vari-Ratio Power
- **Steering Wheel,** Deluxe
- **Tires,** J78 x 15" Blackwall Bias-Belted
- **Tire Cover,** Spare (Luxury Sedans)
- **Top,** Power (Convertible)
- **Transmission,** Turbo Hydra-matic 400 Column-Shift
- **Ventilation,** Flo-Thru Body
- **Wheels,** 15 x 6"
- **Wheel Discs,** Chrome
- **Wheel-Opening Covers,** Rear-
- **Windows,** Power Side (except Holiday and Town Sedans)

- AU3 Door Locks, Power—**For all doors. N.A. with AU5:  
Coupe and Convertible . . . . . \$ 44.76  
Sedans . . . . . \$ 68.46
- AU5 Door Locks and Front-Seat-Backrest Lock Releases, Power—**N.A. with AU3. Coupe and Convertible . . . . . \$ 68.46
- B32 Floor Mats, Auxiliary Front** . . . . . \$ 7.37
- B33 Floor Mats, Auxiliary Rear** . . . . . \$ 7.16
- B36 Floor Mat, Heavy-Duty Rubber Trunk** \$ 7.90
- B93 Moldings, Chrome Door-Edge Guard;** Coupe and Convertible . . . . . \$ 5.27  
Sedans . . . . . \$ 8.95
- C08 Rooftop Covering, Vinyl—**Sedans and Coupe . . . . . \$139.02
- C49 Window, Electric Defogging, Rear—**N.A. with K81. Sedans and Coupe . . . . . \$ 52.66
- C60 Air Conditioner, Four-Season—**Includes heavy-duty radiator . . . . . \$421.28
- C61 Air Conditioner, Comfortron—**Includes C60 and automatic comfort control . . . . . \$500.27
- D33 Mirror, Remote-Control Outside Rearview** . . . . . \$ 10.53
- D99 Finish, Two-Tone Magic-Mirror—**Sedans and Coupe . . . . . \$ 42.13

- Y60 Lamps and Mirrors, Convenience—**Includes trunk and underhood lamps, visor vanity mirror, and rearview mirror with map lamp . . . . . \$ 11.80
- Y70 Paint Stripes, Body-Side and Trunk-Lid** . . . . . \$ 15.80
- Y72 Engine-Cooling Equipment, Heavy-Duty—**Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron:  
With C60 or C61 . . . . . \$ 21.06  
Without C60 or C61 . . . . . \$ 57.93
- Y78 Windshield Washer/Wiper, Shift-Lever-Controlled** . . . . . \$ 21.06

## SPECIAL USE EQUIPMENT

(For usage, refer to Product Selling Literature)

- F35 Frame, Heavy-Duty Torque-Beam—**For trailer towing. N99 recommended. Sedans and Coupe . . . . . \$ 18.01
- F41 Suspension, Heavy-Duty—**For strenuous service; trailer towing, continuous heavy trunk loads, and where most driving is on

- **Delcotron**, 42-Ampere
- **Engine**, 365-hp Rocket 455 V-8 H.C. (4-bbl. carburetor)
- **Floor Carpeting**, Wall-to-Wall (plus carpeted cowl, door, and front-seat-back lower panels)
- **Frame**, Torque-Beam
- **Frame**, Heavy-Duty Torque-Beam (Convertible)
- **Instrument-Panel Trim**, Wood-Grain-Vinyl
- **Lamps**, Door Courtesy and Open-Door Warning (Convertible)
- **Lamps**, Instrument-Panel Ashtray, Courtesy, Glove Compartment, and Map
- **Lamps**, Rear-Armrest Courtesy (Convertible)
- **Lamps**, Roof Rear-Quarter (Sedans and Coupe)
- **Lamp Switches at All Doors**, Automatic Interior-
- **Moldings**, Chrome Body-Side, Rocker Panel, Fender, and Wheel-Opening
- **Molding**, Chrome Hood Center
- **Moldings**, Chrome Roof Drip (Sedans and Coupe)
- **Moldings**, Chrome Side-Window Sill
- **Pedals**, Chrome-Accented
- **Radio Antenna**, Windshield
- **Reflectors**, Open-Door Warning (Luxury Sedans)
- **Seat**, Armrest Bench Front (with bright moldings—Luxury Sedans)
- **Seat**, Bench Front (with bright moldings—Town Sedan)
- **Seat**, Custom Sport Front (with bright moldings—Holiday models and Convertible)

- **Window Shelf Covering**, Woven-Fiber Rear- (Sedans and Coupe)
- **Windshield Wipers**, Recessed-Park

#### FACTORY-INSTALLED EQUIPMENT

- A01 Windows**, Soft-Ray Tinted—Includes A02 ..... \$ 44.23
- A02 Windshield**, Soft-Ray Tinted—Included in A01 ..... \$ 29.49
- A31 Windows**, Power Side—Includes deluxe integral front armrests with power controls. Holiday and Town Sedans ..... \$110.59
- A42 Seat Adjuster**, 6-Way Power—N.A. with AM6: Except Holiday and Town Sedans... \$ 73.72  
Holiday and Town Sedans ..... \$100.05
- A85 Seat Shoulder Belts**, Deluxe Front—Convertible ..... \$ 26.33
- A90 Trunk-Lid Latch**, Power ..... \$ 14.74
- AG1 Seat Adjuster**, 6-Way Power Driver's-Side—AM6 required. Luxury Sedans and Coupe ..... \$ 73.72
- AG2 Seat Adjuster**, 6-Way Power Passenger's-Side. AM6 and AG1 required. Luxury Sedans and Coupe ..... \$100.05
- AM6 Seat with Dual Controls**, Divided Front—Includes 2-way power driver's-side adjuster. N.A. with A42. Luxury Sedans and Coupe. WJ3 required in Coupe ..... \$ 78.99
- AS4 Seat Shoulder Belts**, Deluxe Rear—A85 required in Convertible ..... \$ 26.33

- G66 Shock Absorbers**, Superlift Rear—For trailer towing. N.A. with FG2 ..... \$ 42.13
- G80 Axle**, Anti-Spin Rear ..... \$ 46.60
- K30 Cruise Control**, Automatic ..... \$ 63.19
- N33 Steering Wheel**, Tilt-Away—N.A. with N37 ..... \$ 45.29
- N37 Steering Wheel**, Tilt-and-Telescope—Includes Instant-Horn. N.A. with N33 ..... \$ 84.26
- N42 Steering Wheel with Instant-Horn**, Deluxe—N.A. with N37 ..... \$ 15.80
- P03 Wheel Discs**, Deluxe ..... \$ 31.60
- P26 Tires**, J78 x 15" Triple-White-Stripe Bias-Belted ..... \$ 36.86
- T44 Hood Lock**, Interior-Operated ..... \$ 10.53
- T81 Headlamp Off-Delay Control**, Night-Watch ..... \$ 12.64
- T87 Lamps**, Cornering ..... \$ 36.86
- U15 Safety Sentinel** ..... \$ 11.59
- U57 Stereo Tape Player**—Includes U80 with U63. U58 or U63 required: With U58... \$116.91; With U63... \$133.76
- U58 Radio**, AM-FM Stereophonic—Includes U80 ..... \$238.02
- U63 Radio**, Deluxe Pushbutton ..... \$ 86.89
- U80 Radio Speaker**, Bi-Phonic Rear—Included with U57 and U58 ..... \$ 16.85
- WJ3 Interior Trim**, Custom Leather—Luxury Sedans and Coupe ..... \$368.62

secondary and rural roads. Includes heavy-duty front and rear springs and front stabilizer bar, and FG2 shock absorbers. G66 shock absorbers available. .... \$ 21.06

**FG2 Shock Absorbers**, Firm-Ride-Control Front and Rear—For considerable secondary and rural road driving. Included in F41. . \$ 5.27

**M55 Oil Cooler**, Automatic Transmission Auxiliary—For trailer towing ..... \$ 15.80

**N99 Wheels**, Heavy-Duty 15 x 6"—For trailer towing. Included in J55 ..... \$ 10.53

**U89 Wiring Harness**, Trailer Electrical... \$ 10.53

#### POLICE EQUIPMENT

(For usage, refer to Product Selling Literature)

†**J55 Brakes**, Heavy-Duty Power with Front Disc—Single piston front disc brakes with heavy-duty non-fading linings; 11.00 x 2½" heavy-duty duo-servo rear brakes; power brake application. Includes N99 ..... \$ 15.80

†**K81 Delcotron**, Heavy-Duty—60-ampere/hour alternator with solid state transistorized regulator; 19-ampere/hour at idle. N.A. with C49 ..... \$ 21.06

† For police usage only.

#### FACTORY-INSTALLED POWER TEAMS

Std. V-8, std. Turbo Hydra-matic 400 Transmission, and 2.56 (std.) Axle or 2.93 (G94) Axle for performance or trailer towing.

Models . . .

**TORONADO**

. . . Equipment

9487 Toronado

9687 Toronado Custom

**STANDARD EQUIPMENT**

- **Armrests**, Deluxe Front- (with bright accent moldings and backplates)
- **Armrests**, Deluxe Integral Rear-Quarter
- **Ashtrays**, Instrument-Panel, R.H. Front-Door, and Rear-Armrest
- **Battery**, 74-Ampere-Hour/90-Plate
- **Brakes**, Power Front Disc and Rear Drum
- **Cigar Lighter**, Instrument-Panel
- **Cigar Lighters**, Rear-Armrest (9687)
- **Clock**, Electric
- **Delcotron**, 42-Ampere
- **Door Pull Handles** (9687)
- **Engine**, 375-hp Rocket 455 V-8 H.C. (4-bbl. carburetor)
- **Seat Lap Belts**, 3 Front- and 3 Rear-
- **Seat Shoulder Belts**, 2 Front-
- **Seat Upholstery and Sidewall Trim**, Custom (9687)
- **Steering**, Vari-Ratio Power
- **Steering Wheel**, Deluxe
- **Tires**, J78 x 15" Blackwall Bias-Belted
- **Transmission**, Turbo Hydra-matic 400 Column-Shift
- **Ventilation**, Flo-Thru Body
- **Wheels**, 15 x 6"
- **Wheel Discs**, Chrome (9687)
- **Wheel Hubcaps**, Chrome (9487)
- **Windshield Wipers**, Recessed-Park

**AU5 Door Locks and Front-Seat-Backrest Lock Releases**, Power—N.A. with AU3... \$ 68.46

**B32 Floor Mat**, Auxiliary Front..... \$ 10.01

**B33 Floor Mat**, Auxiliary Rear..... \$ 7.37

**B36 Floor Mat**, Heavy-Duty Rubber Trunk \$ 7.90

**B93 Moldings**, Chrome Door-Edge Guard \$ 5.27

**C08 Rooftop Covering**, Vinyl..... \$128.49

**C49 Window**, Electric Defogging Rear... \$ 52.66

**C60 Air Conditioner**, Four-Season — Includes heavy-duty radiator..... \$421.28

**C61 Air Conditioner**, Comfortron—Includes C60 and automatic comfort control..... \$500.27

**D33 Mirror**, Remote-Control Outside Rearview ..... \$ 10.53

**U57 Stereo Tape Player**—Includes U80 with U63. U58 or U63 required: With U58... \$116.91; With U63... \$133.76

**U58 Radio**, AM-FM Stereophonic—Includes U80 ..... \$238.02

**U63 Radio**, Deluxe Pushbutton..... \$ 86.89

**U80 Radio Speaker**, Bi-Phonic Rear—Included with U57 and U58..... \$ 16.85

**W34 Toronado GT Package**—Includes 400-hp High-Performance Rocket 455 V-8 H.C. with special camshaft and dual exhausts, special rear bumper notched for dual exhausts, performance transmission, special body-side paint stripes and special "Toronado GT" hood emblem. See Power Teams... \$ 47.39

**Y60 Lamps and Mirrors**, Convenience—Includes trunk and underhood lamps, visor vanity mirror, map lamp in visor support, plus door courtesy and open-door warning lamps in 9687: 9487..... \$ 11.80; 9687..... \$ 24.96

**Y70 Paint Stripes**, Body-Side—N.A. with W34 ..... \$ 10.53

- **Floor Carpeting, Wall-to-Wall** (plus carpeted cowl, door, and front-seat-back lower panels)
- **Frame, Torque-Beam**
- **Instrument-Panel Trim, Wood-Grain-Vinyl**
- **Lamps, Instrument-Panel Courtesy and Glove Compartment**
- **Lamps, Roof Rear-Quarter**
- **Lamp Switches, Automatic Interior-**
- **Moldings, Chrome Rocker Panel, Rear-Fender and Wheel-Opening**
- **Moldings, Chrome Roof Drip**
- **Moldings, Chrome Side-Window Sill**
- **Pedals, Chrome-Accented**
- **Radio Antenna, Windshield**
- **Seat, Bench Front (9487)**
- **Seat, Strato Bench Front (9687)**
- **Seats, Strato Bucket (See A51)**
- **Seat Cushions, Foam-Padded Front- and Rear-**
- **Seat Head Restraints, Dual Front-**

#### FACTORY-INSTALLED EQUIPMENT

<b>A01 Windows, Soft-Ray Tinted—Includes A02</b>	
.....	\$ 47.39
<b>A02 Windshield, Soft-Ray Tinted—Included in A01</b>	
.....	\$ 29.49
<b>A31 Windows, Power Side</b>	\$119.59
<b>A42 Seat Adjuster, 6-Way Power—For bench seat. N.A. with A51</b>	\$100.05
<b>A46 Seat Adjuster, 4-Way Power—For left-hand bucket seat. A51 required</b>	\$ 73.72
<b>A51 Seats, Strato Bucket</b>	No. Chg.
<b>A90 Trunk-Lid Latch, Power</b>	\$ 14.74
<b>AK1 Seat Belts, Deluxe Front and Rear Lap and Front Shoulder:</b>	
With A51	\$ 12.11; Without A51
	\$ 13.69
<b>A54 Seat Shoulder Belts, Deluxe Rear—AK1 required</b>	\$ 26.33
<b>A55 Seat Shoulder Belts, Rear—N.A. with AK1</b>	\$ 23.17
<b>AU3 Door Locks, Power—N.A. with AU5</b>	\$ 44.76

<b>D55 Console, Sports—Includes lockable map case with lamp, rear console lamp, and floor-shift transmission control. A51 required. N.A. with N33 or Y78</b>	\$ 50.55
<b>G66 Shock Absorbers, Superlift Rear—For trailer towing</b>	\$ 42.13
<b>JL9 Braking, True-Track</b>	\$
<b>K30 Cruise Control, Automatic</b>	\$ 63.19
<b>N33 Steering Wheel, Tilt-Away—N.A. with D55 or N37</b>	\$ 45.29
<b>N37 Steering Wheel, Tilt-and-Telescope—Includes Instant-Horn. N.A. with N33</b>	\$ 84.26
<b>N42 Steering Wheel with Instant-Horn, Deluxe—N.A. with N37</b>	\$ 15.80
<b>P03 Wheel Discs, Deluxe:</b>	
9487	\$ 40.02; 9687
	\$ 21.59
<b>P06 Wheel Trim Rings, Chrome—9487</b>	\$ 18.43
<b>P26 Tires, J78 x 15" Triple-White-Stripe Bias-Belted</b>	\$ 36.86
<b>T81 Headlamp Off-Delay Control, Night-Watch—C60 or C61 required</b>	\$ 12.64
<b>T87 Lamps, Cornering</b>	\$ 36.86

<b>Y72 Engine-Cooling Equipment, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron:</b>	
With C60 or C61	\$ 5.27
Without C60 or C61	\$ 57.93
<b>Y78 Windshield Washer/Wiper, Shift-Lever-Controlled—N.A. with D55</b>	\$ 21.06

#### SPECIAL USE EQUIPMENT

(For usage, refer to Product Selling Literature)

<b>F41 Suspension, Heavy-Duty — For strenuous service; trailer towing and continuous heavy trunk loads. Includes heavy-duty front torsion bars, rear springs, and front and rear shock absorbers. G66 shock absorbers available</b>	\$ 21.06
<b>M55 Oil Cooler, Automatic Transmission Auxiliary—For trailer towing</b>	\$ 15.80
<b>U89 Wiring Harness, Trailer Electrical</b>	\$ 10.53

#### FACTORY-INSTALLED POWER TEAMS

Std. V-8, std. Turbo Hydra-matic 400 Transmission, and 3.07 std. Axle.

W34 Engine, special Turbo Hydra-matic 400 Transmission, and 3.07 std. Axle.

Models . . .

# POLICE CARS

. . . Equipment

Delta 88: 5469 Town Sedan, 5439 Holiday Sedan, 5437 Holiday Coupe, 5467 Convertible.

Delta 88 Custom: 6469 Town Sedan, 6439 Holiday Sedan, 6437 Holiday Coupe.

Delta 88 Royale: 6647 Holiday Coupe.

## STANDARD EQUIPMENT

### ALL MODELS

- Ashtrays, Instrument-Panel, R.H. Front-Armrest, and Rear-Armrest
- Brakes, Power Front Disc and Rear Drum
- Cigar Lighter, Instrument-Panel
- Delcotron, 42-Ampere
- Frame, Torque-Beam (Heavy-Duty in Convertible)
- Instrument-Panel Trim, Wood-Grain-Vinyl
- Lamp, Instrument-Panel Ashtray
- Radio Antenna, Windshield
- Seat Head Restraints, Dual Front-
- Seat Lap Belts, 3 Front- and 3 Rear-
- Seat Shoulder Belts, 2 Front- (Sedans and Coupes)
- Steering, Vari-Ratio Power
- Steering Wheel, Deluxe
- Tires, H78 x 15" Blackwall Bias-Belted
- Transmission, Fully Synchronized 3-Speed Column-Shift Manual
- Ventilation, Flo-Thru Body
- Wheels, 15 x 6"
- Wheels Discs, Chrome
- Windshield Wipers, Recessed-Park

### DELTA 88

- Armrests, Front and Rear
- Battery, 61-Ampere-Hour/66-Plate (with std. V-8), 73-Ampere-Hour/78-Plate (with L30), or 74-Ampere-Hour/90-Plate (with L31 or W33)

- Seat, Custom Sport Front (with center armrest and bright moldings—Holiday models)
- Seat Cushion, Foam-Padded Front-
- Seat Cushion, Foam-Padded Rear- (Holiday models)
- Window Shelf Covering, Woven-Fiber Rear-

### DELTA 88 ROYALE ONLY

- Clock, Electric
- Lamps, Door Courtesy and Open-Door Warning
- Lamp, Instrument-Panel Glove Compartment
- Louver Grilles, Chrome Front-Fender
- Molding, Chrome Hood Center
- Moldings, Chrome Side-Window Sill
- Paint Stripes, Body-Side
- Rooftop Covering, Vinyl

### POLICE AND SPECIAL USE EQUIPMENT

(For usage, refer to Product Selling Literature)

- A74 Seats, Heavy-Duty Front and Rear—Includes heavy-duty interlaced springs with foam padding. Delta 88 Sedans . . . . . \$ 15.27
- †B07 Suspension, Highway Patrol—For high-speed police requirements. Includes heavy-duty front and rear springs, stabilizer bars, and shock absorbers, and reinforced rear-suspension lower control arms. N.A. with F41, FG2, or G66 . . . . . \$ 17.80
- BG1 Floor Covering, Heavy-Duty Black-Vinyl Front and Rear—Town Sedans . . . . . \$ 10.53

- †J90 Wiring Harness with Roof Panel Reinforcement, Roof-Flasher—Roof flasher not included. Sedans . . . . . \$ 16.85

- W33 Engine, 390-hp Highway Patrol Rocket 455 V-8 H.C. (4-bbl. carburetor)—Includes dual exhausts. M41 required. Y72 required for police use. See Power Teams: Delta 88 . . . . . \$199.05  
Custom and Royale . . . . . \$ 77.94

### OTHER EQUIPMENT SUITABLE FOR POLICE CARS

- A01 Windows, Soft-Ray Tinted—Includes A02 . . . . . \$ 44.23
- A02 Windshield, Soft-Ray Tinted—Included in A01 . . . . . \$ 29.49
- A31 Windows, Power Side . . . . . \$110.59
- A39 Seat Lap Belts, Deluxe Front- and Rear—Convertible . . . . . \$ 10.53
- A42 Seat Adjuster, 6-Way Power—For bench seat. N.A. with A51 . . . . . \$100.05
- A46 Seat Adjuster, 4-Way Power—For left-hand bucket seat. A51 required. Royale . . . . . \$ 73.72
- A51 Seats, Strato Bucket—Royale . . . . . No Chg.
- A85 Seat Shoulder Belts, Deluxe Front—A39 required. Convertible . . . . . \$ 26.33
- A90 Trunk-Lid Latch, Power . . . . . \$ 14.74

- K30 Cruise Control, Automatic—M40 or M41 required . . . . . \$ 63.19

- L30 Engine, 310-hp Rocket 455 V-8 Regular-Fuel (2-bbl. carburetor)—N.A. with M41. See Power Teams. Delta 88 . . . . . \$121.12

- L31 Engine, 365-hp Rocket 455 V-8 H.C. (4-bbl. carburetor)—M40 required. See Power Teams: Delta 88 . . . . . \$168.51  
Custom and Royale . . . . . \$ 47.39

- M40 Transmission, Turbo Hydra-matic 400—N.A. with W33. See Power Teams . . . . . \$227.04

- M41 Transmission, Heavy-Duty Turbo Hydra-matic 400—W33 required. See Power Teams . . . . . \$242.88

- N33 Steering Wheel, Tilt-Away—M40 or M41 required . . . . . \$ 45.29

- P26 Tires, H78 x 15" Dual-White-Stripe Bias-Belted . . . . . \$ 33.70

- T44 Hood Lock, Interior-Operated . . . . . \$ 10.53

- T81 Headlamp Off-Delay Control, Night-Watch . . . . . \$ 12.64

- T87 Lamps, Cornering—M40 or M41 required . . . . . \$ 36.86

- U15 Safety Sentinel—N.A. with U11 . . . . . \$ 11.59

- U35 Clock, Electric—Delta 88 and Custom \$ 16.85

- **Engine**, 250-hp Rocket 350 V-8 Regular-Fuel (2-bbl. carburetor)
- **Floor Carpeting**, Wall-to-Wall
- **Lamp**, Dome (Sedans and Coupe)
- **Lamps**, Instrument-Panel Courtesy and Map Lamps and Rear-Armrest Courtesy (Convertible)
- **Lamp Switches**, Automatic Front-Door Interior-
- **Moldings**, Chrome Body-Side, Rear-Fender, and Wheel-Opening
- **Moldings**, Chrome Roof Drip (Holiday Sedan)
- **Seat**, Bench Front (with bright moldings in Convertible)
- **Seat Cushion**, Foam-Padded Rear- (Coupe and Convertible)
- **Top**, Power (Convertible)

#### DELTA 88 CUSTOM AND ROYALE

- **Armrests**, Deluxe Front and Rear (with bright accent moldings and backplates)
- **Battery**, 73-Ampere-Hour/78-Plate (with std. V-8) or 74-Ampere-Hour/90-Plate (with L31 or W33)
- **Engine**, 310-hp Rocket 455 V-8 Regular-Fuel (2-bbl. carburetor)
- **Floor Carpeting**, Wall-to-Wall (with carpeted cowl and door lower panels, plus carpeted front-seat-back lower panel in Royale)
- **Lamp**, Dome (Town Sedan)
- **Lamps**, Instrument-Panel Courtesy and Map
- **Lamps**, Roof Rear-Quarter (Holiday models)
- **Lamp Switches at all Doors**, Automatic Interior-
- **Moldings**, Chrome Lower Body-Side, Rear-Fender, and Wheel-Opening
- **Moldings**, Chrome Roof Drip
- **Moldings**, Chrome Side-Window Frame (Town Sedan)
- **Seat**, Bench Front (with bright moldings—Town Sedan)

- F35 Frame**, Heavy-Duty Torque-Beam—N99 recommended. Sedans and Coupes... \$ 18.01
- F41 Suspension**, City Cruiser—For strenuous service: police city cruiser use, continuous heavy trunk loads, operations where most driving is on secondary and rural roads. Includes heavy-duty front and rear springs and front stabilizer bar, and FG2 shock absorbers. G66 available, N.A. with B07. \$ 21.06
- FG2 Shock Absorbers**, Firm-Ride-Control Front and Rear—For considerable secondary and rural road driving. Included in F41. N.A. with B07. \$ 5.27
- G66 Shock Absorbers**, Superlift Rear—N.A. with B07. \$ 42.13
- †J55 Brakes**, Heavy-Duty Power with Front Disc—Single piston front disc brakes with heavy-duty non-fading linings; 11.00 x 2½" heavy-duty, duo-servo rear brakes; power brake application. Includes N99, M40 or M41 required. (Also available in Ninety-Eight models.)... \$ 15.80
- †K81 Delcotron**, Heavy-Duty—60-ampere/hour alternator with solid state transistorized regulator; 19-ampere/hour at idle. N.A. with C49. (Also available in Ninety-Eight models.)... \$ 21.06
- M55 Oil Cooler**, Automatic Transmission Auxiliary—M40 or M41 required... \$ 15.80
- N99 Wheels**, Heavy-Duty 15 x 6"—Included in J55... \$ 10.53
- †U11 Speedometer**, Certified Police—Calibrated in increments of 2 mph from 0 to 120 mph and accurate within plus or minus 2 percent throughout speed range. N.A. with U15... \$ 3.16

- AK1 Seat Belts**, Deluxe Front and Rear Lap and Front Shoulder—Sedans and Coupes: With A51... \$ 12.11; Without A51... \$ 13.69
- AS1 Seat Shoulder Belts**, Front—N.A. with A39 or AS4. Convertible... \$ 23.17
- AS4 Seat Shoulder Belts**, Deluxe Rear—A39 or AK1 required... \$ 26.33
- AS5 Seat Shoulder Belts**, Rear—N.A. with A39, A85, or AK1... \$ 23.17
- AU3 Door Locks**, Power—For all doors N.A. with AU5: Coupes and Convertible... \$ 44.76 Sedans... \$ 68.46
- AU5 Door Locks and Front-Seat-Backrest Lock Releases**, Power—N.A. with AU3. Coupes and Convertible... \$ 68.46
- B32 Floor Mats**, Auxiliary Front... \$ 7.37
- B33 Floor Mats**, Auxiliary Rear... \$ 7.16
- B36 Floor Mat**, Heavy-Duty Rubber Trunk \$ 7.90
- B50 Seat Cushion**, Foam-Padded Front—Delta 88... \$ 11.64
- B93 Moldings**, Chrome Door-Edge Guard: Coupes and Convertible... \$ 5.27 Sedans... \$ 8.95
- C49 Window**, Electric Defogging Rear—N.A. with K81... \$ 52.66
- C60 Air Conditioner**, Four-Season—Includes heavy-duty radiator... \$421.28
- C61 Air Conditioner**, Comfortron—Includes C60 and automatic comfort control... \$500.27
- D33 Mirror**, Remote-Control Outside Rearview... \$ 10.53
- G80 Axle**, Anti-Spin Rear... \$ 46.60

- Y72 Engine-Cooling Equipment**, Heavy-Duty—Includes heavy-duty radiator and water pump, Thermo-Cool engine fan, and 55-ampere Delcotron: With C60 or C61... \$ 21.06 Without C60 or C61... \$ 57.93
- Y78 Windshield Washer/Wiper**, Shift-Lever-Controlled—M40 or M41 required... \$ 21.06

#### FACTORY-INSTALLED POWER TEAMS

##### DELTA 88

Axle Ratio	Engine	Std. V-8	L30	L31	W33
	Trans.	Std. M40	Std. M40	M40	M41
2.56 (G96)				S	S
2.78 (G95)		S			
2.93 (G94)			S	Aa	Aa Sa
3.23 (G91)	S	Aa			

##### DELTA 88 CUSTOM AND ROYALE

Axle Ratio	Engine	Std. V-8	L31	W33
	Trans.	Std. M40	M40	M41
2.56 (G96)			S	S
2.93 (G94)		S	Aa	Aa Sa

S—Standard, A—Available, a—For performance or trailer towing. †For police usage only

PLUS OTHER EQUIPMENT LISTED ON INDIVIDUAL MODEL-GROUP PAGES

## TRAILER-TOWING EQUIPMENT FOR SPECIFIC MODELS AND TRAILER WEIGHTS

FULL-SIZE MODELS	TORONADO			NINETY-EIGHT			DELTA 88 ROYALE DELTA 88 CUSTOM • DELTA 88		
	Light Weight (SAE Class 1)	Medium Weight (SAE Class 2)	Heavy Weight (SAE Class 3)	Light Weight (SAE Class 1)	Medium Weight (SAE Class 2)	Heavy Weight (SAE Class 3)	Light Weight (SAE Class 1)	Medium Weight (SAE Class 2)	Heavy Weight (SAE Class 3)
Gross Trailer Weight (lb.) Maximum Tongue Load (lb.)	1000-2000 a 200	2000-3500 350	3500-5000 500	1000-2000 a 200	2000-3500 350	3500-5000 500	1000-2000 a 200	2000-3500 350	3500-5000 500
Extra-Performance V-8 Engine	Not Required. 375-hp Rocket 455 V-8 Standard			Not Required. 365-hp Rocket 455 V-8 Standard			Not Required. 250-hp Rocket 350 V-8 (Delta 88) and 310-hp Rocket 455 V-8 (Others) Standard	310-hp Rocket 455 V-8 (L30) Recommended in Delta 88. Standard in Others	365-hp Rocket 455 V-8 (L31) Required. 390-hp Rocket 455 V-8 (W33) Available
Heavy-Duty Engine-Cooling Equipment (Y72)	Recommended or Required b	Required		Recommended or Required b	Required		Recommended or Required b	Required	
Automatic Transmission	Turbo Hydra-matic 400 (M40) Standard			Turbo Hydra-matic 400 (M40) Standard			Turbo Hydra- matic 400 (M40) Recommended	Turbo Hydra-matic 400 (M40) Required	
Automatic Transmission Auxiliary Oil Cooler (M55)	Recommended or Required b	Required		Recommended or Required b	Required		Recommended or Required b	Required	
Performance Rear Axle Ratio	Not Required. 3.07-to-1 Standard			2.93-to-1 (G94) Recommended	2.93-to-1 (G94) Required		3.23-(G91, Delta 88), or 2.93-(G94, Others) to-1 Recommended	3.23-to-1 (G91) with Rocket 350 V-8, or 2.93-to-1 (G94) with Rocket 455 V-8 Required	2.93-to-1 (G94) Required
Anti-Spin Rear Axle (G80)	Not Required			Available			Available		
Heavy-Duty Torque-Beam Frame (F35)	Not Required			Standard in Convertible. Available in Other Models		Required	Standard in Convertible. Available in Other Models		Required
Heavy-Duty Suspension (F41)	Available	Recommended	Required	Available	Recommended	Required	Available	Recommended	Required
Superlift Rear Shock Absorbers (G66)	Available			Available			Available		
Bias-Belted Tires	J78 x 15" Standard			J78 x 15" Standard			H78 x 15" Standard		
Equalizing Load-Leveling Trailer Hitch	Not Required	Required e		Not Required	Required e		Not Required	Required e	
Trailer Electrical Wiring Harness (U85)	Recommended			Recommended			Recommended		

INTERMEDIATE MODELS	VISTA-CRUISER			4-4-2		CUTLASS SUPREME		CUTLASS 5 CUTLASS • F-85	
	Light Weight (SAE Class 1)	Medium Weight (SAE Class 2)	Heavy Weight (SAE Class 3)	Light Weight (SAE Class 1)	Medium Weight (SAE Class 2)	Light Weight (SAE Class 1)	Medium Weight (SAE Class 2)	Light Weight (SAE Class 1)	Medium Weight (SAE Class 2)
Gross Trailer Weight (lb.) Maximum Tongue Load (lb.)	1000-2000 a 200	2000-3500 350	3500-5000 500	1000-2000 a 200	2000-3500 350	1000-2000 a 200	2000-3500 350	1000-2000 a 200	2000-3500 350
Extra-Performance V-8 Engine f	250-hp Rocket 350 V-8 Standard, 310-hp Rocket 350 V-8 (L74) Recommended	310-hp Rocket 350 V-8 (L74) Required, 365-hp Rocket 455 V-8 (L31) Recommended	365-hp Rocket 455 V-8 (L31) Required	Not Required, 365-hp 4-4-2 Rocket 455 V-8 Standard		Not Required, 310-hp Rocket 350 V-8 Standard, 320-hp Rocket 455 V-8 (L33) Available		250-hp Rocket 350 V-8 Standard, 310-hp Rocket 350 V-8 (L74) Recommended	310-hp Rocket 350 V-8 (L74) Required
Heavy-Duty Engine-Cooling Equipment (Y72)	Recommended, or Required b	Required		Recommended, or Required b	Required	Recommended	Required	Recommended	Required
Automatic Transmission	Turbo Hydra-matic 350 (M38) Recommended	Turbo Hydra-matic 350 (M38) Required	Turbo-Hydra-matic 400 (M40) Required	Turbo Hydra-matic 400 (M40) Recommended	Turbo Hydra-matic 400 (M40) Required	Turbo Hydra-matic 350 (M38) Recommended	Turbo Hydra-matic 350 (M38) Required d	Turbo Hydra-matic 350 (M38) Recommended	Turbo Hydra-matic 350 (M38) Required
Automatic Transmission Auxiliary Oil Cooler (M55)	Recommended, or Required b	Required		Recommended, or Required b	Required	Recommended, or Required b	Required	Recommended, or Required b	Required
Performance Rear Axle Ratio	3.08-to-1 (G90) Required			3.08-to-1 (G90) Recommended c	3.08-to-1 (G90) Required	3.08-to-1 (G90) Recommended c	3.08-to-1 (G90) Required	3.08-to-1 (G90) Recommended c	3.08-to-1 (G90) Required
Anti-Spin Rear Axle (G80)	Available			Available		Available		Available	
Power Front Disc Brakes (JLZ)	Standard			Recommended		Recommended		Recommended (Standard in Station Wagon)	
Heavy-Duty Suspension (F41)	Available	Recommended	Required	Heavy-Duty Rear Springs (G51) Recommended cd	Heavy-Duty Rear Springs (G51) Required d	Available	Recommended	Available	Recommended
Superlift Rear Shock Absorbers (G66)	Available			Available d		Available		Available	
Bias-Belted Tires	H78 x 14" Standard			G70 x 14" Standard		G78 x 14" Standard		G78 x 14" Standard	
Equalizing Load-Leveling Trailer Hitch	Not Required	Required e		Not Required	Required e	Not Required	Required e	Not Required	Required e
Trailer Electrical Wiring Harness (U89)	Recommended			Recommended		Recommended		Recommended	

a—No special equipment is usually required for trailers weighing less than 3000 pounds. b—Required for unusually high temperatures, heavy traffic, hilly terrain, or towing trailer wider than the frontal area of the car. c—Recommended if towing is continuous. d—Turbo Hydra-matic 400 required with Rocket 455 V-8 Engine. e—Not offered by Oldsmobile. f—Dual exhaust recommended where available, standard on 455 V-8 engine.

**Trailer Hitch**—The attachment for towing a trailer requires careful consideration. While a bumper hitch may be satisfactory for lightweight types of trailers, the hitch for heavier trailers must not attach to the rear bumper or frame rear crossmember only, but must be designed to distribute the load to suitable structural members of the vehicle. Since there are many types, weights, and sizes of trailers, and numerous trailer hitch designs, each having its individual performance characteristics, it is not practical for Oldsmobile to thoroughly test and evaluate the merits of each. Oldsmobile is therefore unable to offer specific recommendations or assume responsibility of the operation of trailer hitches—which are not manufactured or supplied by Oldsmobile.

DEALER-INSTALLED EQUIPMENT	PART NUMBER	MODELS				INSTALLATION			
		Intermediate		88 Models	Ninety-Eight	Tornado	Suggested List Price (\$)	Approx. Time (Hr.)	Installed Price (\$)
		Cars	Wagons						
Brakes, Pedal-Ease Power (J50)	L-6 models	983166	●				43.87	1.5	
	V-8 models	983167	●				43.87	1.5	
Bumper Guards, Front		983175					19.30	0.4	
Clock, Electric (W35)		983151	●	●			16.45	0.3	
	Standard in Delta 88 Royale	983152			●		17.40	0.4	
Cruise Control, Automatic (K30) — Power brakes and automatic transmission required	V-8 models	983176	●	●			54.50	3.6	
		983177			●		59.50	3.3	
	With Tilt-and-Telescope Steering Wheel (N37)	983178				●	59.50	3.2	
	With Tilt-and-Telescope Steering Wheel (N37)	983180				●	59.50	2.3	
	Without N37	983177				●	59.50	3.3	
	Without N37	983179				●	59.50	2.4	
Cruise Control Adapter Package	For V-8 with 2-barrel carburetor	983184	●	●	●		2.93	—	
Floor Mats, Auxiliary — Black, blue, brown, gold, or green	Full-width front mat	—	●	●	●	●	9.35	—	
	Full-width front mat (832)	—				●	9.90	—	
	Pair of front mats (832)	—	●	●	●	●	7.40	—	
	Full-width rear mat (833)	—				●	7.30	—	
	Pair of rear mats (833)	—	●	●	●	●	7.70	—	
Floor Mat, Heavy-Duty Rubber Trunk (836)		982818	●		●	●	7.90	—	
		982755				●	7.90	—	
Headlamp Control, Guide-Matic		983095			●	●	46.50	0.8	
Hood Lock, Interior-Operated (F44)		983168	●	●	●	●	10.75	0.5	
Lamps, Courtesy and Map		983153	●				6.75	0.6	
Lamps, Courtesy	Standard in Delta 88 Custom and Royale	983136			●		3.50	0.3	
Lamp, Glove Compartment		983150	●	●			1.50	0.5	
	Standard in Delta 88 Royale	983076			●		2.30	0.3	
Lamp, Portable Spot		987112	●	●		●	8.15	—	
Lamp, Trunk		983186	●		●	●	2.70	0.2	
		982951				●	2.70	0.2	
Lamp, Underhood		983173	●	●	●	●	2.70	0.2	
Luggage Carrier, Chrome Rooftop (V55)	Cutless Station Wagon	983105		●			52.80	1.5	
	Vista-Cruiser	983106		●			52.80	1.5	
Luggage Carrier Cover, Kakpak	Cutless Station Wagon	983013		●			36.45	—	
	Vista-Cruiser	983014		●			36.45	—	
Mirror, Outside Rearview (Right-Hand)		983138	●	●		●	5.25	0.3	
		983080			●	●	5.25	0.3	
Mirror, Remote-Control Outside Rearview (D33, Left-Hand)		983137	●	●			13.75	0.5	
		983082			●	●	13.75	0.5	
		982949				●	13.75	0.5	

<b>Mirrors, Sports-Styled Outside Rearview (D35)</b>		983185	•						22.80	1.4b
<b>Mirror, Visor Vanity</b>		983075	•	•	•	•	•	•	1.95	0.3
<b>Moldings, Chrome Door-Edge Guard (B93)</b>	2-door models	983108	•						4.95	0.2
	2-door models	983020			•	•			4.95	0.2
	2-door models	982891					•		4.95	0.2
	4-door models except Vista-Cruiser	983109	•	•					8.65	0.2
	Vista-Cruiser	983110		•					8.65	0.2
	4-door models	983021			•				8.65	0.2
	4-door models	983022					•		8.65	0.2
<b>Radio, Deluxe Pushbutton (U63)</b>		983160	•	•					63.50	0.6
		983162			•	•			78.00	0.9
		983164					•		78.00	2.3
<b>Radio, AM-FM Stereophonic (U58)</b>		983161	•	•					219.65	1.2
		983163			•	•			219.65	1.5
		983165					•		219.65	2.6
<b>Radio Speaker, Bi-Phonic Rear (U80)</b>	Except Convertible	983157	•						13.90	0.8
		983158		•					13.90	1.3
	Convertible	983159	•						13.90	0.9
	Delta 88 except Convertible	983058			•				13.90	0.9
	Delta 88 Convertible	983059			•				13.90	1.0
	Delta 88 Custom and Royale, Ninety-Eight	983059			•	•			13.90	1.0
	983060						•	13.90	1.0	
<b>Seat, Child Safety</b>	Deluxe	987499	•	•	•	•	•	•	18.95	--
	Standard	991502	•	•	•	•	•	•	8.95	--
<b>Seat, Deluxe Infant Carrier</b>		992970	•	•	•	•	•	•	9.95	--
<b>Seat Belt Retainer</b>		983154	•	•	•	•	•	•	.45	--
<b>Ski Rack, Rooftop</b>		982997	•						33.50	0.8
<b>Stereo Tape Player (U57)—Radio and rear-seat speaker required.</b>		983139	•	•					116.75	0.9a
		983140			•	•			116.75	1.1
		983141					•		116.75	1.3
<b>Trunk-Lid-Latch Release, Power (A91)</b>		983181	•		•	•			14.50	1.0
		983181					•		14.50	0.9
<b>Wheels, Simulated-Wire (N85)</b>		983015	•	•					80.90	0.2
<b>Wheel Discs (P01)—For 14" wheels</b>		983111	•	•					21.85	0.2
<b>Wheel Discs, Deluxe (P02)—For 14" wheels</b>		983112	•	•					61.50	0.2
<b>Wheel Discs, Deluxe (P03)—For 15" wheels</b>		983113			•	•			64.00	0.2
		983114					•		64.00	0.2
<b>Wheel Trim Rings (P06)</b>		982761					•		17.25	0.2
<b>Window Defogger, Rear- (C50)—Blower type</b>	Except Convertible	983155	•						27.15	1.6
	Except Convertible	983156			•	•			27.15	1.5
		983182					•		27.15	1.3
<b>Window Air Deflector, Tailgate (C51)</b>		983101		•					18.75	0.5b

a—Plus 0.2 hr. W/C A.C.      b—Including paint.



<b>DELTA 88</b>	Town Sedan	Bench (Std.)	10		60		52	42		43	63		44	64			58
	Holiday Sedan	Bench (Std.)	10					42		43			44				
		Custom Sport (Y71)			60		52				63		64				58
	Holiday Coupe	Bench (Std.)	10					42		43			44				
		Custom Sport (Y71)			60		52				63		64				58
Convertible	Bench (Std.)	10				12			13			14		17			
<b>VISTA-CRUISER</b>	2-Seat Model	Bench (Std.)	10			12			13			44				19	
	3-Seat Model	Bench (Std.)	10			12			13			44				19	
<b>4-4-2</b>	Sports Coupe	Bench (A52)	10			12				43		44	17				
		Strato Bucket (Std.)	30			32			33		34		37				
	Holiday Coupe	Bench (A52)	10			12				43		44	17				
		Strato Bucket (Std.)	30			32			33		34		37				
	Convertible	Custom Sport (A65)	10			12			13		14		17			19	
		Strato Bucket (Std.)	30			32			33		34		37			39	
<b>CUTLASS SUPREME</b>	Holiday Sedan	Custom Sport (Std.)		40		12				43		44			18		
	Hardtop Coupe	Custom Sport (A65)		40				42		43		44	17			19	
		Strato Bucket (Std.)	30			32			33		34		37			39	
	Convertible	Custom Sport (A65)	10			12			13		14		17			19	
		Strato Bucket (Std.)	30			32			33		34		37			39	
<b>CUTLASS S</b>	Sports Coupe	Bench (Std.)	10			12				43		44	17				
		Strato Bucket (A51)	30			32			33		34		37				
	Holiday Coupe	Bench (Std.)	10			12				43		44	17				
		Strato Bucket (A51)	30			32			33		34		37				
<b>CUTLASS</b>	Town Sedan	Bench (Std.)	10					42	13			44			18		
	Holiday Sedan	Bench (Std.)	10					42	13			44			18		
	Station Wagon	Bench (Std.)	10			12			13			44			19		
<b>F-85</b>	Sports Coupe	Bench (Std.)	10			12			13		14				18		

# RECOMMENDED EXTERIOR AND INTERIOR COLOR COMBINATIONS

TORONADO, NINETY-EIGHTS, 88s, AND INTERMEDIATES

EXTERIOR COLOR	CODE	INTERIOR COLORS in addition to Black or Ivory	VINYL ROOFTOP COLORS in addition to Black or White	CONVERTIBLE TOP COLORS in addition to Black or White	PAINT STRIPE COLORS	BODYGUARD MOLDINGS VINYL COLORS
Porcelain White	10	Any Interior Color	Blue, Gold, Green, Saddle	Blue, Gold	Black, Blue, Gold, Red	Black
Platinum	14	Blue	Blue	Blue	Black, Blue, Red, White	Black
Azure Blue	20	Blue	Blue	Blue	Black, Blue, White	Dark Blue
Aspen Green	45	Green	Green	None	Black, White	Dark Green
Sherwood Green	48	Green, Saddle, Sandalwood	Green, Saddle	None	Black, Gold, White	Dark Green
Galleon Gold	55	Gold, Saddle, Sandalwood	Gold, Saddle	Gold	Black, Gold, White	Dark Gold
Burnished Gold	58	Gold, Sandalwood	Gold	Gold	Black, Gold, White	Dark Gold
Copper	63	Saddle, Sandalwood	Saddle	None	Black, White	Light Saddle
<b>NINETY-EIGHTS, 88s, AND INTERMEDIATES (Not available on Toronado)</b>						
Ebony Black	19	Any Interior Color	Blue, Gold, Green, Saddle	Blue, Gold	Blue, Gold, Red, White	Black
Astro Blue	25	Blue	Blue	Blue	Black, Blue, White	Dark Blue
Twilight Blue	28	Blue	Blue	Blue	Black, Blue, White	Dark Blue
Reef Turquoise	34	None	None	None	Black, White	Black
Bamboo	50	Gold, Saddle, Sandalwood	Gold, Saddle	Gold	Black, Gold, White	Dark Gold
Matador Red	75	None	None	None	Black, White	Black
Burgundy Mist	78	None	None	None	Black, Gold, Red, White	Black
<b>EXCLUSIVE TORONADO COLORS</b>						
Oxford Gray	16	None	None	—	Black, White	—
Viking Blue	26	Blue	Blue	—	Black, Blue, White	—
Ming Jade	46	Green	Green	—	Black, White	—
Sandalwood	61	Saddle	Saddle	—	Black, White	—

## INTERIORS

INTERIOR COLORS	INTERIOR COMPONENT COLORS
Black	Headlining ..... Black Floor Covering ..... Black Instrument Panel ..... Black Standard Seat Belts ..... Black Deluxe Seat Belts ..... Black
Blue	Headlining ..... Medium Blue Floor Covering ..... Dark Blue Instrument Panel ..... Dark Blue Standard Seat Belts ..... Dark Blue Deluxe Seat Belts ..... Dark Blue
Gold	Headlining ..... Medium Gold Floor Covering ..... Dark Gold Instrument Panel ..... Dark Gold Standard Seat Belts ..... Medium Gold Deluxe Seat Belts ..... Medium Gold
Green	Headlining ..... Dark Green Floor Covering ..... Dark Green Instrument Panel ..... Dark Green Standard Seat Belts ..... Dark Green Deluxe Seat Belts ..... Dark Green
Ivory	Headlining ..... Ivory Floor Covering ..... Black Instrument Panel ..... Black Standard Seat Belts ..... Black Deluxe Seat Belts ..... Black

Cinnamon Bronze	68	Saddle	Saddle	—	Black, Gold, White	—
Grenadier Red	74	None	None	—	Black, Gold, White	—
Regency Rose	76	None	None	—	Black, White	—
<b>SPECIAL-ORDER (EXTRA COST) COLORS</b>						
Aegean Aqua	38	None	None	None	Black, Gold, White	Black
Sebring Yellow*	51	Gold, Saddle, Sandalwood	Gold, Saddle	Gold, Saddle	Black, Gold, White	Black
Nugget Gold	53	Gold, Saddle	Gold, Saddle	Gold	Black, Gold, White	Black
Rally Red*	73	None	None	None	Black, White	Black

Saddle	Headlining	Dark Brown
	Floor Covering	Dark Brown
	Instrument Panel	Brown
	Standard Seat Belts	Black
	Deluxe Seat Belts	Dark Brown
Sandalwood	Headlining	Sandalwood
	Floor Covering	Dark Brown
	Instrument Panel	Dark Brown
	Standard Seat Belts	Black
	Deluxe Seat Belts	Sandalwood

### RECOMMENDED EXTERIOR AND INTERIOR COLOR COMBINATIONS (TWO-TONE)

BASIC EXTERIOR COLOR**	SECOND EXTERIOR COLOR	C O D E	INTERIOR COLORS in addition to Black	BASIC EXTERIOR COLOR**	SECOND EXTERIOR COLOR	C O D E	INTERIOR COLORS in addition to Ivory	BASIC EXTERIOR COLOR**	SECOND EXTERIOR COLOR	C O D E	INTERIOR COLORS			
Ebony Black (19)	Porcelain White	10	Ivory	Porcelain White (10)	Platinum	14	Black	Platinum (14)	Astro Blue Twilight Blue	25 28	Blue			
	Platinum	14	None		Azure Blue Astro Blue Twilight Blue	20 25 28	Blue	Azure Blue (20)	Astro Blue Twilight Blue	25 28	Blue			
	Azure Blue Astro Blue Twilight Blue	20 25 28	Blue		Reef Turquoise	34	None	Astro Blue (25)	Twilight Blue	28	Blue			
	Reef Turquoise	34	None		Aspen Green Sherwood Green	45 48	Green	Aspen Green (45)	Sherwood Green	48	Green			
	Aspen Green Sherwood Green	45 48	Green		Bamboo Galleon Gold	50 55	Gold	Bamboo (50)	Galleon Gold Burnished Gold	55 58	Gold			
	Bamboo Galleon Gold	50 55	Gold, Sandalwood		Galleon Gold	55	Gold, Sandalwood	Galleon Gold (55)	Burnished Gold	58	Gold			
	Burnished Gold	58	Gold		Copper	63	Saddle							
	Copper	63	Saddle		Rally Red Matador Red Burgundy Mist	73 75 78	None	Rally Red Matador Red Burgundy Mist	73 75 78	None	Matador Red (75)	Burgundy Mist	78	Black, Ivory
	Rally Red Matador Red Burgundy Mist	73 75 78	None											

\*Intermediate models only.

\*\*Basic Exterior Color is lower body color, but colors may be reversed.

POWER TEAMS		AUTOMATIC TRANSMISSIONS			FULLY SYNCHRONIZED MANUAL TRANSMISSIONS					
		Heavy-Duty Turbo Hydra-matic 400 (M41)	Turbo Hydra-matic 400 (M40)	Turbo Hydra-matic 350 (M38)	4-Speed Floor-Shift Wide-Ratio (M20)	4-Speed Floor-Shift Close-Ratio (M21)	Heavy-Duty 3-Speed Floor-Shift (M14)	3-Speed Column-Shift (Std. V-8)	3-Speed Column-Shift (Std. V-4)	3-Speed Column-Shift (Std. L-8)
		Ratios: First...2.48:1 Second...1.48:1 Third...1.00:1 Reverse...2.08:1	Ratios: First...2.48:1 Second...1.48:1 Third...1.00:1 Reverse...2.08:1	Ratios: First...2.52:1 Second...1.52:1 Third...1.00:1 Reverse...1.93:1	Ratios: First...2.52:1 Second...1.88:1 Third...1.45:1 Fourth...1.00:1 Reverse...2.60:1	Ratios: First...2.20:1 Second...1.64:1 Third...1.28:1 Fourth...1.00:1 Reverse...2.27:1	Ratios: First...2.42:1 Second...1.61:1 Third...1.00:1 Reverse...2.33:1	Ratios: First...2.42:1 Second...1.61:1 Third...1.00:1 Reverse...2.33:1	Ratios: First...2.54:1 Second...1.50:1 Third...1.00:1 Reverse...2.63:1	Ratios: First...2.85:1 Second...1.68:1 Third...1.00:1 Reverse...2.95:1
MODELS	ENGINES	AXLES FOR ABOVE TRANSMISSIONS*								
TORONADO	400-HP Rocket 455 V-8 H.C. (W34)	N.A.	3.07:1 (Std.)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	375-HP Rocket 455 V-8 H.C. (Std.)	N.A.	3.07:1 (Std.)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NINETY-EIGHT	365-HP Rocket 455 V-8 H.C. (Std.)	N.A.	2.56:1 (Std.) 2.93:1 (G94) <sup>a</sup>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
DELTA 88 ROYALE, DELTA 88 CUSTOM, DELTA 88	390-HP Rocket 455 V-8 H.C. (W33)	2.93:1 (Std.) <sup>a</sup>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	365-HP Rocket 455 V-8 H.C. (L31)	N.A.	2.56:1 (Std.) 2.93:1 (G94) <sup>a</sup>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	310-HP Rocket 455 V-8 Reg.-Fuel (Std.; L30, Delta 88)	N.A.	2.56:1 (Std.) 2.93:1 (G94) <sup>a</sup>	N.A.	N.A.	N.A.	N.A.	2.93:1 (Std.)	N.A.	N.A.
	250-HP Rocket 350 V-8 Reg.-Fuel (Std. Delta 88)	N.A.	2.78:1 (Std.) 3.23:1 (G91) <sup>a</sup>	N.A.	N.A.	N.A.	N.A.	3.23:1 (Std.)	N.A.	N.A.
VISTA-CRUISER	365-HP Rocket 455 V-8 H.C. (L31)	N.A.	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90) <sup>a</sup>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	310-HP Rocket 350 V-8 H.C. (L74)	N.A.	N.A.	2.56:1 (G96) 2.78:1 (G95) 3.08:1 (Std.) <sup>a</sup> 3.23:1 (G91)	N.A.	N.A.	N.A.	N.A.	3.23:1 (Std.)	N.A.
	250-HP Rocket 350 V-8 Reg.-Fuel (Std.)	N.A.	N.A.	2.56:1 (G96) 2.78:1 (Std.) 3.08:1 (G90) <sup>a</sup> 3.23:1 (G91)	N.A.	N.A.	N.A.	N.A.	3.23:1 (Std.)	N.A.
4-4-2	370-HP Force-Air Rocket 455 V-8 H.C. (W30)	N.A.	3.23:1 (G91) <sup>b</sup> 3.42:1 (Std.) <sup>d</sup> 3.91:1 (G88) <sup>d</sup>	N.A.	N.A.	3.42:1 (Std.) <sup>d</sup> 3.91:1 (G88) <sup>d</sup>	N.A.	N.A.	N.A.	N.A.
	365-HP 4-4-2 Rocket 455 V-8 H.C. (Std.)	N.A.	2.56:1 (G96) 2.78:1 (G95) 3.08:1 (G90) <sup>a</sup> 3.23:1 (Std.) 3.42:1 (G92) <sup>d</sup>	N.A.	N.A.	3.23:1 (G91) <sup>b</sup> 3.42:1 (Std.) <sup>d</sup>	3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) <sup>d</sup>	N.A.	N.A.	N.A.

CUTLASS SUPREME	385-HP Rocket 455 V-8 H.C. (W32)	N.A.	2.56:1 (G95) 2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) de	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	320-HP Rocket 455 V-8 H.C. (L33)	N.A.	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	310-HP Rocket 350 V-8 H.C. (Std.)	N.A.	N.A.	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) d	3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) de	3.42:1 (Std.) 3.91:1 (G88) de	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) de	N.A.	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) d	N.A.
	250-HP Rocket 350 V-8 Reg.-Fuel (L65)	N.A.	N.A.	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) d	3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) de	3.42:1 (Std.) 3.91:1 (G88) de	2.78:1 (G95) 3.08:1 (G95) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) de	N.A.	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) d	N.A.
CUTLASS S, CUTLASS, F-85	325-HP Force-Air Rocket 350 V-8 H.C. (W31, Cutlass S, F-85)	N.A.	N.A.	3.42:1 (G92) 3.91:1 (Std.) d	3.42:1 (G92) 3.91:1 (Std.) d	3.42:1 (G92) 3.91:1 (Std.) d	3.42:1 (G92) 3.91:1 (Std.) d	N.A.	N.A.	N.A.
	320-HP Rocket 455 V-8 H.C. (L33, Cutlass S, Cutlass)	N.A.	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90) ja	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	310-HP Rocket 350 V-8 H.C. (L74) (W45, Cutlass S, F-85)	N.A.	N.A.	2.56:1 (G96) 2.78:1 (Std.) 3.08:1 (G90) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) f	3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) de	3.42:1 (Std.) 3.91:1 (G88) de	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) de	N.A.	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) d	N.A.
	250-HP Rocket 350 V-8 Reg.-Fuel (Std.)	N.A.	N.A.	2.56:1 (Std.) 2.78:1 (G95) 3.08:1 (G90) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) d	3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) de	3.42:1 (Std.) 3.91:1 (G88) de	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) de	N.A.	2.78:1 (G95) 3.08:1 (Std.) 3.23:1 (G91) 3.42:1 (G92) 3.91:1 (G88) d	N.A.
	155-HP Action-Line 6 Regular-Fuel (Std.)	N.A.	N.A.	2.78:1 (Std.) 3.08:1 (G90) 3.23:1 (G91) f	N.A.	N.A.	N.A.	N.A.	N.A.	2.78:1 (Std.) 3.08:1 (G90) 3.23:1 (G91) f

\*—In addition to factory-installed axles listed below, dealer-installed axles with 4.33:1, 4.66:1, and 5.00:1 ratios are available for V-8 power teams (except L33 with M40) in Intermediate Sedans, Coupes, and Convertibles except with C60 or Y72. These ratios are not recommended for city or highway use. a—For trailer towing. b—Std. with C60. c—Std. with C60 or Y72. d—Extra-cost performance axle with heavy-duty shafts and G90, furnished with heavy-duty radiator. N.A. with C60 or Y72; N10 required with 310-hp Rocket 350 V-8 H.C. Engine. e—For Coupe and Convertible only. f—N.A. in Station Wagons. g—Std. in Station Wagons. h—N.A. with W45. i—Std. with W45.

# SPECIFICATIONS

ENGINES	400-HP Rocket 455 V-8 H.C.	390-HP Rocket 455 V-8 N.C.	375-HP Rocket 455 V-8 H.C.	370-HP Force-Air Rocket 455 V-8 H.C.	365-HP 4-4-2 Rocket 455 V-8 H.C.	365-HP Rocket 455 V-8 H.C.	320-HP Rocket 455 V-8 H.C.	310-HP Rocket 455 V-8 (Reg. Fuel)	325-HP Force-Air Rocket 350 V-8 H.C.	310-HP Rocket 350 V-8 H.C.	250-HP Rocket 350 V-8 (Reg.-Fuel)	155-HP Action-Line 6 (Reg.-Fuel)	
Max. horsepower at rpm	400 at 4800	390 at 5000	375 at 4600	370 at 5200	365 at 5000	365 at 4600	320 at 4200	310 at 4200	325 at 5400	310 at 4800	250 at 4400	155 at 4200	
Max. torque at rpm (lb.-ft.)	500 at 3200	500 at 3200	510 at 3000	500 at 3600	500 at 3200	510 at 3000	500 at 2400	490 at 2400	360 at 3600	390 at 3200	355 at 2600	240 at 2000	
Displacement (cu. in.)	455												
Bore and stroke (in.)	4.125 x 4.250												
Compression ratio	10.25-to-1			10.50-to-1			10.25-to-1		9.00-to-1	10.50-to-1	10.25-to-1	9.00-to-1	8.50-to-1
Carburetor barrels (no.)	4				2		1						
Exhaust system (type)	Dual Outlets	Dual	Single	Dual	Single**	Dual	Single	Dual	Single***	Single	Single	Single	
Fuel recommended (type)	Premium						Regular		Premium		Regular		
Fuel-tank capacity (gal.)	24.0	25.0	24.0	20.0		25.0 (23.0 Wagon)	20.0 (23.0 Wagon)	25.0	20.0 (23.0 Wagon, 25.0 Delta 88)			20.0 (23.0 Wagon)	
Crankcase oil capacity (qt.)	5*	4*	5*	4*		4*							
Cooling system capacity (qt.)	18.0	17.5	18.0	16.5		17.5		15.2 (17.5 Delta 88)					12.2
<b>Availability</b>													
Tornado	W34	--	Std.	--	--	--	--	--	--	--	--	--	
Ninety-Eight	--	--	--	--	--	Std.	--	--	--	--	--	--	
Delta 88 Royale	--	W33	--	--	--	L31	--	Std.	--	--	--	--	
Delta 88 Custom	--	W33	--	--	--	L31	--	Std.	--	--	--	--	
Delta 88	--	W33	--	--	--	L31	--	L30	--	--	Std.	--	
Vista-Cruiser	--	--	--	--	--	L31	--	--	--	L74	Std.	--	
4-4-2	--	--	--	W30	Std.	--	--	--	--	--	--	--	
Cutlass Supreme	--	--	--	--	W32	--	L33	--	--	Std.	L65	--	
Cutlass S	--	--	--	--	--	--	L33	--	W31	L74	Std. V-8	Std. L-6	
Cutlass Sedans and Wagons	--	--	--	--	--	--	L33	--	--	L74	Std. V-8	Std. L-6	
F-85	--	--	--	--	--	--	--	--	W31	L74	Std. V-8	Std. L-6	

\*1 qt. more with filter. \*\*Dual in Vista-Cruiser. \*\*\*Dual with 4-barrel carburetor and 1.42:1 or 1.91:1 ratio rear axle.

TIRES	Tornado Ninety- Eight	Delta 88 Royale, Delta 88 Custom, Delta 88	Vista- Cruiser	4-4-2	Cutlass Supreme		Cutlass S, F-85		Cutlass		
					Sedans	Coupe, Convertible	V-8 Models	L-6 Models	V-8 Sedan	L-6 Sedan	Station Wagon
Blackwall Bias-Belted (Std. except 4-4-2)	178 x 15"	H78 x 15"	H78 x 14"	—	G78 x 14"	G78 x 14"	G78 x 14"	F78 x 14"	G78 x 14"	F78 x 14"	G78 x 14"***
White-Stripe Bias- Belted (P26)*	178 x 15"	H78 x 15"	H78 x 14"	—	G78 x 14"	G78 x 14"	G78 x 14"	F78 x 14"	G78 x 14"	F78 x 14"	G78 x 14"***
White-Stripe Wide-Oval Bias-Belted (PX8, Std. for 4-4-2)	—	—	—	G70 x 14" (Std.)	—	G70 x 14"	G70 x 14"	G70 x 14"	—	—	—
Blackwall Wide-Oval Bias-Belted with Raised White Letters (PK5)	—	—	—	G70 x 14" (Included in W30)	*	G70 x 14"	G70 x 14" (Included in W31)	G70 x 14"	*	*	—

\*Triple-White-Stripe for Tornado and Ninety-Eight; Dual-White-Stripe for Others. \*\*H78 x 14" with Drop-or-Swing Tailgate (G28).

DIMENSIONS	Tornado	Ninety- Eight	Delta 88 Royale	Delta 88 Custom	Delta 88	Vista- Cruiser	4-4-2	Cutlass S	F-85	Cutlass Supreme		Cutlass	
										Coupe	Sedans	Sedans	Station Wagon
<b>Overall Size</b>													
Length (in.)	214.3	225.2		219.1		218.2			203.2			207.2	213.2
Width (in.)	78.8	80.0		79.9		77.2			76.2			76.8	77.2
Loaded height (in.)*	52.8	54.8		54.7		58.6			52.8			53.5	55.2
Shipping weight (lb.)*	4331	4257	4002	3999	3900	4064	3713	3452	3401	3471	3558	3468	3837
<b>Chassis</b>													
Wheelbase (in.)	119.0	127.0		124.0		121.0			112.0				116.0
Tread, front/rear (in.)	63.5/63.0	62.5/63.0		62.5/63.0		59.0/59.0			59.0/59.0				59.0/59.0
Brake diameter (in.)	**	**		**		9.5			9.5				9.5
Brake lining area (sq. in.)	**	**		**		175.4			157.8				157.8
Turning diameter (ft.)	42.9	46.9		45.4		42.8			40.0			41.2	41.3
<b>Interior Room</b>													
Headroom, front/rear (in.)*	37.7/37.2	38.6/38.0		39.0/37.8		38.4/40.3		38.2/36.4	37.9/36.3	38.2/36.3		38.8/37.4	38.9/38.3
Legroom, front/rear (in.)*	41.3/35.5	41.7/37.1		41.6/35.1		42.8/38.0		41.5/34.1	41.4/34.1	41.5/34.1		42.8/35.0	42.8/35.0
Shoulderroom, front/rear (in.)*	58.8/59.6	62.3/60.9		62.4/61.0		58.3/57.5		58.3/57.1	58.3/57.1	58.3/57.0		58.3/57.4	58.3/57.4
Hiproom, front/rear (in.)*	62.3/55.6	63.6/55.2		63.7/55.5		59.4/59.2		59.7/58.3	59.7/58.3	59.7/58.5		59.5/59.3	59.8/59.5
Trunk capacity (cu. ft.)	14.6	20.5		19.5		—		17.0	17.0	17.0		17.0	—
Above-floor cargo capacity (cu. ft.)	—	—		—		100.5		—	—	—		—	86.1
Total cargo capacity (cu. ft.)	—	—		—		108.5		—	—	—		—	96.1

\*V-8 hardtop coupes, except: 2-Seat Vista-Cruiser, Cutlass Supreme Town Sedan, Cutlass V-8 Town Sedan and Station Wagon, F-85 V-8 Sports Coupe. \*\*Front disc brakes with rear drum brakes.

## STANDARD EQUIPMENT AND FEATURES OF ALL MODELS

### Exterior

Body by Fisher, Unisteel . . . with full corrosion protection, sealing, insulation  
Bumpers, Tri-Nickel-Plated  
Doors, Dual-Paneled . . . 2-stage front checks  
Door Latch Pushbuttons, Outside and Inside . . . for keyless door locking  
Fender Inner Panels, Thermoplastic Front-Finish, Magic-Mirror Acrylic Lacquer  
Hood, Counterbalanced Dual-Paneled  
Hood Insulation, Fiberglass (except F-85 and models with fiberglass hood)  
Lamps, Four Sealed-Beam Head-Moldings, Chrome Rear-Window (except Convertibles) and Windshield  
Radio Antenna, Windshield  
Windows, Curved-Glass . . . all around  
Windshield Wipers, Recessed-Park

### Interior

Armrests, Comfortable  
Ashtray and Fusible-Link Cigar Lighter  
Floor Carpeting (except F-85)  
Glove Compartment, Key-Locked  
Heater and Defroster, Air-Mix

Lamp Switches, Front-Door Interior-Locking System, 2-Key Car  
Seats, Comfort-Contoured

### Power Train

Axle, Hypoid Rear (except Toronado)  
Battery, 12-Volt Delco-Eye Energizer  
Carburetor, Factory-Tailored  
Delcotron, Factory-Sealed  
Drive Shaft, One-Piece (except Toronado) . . . two needle-bearing universal joints  
Engine, Overhead-Valve V-8 or L-6  
Engine Combustion Control System . . . with transmission-controlled spark advance  
Engine-Cooling System, Pressurized-Liquid . . . with cross-flow radiator  
Engine Lubrication, Full-Pressure . . . full-flow oil filter, positive crankcase ventilation  
Engine Structure, Precision-Cast . . . with lightweight block, heads, manifolds  
Exhaust System, Aluminized  
Fuel Supply System, Positive . . . with dual filters and air-cooled fuel line  
Ignition System, All-Weather  
Starter, Positive-Shift High-Torque

Transmission, Fully Synchronized 3-Speed Manual (Turbo Hydra-matic 400 in Ninety-Eight and Toronado models)  
Valve Trains, Individual . . . with hydraulic valve lifters and with Positive Valve Rotators in V-8s

### Chassis

Body Mountings, Vibra-Tuned Rubber  
Brake, Foot-Operated Parking  
Brakes, Self-Adjusting (Power Front Disc Brakes in 88, Ninety-Eight, and Toronado models, and in Station Wagons)  
Frame, Torque-Beam . . . with full side rails and rugged torque boxes  
Shock Absorbers, Direct-Acting  
Stabilizer Bar, Front  
Steering Gear, Recirculating Ball-Nut (Vari-Ratio Power Steering in 88, Ninety-Eight, and Toronado models)  
Steering Linkage, Forged . . . with low-friction pivots, flexible shaft coupling  
Suspension, Pivot-Poise Ball-Joint Front and Twin-Triangle Rear (except Toronado)  
Suspension Insulation, Full-Rubber  
Tires, Low-Profile Tubeless . . . precision-balanced with wheels

## STANDARD SAFETY FEATURES OF ALL MODELS

### Occupant Protection

Armrests, Safety-Styled  
Console Door Latch Impact Security (in models with Sports Console)  
Door Hinges, Stamped-Steel (at least one per door)  
Door Latches and Hinges, Safety  
Door Locks, Passenger-Guard . . . with forward-mounted lock buttons  
Fuel-Tank Impact Security  
Glove Compartment Door Latch, Rotary  
Instrument Panel, Energy-Absorbing Padded  
Lamps, Soft Low-Profile Interior  
Seat Backrest Latches, Folding-  
Seat Backrest Tops, Energy-Absorbing Padded . . . for front and second seats  
Seat Head Restraints, Dual Front-  
Seat Lap Belts with Pushbutton Buckles . . . for all passenger positions; with retractors for driver and right front passenger  
Seat Retention, High-Strength Front-Seat Anchorages and Construction and Rear-Seat Shoulder Belt Anchorages for Rear-Seat outboard occupants  
Seat Shoulder Belts with Pushbutton Buckles . . . for driver and right front passenger (except Convertibles)

Side-Guard Beams (except Toronado)  
Steering Column, Energy-Absorbing  
Steering Wheel, Safety  
Window Control Knobs and Coat Hooks, Soft Low-Profile  
Window Regulator Handles, Smooth-Contoured Door and  
Windshield, Thick Laminate  
Windshield Header, Contoured (except Convertibles)  
Windshield Pillar Moldings, Padded or Yielding  
Windshield Sun Visors, Padded

### Accident Prevention

Brakes, Self-Adjusting  
Brake Lines, Corrosion-Resistant  
Brake System, Dual-Master-Cylinder  
Brake System Warning Light  
Flasher, 4-Way Hazard Warning  
Hood Latches, Dual-Action Safety  
Instrument Panel Top, Low-Glare  
Lamps, Backup  
Lamp Aiming Access Provision, Head-Lamps and Reflectors, Side-Marker  
Lamps that Illuminate with Headlamps, Parking

Mirror, Oval Outside Rearview  
Mirror, Wide-View Inside Day/Night Rearview . . . vinyl-edged, with shatter-resistant glass and deflecting support  
Starter Safety Switch  
Steering Wheel, Low-Glare  
Tires, Bias-Belted . . . with tread wear indicators  
Transmission, Uniform-Shift Turbo Hydraulic . . . standard in Ninety-Eight and Toronado models  
Turn-Signal Control Lane-Change Feature  
Wheels, Welded Steel . . . with safety rims and no winged projections  
Windshield Defroster, Washers, and Dual-Speed Wipers . . . with low-glare wiper arms and blades  
Windshield Inside Moldings, Low-Glare

### Theft Prevention

Car Identification, Visible  
Steering Column, Anti-Theft  
Ignition Key Warning Buzzer, Anti-Theft  
Key Combinations, Multiple Car-  
Speedometer Odometer, Tamper-Resistant . . . with telltale feature

# MODEL PRICES . . . Delta 88, Delta 88 Custom, Delta 88 Royale, Ninety-Eight, Toronado

MODEL	MODEL CODE	MSRP <sup>a</sup>	DEST. CHG. <sup>b</sup>	TOTAL	LOCAL PRICE	MODEL	MODEL CODE	MSRP <sup>a</sup>	DEST. CHG. <sup>b</sup>	TOTAL	LOCAL PRICE
<b>DELTA 88</b>						<b>DELTA 88 ROYALE</b>					
Town Sedan	5469	\$3534				Holiday Coupe	6647	\$4159			
Holiday Coupe	5437	3590				<b>NINETY-EIGHT</b>					
Holiday Sedan	5439	3666				Town Sedan	8469	4451			
Convertible	5467	3903				Holiday Coupe	8457	4656			
						Holiday Sedan	8439	4582			
<b>DELTA 88 CUSTOM</b>						Convertible	8467	4914			
Town Sedan	6469	3755				Luxury Sedan	8669	4793			
Holiday Coupe	6437	3848				Luxury Sedan Hardtop	8639	4888			
Holiday Sedan	6439	3924				<b>TORONADO</b>					
						Toronado	9487	5023			
						Toronado Custom	9687	5216			

a. Manufacturer's Suggested Retail Price. Includes reimbursement for Federal Excise Tax and Suggested Dealer New Vehicle Preparation Charge.

b. Destination Charge. \$ \_\_\_\_\_ higher on models equipped with an Air Conditioner (C60 or C61).



Lift  
Page

## **MODEL PRICES...**

**Delta 88**

**Delta 88 Custom**

**Delta 88 Royale**

**Ninety-Eight**

**Toronado**

## Principal Revisions Since September 1969 Issue

Revision of Cutlass Station Wagon and Vista-Cruiser model prices to include JL2, Power Front Disc Brakes, as standard equipment, as of January 1, 1970.

Revision of Delta 88, Delta 88 Custom, and Delta 88 Royale model prices to include JL2, Power Front Disc Brakes, and N47, Vari-Ratio Power Steering, as standard equipment as of January 1, 1970.

Addition of Model 9687, Toronado Custom, as a specific model instead of as Model 9487 with Y67, Custom Interior, as of January 1, 1970.

Revision in names of all tires with replacement of "bias-ply glass-belted" by "bias-belted."

Inclusion of Recessed-Park Windshield Wipers as standard equipment for F-85 Sports Coupe, making this feature standard on all models.

Inclusion of Power Top as standard equipment for Cutlass Supreme Convertible. Item was omitted.

Inclusion of Open-Door Warning Deflectors as stan-

dard equipment in Ninety-Eight Luxury Sedans instead of Open-Door Courtesy and Warning Lamps. Availability of Green and Saddle colors for C08, Vinyl Rooftop Covering, revised.

Information amplified for D35, Sports-Styled Rear-view Mirrors, with addition of note: "Color-matched to car color."

Availability of JL2, Power Front Disc Brakes, changed to standard equipment for Cutlass Station Wagon, Vista-Cruiser, Delta 88, Delta 88 Custom, and Delta 88 Royale models, as of January 1, 1970.

Addition of JL9, True-Track Braking, for Toronado, as of January 1, 1970.

Availability of K30, Cruise Control, extended to F-85 and Cutlass S with W31.

Availability of N47, Vari-Ratio Power Steering, changed to standard equipment for Delta 88, Delta 88 Custom, and Delta 88 Royale models, as of January 1, 1970.

Availability of T81, Night-Watch Headlamp Off-Delay Control, restricted on Toronados to use with C60 or C61, Air Conditioner.

Availability of W27, Aluminum Rear-Axle Carrier and Cover, restricted to use with G80, Anti-Spin Rear Axle, when furnished with W45, Rallye 350 Appearance Package.

Revision of W34, Toronado GT Package, for Toronado to include "Toronado GT" hood emblem.

Addition of W45, Rallye 350 Appearance Package, for F-85 and Cutlass S Coupes.

Addition of black all-vinyl interior trim for Ninety-Eight models.

Revision in some axle ratios for F-85, Cutlass S and Vista-Cruiser models.

Miscellaneous modification and amplification of product information.

Addition of charts for Dealer-Installed Equipment and Interior Trims.

## Salesmen's Prices/Equipment Colors and Trims/Specifications

Litho in U.S.A. January, 1970



Oldsmobile reserves the right to make changes at any time, without notice, in prices, colors, materials, trim, equipment, specifications and models, and also to discontinue models.

Oldsmobile Division, General Motors Corporation,  
Lansing, Michigan.



**1970**

CREDIT - OLDSMOBILE  
HISTORY CENTER

000024970

820 TOWNSEND ST.  
LANSING, MI 48921

**OLDSMOBILE**  
**Inspector's**  
**Guide**

**F-85 - 88 - 98**  
**SERIES**



---

This information does not supersede  
any Engineering Releases. It compiles  
releases prior to AUGUST 1, 1969.

# INDEX

Air Cleaners and Label Codes	39
Axle Codes	13
Battery Codes	40
Body Style Codes	3
Delcotrons	38
Engine Identification Codes	20, 21
Engine Spec. Labels	42, 43
Frames	4
IBM Accessory Codes	22, 23
Instrument Cluster Codes	37
Master Cylinder and Boosters	17
Optional Equipment - F-85	24-31
Optional Equipment - 88-98	32-35
Propeller Shafts	15
Radiator Codes	41
Shock Absorbers	12
Speedo Gear Codes	16
Springs - Front	8, 9
Springs - Rear	10, 11
Stabilizer Shafts	6, 7
Steering Knuckle Shop Assembly	5
Tire Codes	18, 19
Tire Pressure Labels	36
Transmissions	14
Wheel Discs	2

# 1970 WHEEL DISCS

P01 14"



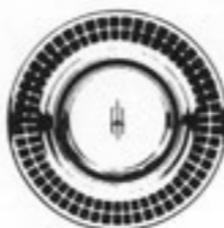
Chrome Wheel Discs

P02 14"



Deluxe Wheel Discs

P03 15"



Deluxe Wheel Discs

N95 14"



Simulated-Wire Wheels

P05 14"



Super Stock Wheels I

N66 14"

P37 15"



Super Stock Wheels II

P06 14"



Chrome Wheel Trim Rings

P06 15"



Chrome Wheel Trim Rings  
(Toronado)

## 1970 BODY STYLE CODES

Series	Oldsmobile Series Code	Description	Body Style	Broad. Code
F-85 Standard L-6	33100	Club Coupe	77	3177
F-85 Standard V-8	33200	Club Coupe	77	3277
Cutlass L-6 Engine	33500	Station Wagon - 2 Seat	35	3535
		Four Door Hardtop Sedan	39	3539
		Four Door Sedan	69	3569
		Club Coupe	77	3577
		Hardtop Coupe	87	3587
Cutlass V-8 Engine	33600	Station Wagon - 2 Seat	35	3635
		Four Door Hardtop Sedan	39	3639
		Four Door Sedan	69	3669
		Club Coupe	77	3677
		Hardtop Coupe	87	3687
Cutlass Supreme	34200	Four Door Hardtop Sedan	39	4239
		Hardtop Coupe	57	4257
		Convertible	67	4267
F-85 442	34400	Convertible	67	4467
		Club Coupe	77	4477
		Hardtop Coupe	87	4487
Vista Cruiser	34800	Station Wagon - 2 Seat Extended	55	4855
		Station Wagon - 3 Seat Extended	65	4865
Delta 88	35400	Hardtop Coupe	37	5437
		Holiday Sedan	39	5439
		Convertible	67	5467
		Town Sedan	69	5469
Delta 88 Custom	36400	Hardtop Coupe	37	6437
		Holiday Sedan	39	6439
		Town Sedan	69	6469
Delta 88 Royale	36600	Hardtop Coupe	47	6647
Ninety Eight	38400	Holiday Sport Sedan	39	8439
		Hardtop Coupe	57	8457
		Convertible	67	8467
		Town Sedan	69	8469
Ninety Eight Luxury	38600	Luxury Sedan Hardtop	39	8639
		Luxury Sedan Pillar	69	8669
Short Sill	39800	Ambulance	40	9840
		Hearse	90	9890

# 1970 FRAMES

Series	Body Style	Trans.	Engine	Broad. Code	Frame Code (Part No.)	
F-85	35	All	All	XW	XW (3960737)	
	39, 69	All	All	XT	XT (3960731)	
	4800	All	All	GU	GU (406258)	
	67	All	All	XV	XV (3960735)	
	57, 77, 87	All	All	XU	XU (3960733)	
5400	All Exc. 67 or F35	SYN	Blue 455	S1	GA (406903) *	
		AUTO	Blue 455	GA	GA (406903)	
		SYN	Gold 350	S3	GC (406907) *	
		AUTO	Gold 350	GC	GC (406907)	
	With 67 or F35	SYN	Blue 455	S2	GB (406905) *	
		AUT	Blue 455	GB	GB (406905)	
		SYN	Gold 350	S4	GD (406908) *	
		AUT	Gold 350	GD	GD (406908)	
		SYN	Blue 455	S2	GB (406905) *	
		AUT	Blue 455	GB	GB (406905)	
		SYN	Gold 350	S4	GD (406908) *	
		AUT	Gold 350	GD	GD (406908)	
	6400 6600	All Exc. F35	SYN	All	S1	GA (406903) *
			AUT	All	GA	GA (406903)
With F35		SYN	All	S2	GB (406905) *	
		AUT	All	GB	GB (406905)	
8400 8600	All Exc. F35 & 8467	All	All	GV	GV (406824)	
	Exc. 8467 With F35	All	All	GE	GE (406913)	
	With 8467	All	All	GE	GE (406913)	
Short Sill	All	All	All	GV	GV (406824)	

\* Clutch Bracket Welded on Frame.

# 1970 STEERING KNUCKLE SHOP ASM. CODES

Series	Group		Steering Type	Code
F-85 Exc. 4800	With W-30 W-31	Std.	All	OP
		JL7	All	OB
	Std.		All	OB
	JL2		All	OM
4800	Std.		All	OD
	JL2		All	OM
5400 6400 6600	Std.		Manual	OF
	N47		Power	OA
	JL2		Power	OE
	J55	Manual	OH	
		Power	OG	
8400 8600	J55		Power	OG
	Std.		Power	OE
9860	J55		Power	OG

Ref. 401995 (3:94 & 95)

## 1970 FRONT STABILIZER SHAFTS

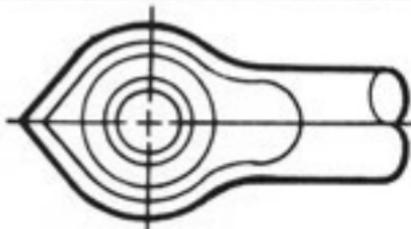
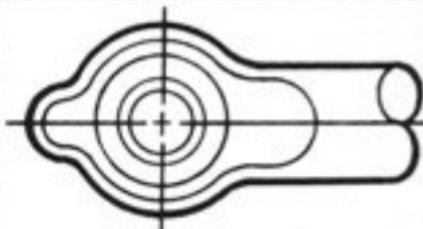
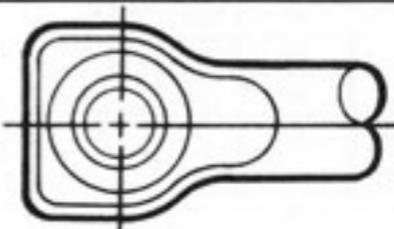
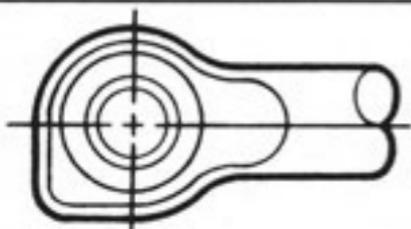
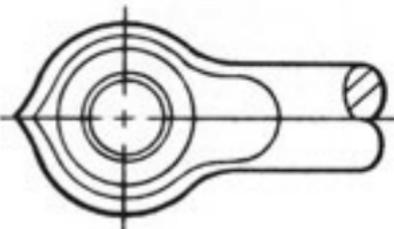
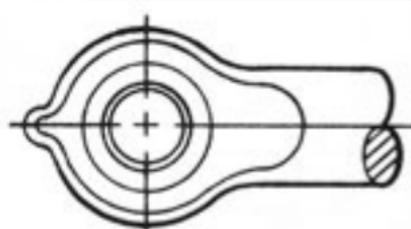
Series - Models	Usage	Broad. Code	Part No.
3100 - All 3500 - All	Std.	D	398498
	F41	C	398499
3200, 3600, 4200 - Exc. 4267	Std.	C	398499
	F41	E	399924
	FE2	E	399924
4400, 4267	All	E	399924
4800	All	F	401194
5400, 6400, 6600 8400, 8600, 9860	Std.	A	406739
	B07, F41	B	388254

Ref. PIM 3:100 & 102

## 1970 REAR STABILIZER SHAFTS

Series	Usage	Broad. Code	Part No.
3200, 3600, 4200 57, 67, 77, 87	FE2	A	394926
4400	All	A	394926
5400, 6400, 6600	B07	B	396620

Ref. PIM 4:104

**1970 FRONT STABILIZER IDENTIFICATION****F-85****(D) 398498****(E) 399924****(C) 398499****(F) 401194****88-98****(B) 388254****(A) 406739**

Ref: PIM 3:100 &amp; 102

## 1970 F-85 FRONT SPRINGS

Series	Model	3C (Std.)	C60 (A/C)	F41 (Heavy Duty)		L31 or L33 (455 Eng.)		35 FE2 (442 Suspension)	
			Exc. FE2, F41, L31	Exc. C60 (Exc. A/C)	C60 (A/C)	Exc. C60 (Exc. A/C)	C60 (A/C)	Exc. C60 (Exc. A/C)	C60 (A/C)
33100 (L6)	77	LD	LP	R4	R5	NA	NA	NA	NA
33200 (V8)	77	LT	SB	SC	SF	NA	NA	RX	RD
33500 (L6)	35	R, H. - LD	R, H. - LP	R, H. - R4	R, H. - R9	NA	NA	NA	NA
		L, H. - LG	L, H. - LV	L, H. - SC	L, H. - SC	NA	NA	NA	NA
	39	LE	LT	R4	R5	NA	NA	NA	NA
	69	LE	LS	R4	R5	NA	NA	NA	NA
	77	LD	LP	R4	R5	NA	NA	NA	NA
	87	LD	LS	R4	R5	NA	NA	NA	NA
33600 (V8)	35	R, H. - LS	R, H. - LY	R, H. - R5	R, H. - SD	S9	SA	NA	NA
		L, H. - LX	L, H. - SG	L, H. - SF	L, H. - SK	SD	SF	NA	NA
	39	LX	SE	SD	SN	SC	SN	NA	NA
	69	LV	SB	SC	SN	SA	SN	NA	NA
	77	LT	SB	SC	SF	SA	SD	RX	RD
	87	LV	SB	SC	SF	SA	SD	RX	RD
34200 (V8)	39	LX	SE	SD	SN	SC	SF	NA	NA
	57	LV	SB	SC	SN	SA	SF	S6	RK
	67	LV	SE	SD	SN	SC	SF	S6	RK
34400 (V8)	67	RD	RK	NA	NA	NA	NA	NA	NA
	77	S6	RI	NA	NA	NA	NA	NA	NA
	87	S6	RK	NA	NA	NA	NA	NA	NA
34800 (V8)	55	R, H. - SC	R, H. - SN	R, H. - SF	R, H. - SK	R, H. - SD	R, H. - SK	NA	NA
		L, H. - SK	L, H. - S7	L, H. - S7	L, H. - EA	L, H. - R7	L, H. - S7	NA	NA
	65	R, H. - SA	R, H. - SF	R, H. - SD	R, H. - SK	R, H. - SC	R, H. - SN	NA	NA
		L, H. - SN	L, H. - R7	L, H. - R7	L, H. - EA	L, H. - SK	L, H. - S7	NA	NA

Standard Usage Except 35, 55 & 65 Models:

Use High Range Spring On L, H. Side of Car and Low Range on R, H. Side.

Temporary Usage Except 35, 55 & 65 Models:

When Both Spring Ranges Are Not Available Use Same Range Spring On Both Sides Of Car.

Usage For 35, 55 & 65 Models:

Use Same Range Spring On Both Sides Of Car.

Temporary Usage For 35, 55, 65 Models:

When Same Range Springs For Both Sides Of Car Are Not Available,

(Preferred) Use High Range On Left Side Of Car and Low Range On Right Side.

(Optional) Use Low Range On Left Side Of Car and High Range On Right Side.

Tag Identification:

High Load Range - Plain Identification.

Low Load Range - Black Circle Around Code Letter.

Ref. P1M 3-90

## 1970 88-98 FRONT SPRINGS

Chassis Code		3C (Std. Car)	C60 or C61 (A/C)	F41 (Heavy Duty)		B07 (Police)
Series	Model		Exc. B07, F41	Exc. C60 or C61	C60 or C61	Incl. C60 or C61
35400 (Std. Car)	37	VA	VR	VR	VR	VV
	39	VA	VR	VR	VQ	VV
	67	VA	VR	VR	VQ	VV
	69	VA	VR	VR	VQ	VV
35400 L30, L31 W33 & L91 (455 Eng.)*	37	* VA	VR	VR	VQ	VV
	39	* VI	VR	VR	VQ	VV
	67	* VI	VR	VR	VQ	VV
	69	* VA	VR	VR	VQ	VV
36400	37	VA	VR	VR	VQ	VV
	39	VI	VR	VR	VM	VV
	69	VI	VR	VR	VQ	VV
36600	47	VI	VR	VR	VQ	VV
38400	39	VH	VQ	VQ	VM	NA
	57	VI	VQ	VR	VM	NA
	67	VH	VQ	VR	VM	NA
	69	VI	VQ	VR	VM	NA
38600	39	VH	VM	VQ	VM	NA
	69	VH	VQ	VQ	VM	NA

Springs Should Be Used Either Low Range On Both Sides Of Car Or High Range On Both Sides Of Car Except 8600 Model - Must Have High Range On Both Sides When Available.

\* Not Standard Car Spring (Released Under 455 Engine Option).

High Load Range - Part Number and Code Letters.

Low Load Range - Circle Around Code Letters.

Ref. PIM 3:90

## 1970 F-85 REAR SPRINGS

Series	Model	4B (Std. Car)	M40 (3-Speed A. M. T.)	G51 (Heavy Duty) M40 Only	F41 (Heavy Duty)	35 FE2 (442 Susp.)	
						Exc. M38, M40	M38, M40
33100 (L6)	77	NN	Same As Standard Car	NA	HF	NA	NA
33200 (V8)	77	NN		NA	HF	HY	NK
33500 (L6)	35	PO		NA	HQ	NA	NA
	39	NB		NA	N5	NA	NA
	69	NO		NA	N5	NA	NA
	77	NN		NA	HF	NA	NA
	87	NN		NA	HF	NA	NA
33600 (V8)	35	PO		NA	HQ	NA	NA
	39	NB		NA	N5	NA	NA
	69	NO		NA	N5	NA	NA
	77	NN		NA	HF	HY	NK
	87	NN		NA	HF	HY	NK
34200 (V8)	39	NB		NA	N5	NA	NA
	57	PC		NA	HF	HY	NK
	67	PC		NA	HF	HY	NK
34400 (V8)	67	HY	9788448 NK	HY	NA	NA	NA
	77	HY	9788448 NK	HY	NA	NA	NA
	87	HY	9788448 NK	HY	NA	NA	NA
34800 (V8)	55	P7	Same As Standard Car	NA	HQ	NA	NA
	65	P7		NA	H5	NA	NA

Use High Range Spring On L. H. Side Of Car And Low Range On R. H. Side.

Tape Identification:

High Load Range - Plain Identification.

Low Load Range - Black Circle Around Code Letter.

Ref. PIM 4:90

# 1970 88-98 REAR SPRINGS

Chassis Code		4B (Std. Car)	F41 (Heavy Duty)	B07 (Police)
Series	Model			
35400	37	I3	I6	II
	39	I4	I6	II
	67	I4	I6	II
	69	I4	I6	II
36400	37	I3	I6	II
	39	I4	I6	II
	69	I4	I6	II
36600	47	I3	I6	II
38400	39	IU	I7	NA
	57	I5	I7	NA
	67	I5	I7	NA
	69	I5	I7	NA
38600	39	IU	I8	NA
	69	IU	I8	NA

Springs Should Be Used Either Low Range On Both Sides Of Car, Or High Range On Both Sides Of Car Except 8600 Model Which Must Have High Range On Both Sides When Available.

High Load Range - Part Number and Code Letters.

Low Load Range - Circle Around Code Letters.

Ref. PIM 4:90

# 1970 SHOCK ABSORBERS

## F-85 Front

Series	Std.	FG2	F41	FE2
F-85 Exc. 4400, 4800	CM	DD	DD	RZ
4400	RZ	-	-	-
4800	CP	DD	DD	-

## F-85 Rear

Series or Models	Std.	FG2	G66 & M40 on 4400	F41	FE2
All Exc. Sta. Wag. & 4400	CR	DE	ZB	DE	WE
3535, 3635	SB	DE	ZB	DE	-
4400	WE	-	ZB	-	-
4800	CV	DF	ZD	DF	-

## 88 - 98 Front

Series	Std.	B07	FG2	F41
5400, 6400 & 6600	CA	DB	CH	CH
8400, 8600	CF	-	CH	CH

## 88 - 98 Rear

Series	Std.	B07	FG2	G66	F41
5400, 6400 & 6600	CB	DC	CJ	WF	CJ
8400, 8600	CG	-	CJ	WF	CJ

Ref. PIM 0:34

# 1970 REAR AXLE CODES

F-85

Series	Axle Ratio ↓	Diff. Type →	Axle Codes		
			Std.	G80	W27
F-85 Exc. 4800	2.56		R2	R3	-
	2.78		SA	SB	-
	3.08		SC	SD	-
	3.23		SE	SF	SV
	3.42		-	TM	SX
	3.91		-	TO	SZ
3535, 3635 Exc. JL2	2.78		TV	TU	-
	3.08		TX	TW	-
4800	2.56		SI	ST	-
	2.78		TA	TB	-
	3.08		SM	SN	-
	3.23		SO	SP	-

88 - 98

Series	Eng.	Axle Ratio ↓	Diff. Type →	Axle Codes	
				Std.	G80
5400, 64, 66, 84, 86	350	2.78		RA	RB
		3.23		RE	RF
	455	2.56		QC	QD
		2.93		QI	QJ
9800	455	2.93		QU	QV

## 1970 TRANSMISSIONS

F-85

Transmission Type	Usage		Code
3 Speed Syn.	Standard (M15)	L-6	RR
		3200, 3600, 4200, 4800	RT
	Standard (M14)	4400	RM
	M14	3200, 3600, 4200	RM
4 Speed Syn.	M20	3200, 3600, 4200	WB
	M21	V-8 Exc. 4800	KA
Turbo (CBC)	M38	L-6	JE
	M38 Exc. L74, W31, L33	3200, 3600	JG
	M38 With L65	4200	JG
	M38 Exc. L65, L33	4200	JL
	M38 With L74	3200, 3600	JL
	M38 With W31	3200, 3600	JO
	M38 Exc. L31	4800	JM
Turbo Hydra-Matic	M40 Exc. W30	4400	OG
	M40 With W30	4400	OW
	M40 With L33	3600, 4200	OD
	M40 With L31	4800	OK

88 - 98

Transmission Type	Usage		Code
3 Speed Syn.	Standard (M15)	All 88's	DA
Turbo Hydra-Matic	M40 Exc. K30 & L30, L31, L91	5400	OF
	M40 With K30 Exc. L30, L31, L91	5400	OA
	M40 With L30, L91 Exc. K30	5400	OC
	M40 With L91, L30 & K30	5400	OR
	M40 Exc. L31 & K30	6400, 6600	OC
	M40 With K30 Exc. L31	6400, 6600	OR
	M40 With L31 Exc. K30	All 88's	OB
	M40 With L31 & K30	All 88's	OK
	M41 With W33	All 88's	OL
	Exc. K30	8400, 8600, 9860	OB
	With K30	8400, 8600, 9860	OK

Ref. PIM 7:98

## 1970 PROPELLER SHAFTS

Series	Trans.	Broad. Code	Part No. (Color Stripes)
3177, 3577, 87	All	A	7804819 (Black & Purple)
3277, 3677, 3687, 4257, 67, 4400	Syn.	A	7804819 (Black & Purple)
	M40	G	7807106 (Brown & Blue)
	M38	D	7806237 (Black & Pink)
3539, 69, 35	All	B	7804823 (Red & White)
3639, 69, 35 4239	Syn.	B	7804823 (Red & White)
	M40	I	7801163 (Brown & Green)
	M38	E	7806236 (Black & Brown)
4800	Syn.	C	7804850 (Red & Black)
	M40	H	7803983 (White & Blue)
	M38	F	7804856 (Black)
5400	Syn. Exc. L30, L31, L91	K	7804855 (2 Yellow)
	Syn. With L30, L31, L91	L	7806816 (Blue & Pink)
	M40 Exc. L30, L31 & L91	M	7803980 (2 Black)
	M41 or M40 With L30, L31, L91	P	5699785 (Red & Purple)
64-6600	Syn.	L	7806816 (Blue & Pink)
	M40 or M41	P	396376 or 5699785 (Red & Purple)
84-8600 9860	All	R	396377 or 7803842 (White & Brown)

Ref. PIM 4:100

# 1970 F-85 SPEEDO GEAR CODES

Trans. Type	Speedo Driven Gear		Broadcast Code	
	Part No.	Teeth	1st Digit Gear Code	2nd Digit Adapter Code
Auto.	1359270	36	A	A 540180 (.6190) <u>Orange</u>
	1359271	37	B	B 535613 (.6944) <u>Gray</u>
	1359272	38	C	C 535614 (.7333) <u>Red</u>
	1359273	39	D	D 535615 (.7692) <u>Yellow</u>
	1362048	40	E	E 535617 (.8653) <u>Blue</u>
	1362049	42	F	F 395430 (.8660) <u>Blue</u>
	1362195	41	G	G 540474 (1.1250) <u>No Color</u>
	1362196	43	H	H 395431 (1.1320) <u>No Color</u>
	9774413	34	J	I 9775739 (1.2020) <u>Black &amp; White</u>
	9775187	45	K	K 540183 (.7222) <u>Lt. Blue</u>
	9780387	35	L	M 406754 (.7330) <u>Red</u>
9780470	44	M	N 396338 (.7850) <u>Yellow</u>	
Syn.	3870351	17	O	
	3860341	18	1	
	3860342	19	2	
	3860343	20	3	
	3860344	21	4	
	3860345	22	5	
	3860346	23	6	
	3860347	24	7	
3860348	25	8		

# 1970 MASTER CYLINDERS AND BOOSTERS

## F-85

Group	Master Cylinder	Booster
Manual Drum	5468684	-
J50 (Power)	5465138	TN 5470733
JL2 (Disc)	5470664	SY 5470732
Man. Disc (W30 or W31)	5470662	-

## 88 - 98

Group	Master Cylinder	Booster
Manual 88	RR 5470584	-
88 JL2, J55	405256	DS 404993
98	5470663	FB 5470219

Ref. PIM 5:100

## 1970 F-85 TIRE IDENTIFICATION CODES

Series	EXPORT OPTION			DOMESTIC OR EXPORT						
	P16 & C28	P16 Exc. C28	P16 All	PX8	PK5	P26 & C28	P26 Exc. C28	P26 All	C28	Std.
33100	--	--	JTCH	L9DM	L9DS	--	--	K1DF	--	K1DB
33200	--	--	JTCH	L9DM	L9DS	--	--	K2DF	--	K2DB
33535	JUCH	JTCH	--	--	--	K3DF	K2DF	--	K3DB	K2DB
33539	--	--	JTCH	--	--	--	--	K1DF	--	K1DB
33577	--	--	JTCH	L9DM	L9DS	--	--	K1DF	--	K1DB
33587	--	--	JTCH	L9DM	L9DS	--	--	K1DF	--	K1DB
33635	JUCH	JTCH	--	--	--	K3DF	K2DF	--	K3DB	K2DB
33639	--	--	JTCH	--	--	--	--	K2DF	--	K2DB
33669	--	--	JTCH	--	--	--	--	K2DF	--	K2DB
33677	--	--	JTCH	L9DM	L9DS	--	--	K2DF	--	K2DB
33687	--	--	JTCH	L9DM	L9DS	--	--	K2DF	--	K2DB
34239	--	--	JTCH	--	--	--	--	K2DF	--	K2DB
34257	--	--	JTCH	L9DM	L9DS	--	--	K2DF	--	K2DB
34267	--	--	JTCH	L9DM	L9DS	--	--	K2DF	--	K2DB
34400	--	--	JTCH	--	L9DS	--	--	--	--	L9DM
34800	--	--	JUCH	--	--	--	--	K3DF	--	K3DB

Original Code	Changed To New Code	Tire Size	Wall Color
10	K1DB	F78 x 14	Black
15	K1DF	F78 x 14	White
20	K2DB	G78 x 14	Black
21	L9DS	G70 x 14	Black
23	JTCH	8.25 x 14	White
25	K2DF	G78 x 14	White
26	L9DM	G70 x 14	White
30	K3DB	H78 x 14	Black
33	JUCH	8.55 x 14	White
35	K3DF	H78 x 14	White

### Special Tires

- L9DS - G70 x 14 Wide Oval B/W With White Raised Letters (PK5)  
 JTCH - 8.25 x 14 Nylon Custom Power Cushion W/W (P16)  
 L9DM - G70 x 14 Wide Oval White Stripe (PX8)  
 JUCH - 8.55 x 14 Nylon Custom Power Cushion W/W (P16)

C28 Is Double Action Tailgate

P16 Is Export Option White Wall Nylon Tire

P26 Is White Wall Tire

PK5 Is Black Wall Super Sport Wide Oval Tire With White Raised Letters

PX8 Is Fiberglass Belted White Stripe

-- Indicates That The Conditions Shown Are Not Available,

& Indicates Together With Option Shown.

Ref. P1M 10:90

# 1970 88-98 TIRE IDENTIFICATION CODES

SERIES	DOMESTIC OR EXPORT			EXPORT
	QC6	P26	Std.	P16
35400 36400 36600	--	KADF	KADB	J3CH
38400 38600	--	KBDF	KBDB	J4CH
39400 39600	--	KBDF *	KBDB *	J4CH *
39860	H4CT	--	--	--

-- Indicates That Conditions Shown  
Are Not Available.

(\* ) Same Code As the Corresponding "98 "  
Series - Has Same Tire But Uses  
Different Valve Stem Assembly.

### Blackwall (Std.)

KADB - H78 x 15  
KBDB - J78 x 15

(\* ) KBDB - J78 x 15 (Toronado)

### Whitewall (P26)

KADF - H78 x 15  
KBDF - J78 x 15

(\* ) KBDF - J78 x 15 (Toronado)

### Special Tires

J3CH - 8.55 x 15 Nylon Custom Power Cushion W/W (P16)  
J4CH - 8.85 x 15 Nylon Custom Power Cushion W/W (P16)  
H4CT - 8.90 x 15 6-Ply 8-Ply Rating W/W (QC6) (S/S Cowl)

(\* ) J4CH - 8.85 x 15 Nylon Custom Power Cushion W/W (P16) (Toronado)

P16 Is Export Option Whitewall Nylon Tire

P26 Is Whitewall Tire Option

QC6 Is Whitewall 8.90 x 15 6-Ply 8-Ply  
Rating Tire (Short Sill Cowl Jobs)

Ref. PIM 10:90

# 1970 F-85 ENGINE IDENTIFICATION CODES

Engine Classification		Trans. Type	Code	Usage					
				3100 3500 (L6 Eng.)	3200	3600	4200	4400	4800
250 Cu. In.	L6	SYN.	VB	Exc. L90					
			VJ	Export					
		AT	VF	Exc. L90					
			VK	Export					
350 Cu. In.	2 BBL	SYN.	QI		Std.	Std.	L65		Std.
			QK		Export	Export			
		AT	QA		Std.	Std.	L65 & M38 Exc. C60		Std.
			QJ		C60, M38, L74, L90	C60, M38, L74, L90	C60, M38, L65		C60, M38, L74, L90
			QC		Export	Export			Export
			QD						
	4 BBL	SYN.	QV		L74	L74	Std.		L74
			QY				L90 Exc. M38		
			QX		W31	W31			
		AT	QN		L74 Exc. C60	L74 Exc. C60	M38 Exc. C60, L65, L90, L33		L74 Exc. C60
			QP		C60 & L74	C60 & L74	L65, L90, & L33		C60 & L74
			QO				Export		
455 Cu. In.	2 BBL	AT	TX			L33 & C60, Y72	L33 & C60, Y72		
			TY			L33, Exc. C60, Y72	L33, Exc. C60, Y72		
	4 BBL	SYN.	TU					Std.	
			TS					W30	
		AT	TW					M40 Exc. C60, W30, & Y72	
			TP						L31 & C60, Y72
			TT					M40 & W30	
			TV					M40 & C60, Y72	
			TQ						L31, Exc. C60, Y72

Ref. PIM 6-180

# 1970 88-98 ENGINE IDENTIFICATION CODE

Engine Classification		Trans. Type	Code	Usage		
				5400	6400 6600	8400 8600 9860
350 Cu. In.	2 BBL	SYN.	TL	Std.		
			QK	L90		
		AT	TD	M40 Exc. Air, Y72, L30, L31, L90, L91, W33		
			TC	M40, Air, & Y72 Exc. L30, L31, L90, L91, W33		
			QC	L90		
455 Cu. In.	2 BBL	SYN.	UJ	L30 Exc. M40	Std.	
			UK	L91	L91	
		AT	UC	M40 & L30 Exc. Air, Y72	M40 Exc. Air, L31, L91, Y72	
			UD	M40, Air, L30, Y72	M40, Air, & Y72 Exc. L31, L91	
			UE	M40 & L91	M40 & L91	
	4 BBL	AT	UN	L31 Exc. Air, Y72	L31 Exc. Air, Y72	Std. Exc. Air, L91, Y72
			UO	L31, Air, & Y72	L31, Air, & Y72	Air, Y72 Exc. L91
			UL	W33	W33	
			UP			L91

Ref. PIM 6-1:80

ACCESSORY CODES - 1970 MODELS  
PLANT AND EQUIP CODE

Code	Plant	Equip	Description
1			Open (For Zone Heating Operations)
2			Driver Correction
3			Driver Correction
4			Driver Correction
5			Driver Correction
6			Driver Correction
7			Driver Correction
8			Driver Correction
9			Driver Correction
10			Driver Correction
11			Driver Correction
12			Driver Correction
13			Driver Correction
14			Driver Correction
15			Driver Correction
16			Driver Correction
17			Driver Correction
18			Driver Correction
19			Driver Correction
20			Driver Correction
21			Driver Correction
22			Driver Correction
23			Driver Correction
24			Driver Correction
25			Driver Correction
26			Driver Correction
27			Driver Correction
28			Driver Correction
29			Driver Correction
30			Driver Correction
31			Driver Correction
32			Driver Correction
33			Driver Correction
34			Driver Correction
35			Driver Correction
36			Driver Correction
37			Driver Correction
38			Driver Correction
39			Driver Correction
40			Driver Correction
41			Driver Correction
42			Driver Correction
43			Driver Correction
44			Driver Correction
45			Driver Correction
46			Driver Correction
47			Driver Correction
48			Driver Correction
49			Driver Correction
50			Driver Correction
51			Driver Correction
52			Driver Correction
53			Driver Correction
54			Driver Correction
55			Driver Correction
56			Driver Correction
57			Driver Correction
58			Driver Correction
59			Driver Correction
60			Driver Correction
61			Driver Correction
62			Driver Correction
63			Driver Correction
64			Driver Correction
65			Driver Correction
66			Driver Correction
67			Driver Correction
68			Driver Correction
69			Driver Correction
70			Driver Correction
71			Driver Correction
72			Driver Correction
73			Driver Correction
74			Driver Correction
75			Driver Correction
76			Driver Correction
77			Driver Correction
78			Driver Correction
79			Driver Correction
80			Driver Correction
81			Driver Correction
82			Driver Correction
83			Driver Correction
84			Driver Correction
85			Driver Correction
86			Driver Correction
87			Driver Correction
88			Driver Correction
89			Driver Correction
90			Driver Correction
91			Driver Correction
92			Driver Correction
93			Driver Correction
94			Driver Correction
95			Driver Correction
96			Driver Correction
97			Driver Correction
98			Driver Correction
99			Driver Correction
100			Driver Correction

Code	Plant	Equip	Description
1			Driver Correction
2			Driver Correction
3			Driver Correction
4			Driver Correction
5			Driver Correction
6			Driver Correction
7			Driver Correction
8			Driver Correction
9			Driver Correction
10			Driver Correction
11			Driver Correction
12			Driver Correction
13			Driver Correction
14			Driver Correction
15			Driver Correction
16			Driver Correction
17			Driver Correction
18			Driver Correction
19			Driver Correction
20			Driver Correction
21			Driver Correction
22			Driver Correction
23			Driver Correction
24			Driver Correction
25			Driver Correction
26			Driver Correction
27			Driver Correction
28			Driver Correction
29			Driver Correction
30			Driver Correction
31			Driver Correction
32			Driver Correction
33			Driver Correction
34			Driver Correction
35			Driver Correction
36			Driver Correction
37			Driver Correction
38			Driver Correction
39			Driver Correction
40			Driver Correction
41			Driver Correction
42			Driver Correction
43			Driver Correction
44			Driver Correction
45			Driver Correction
46			Driver Correction
47			Driver Correction
48			Driver Correction
49			Driver Correction
50			Driver Correction
51			Driver Correction
52			Driver Correction
53			Driver Correction
54			Driver Correction
55			Driver Correction
56			Driver Correction
57			Driver Correction
58			Driver Correction
59			Driver Correction
60			Driver Correction
61			Driver Correction
62			Driver Correction
63			Driver Correction
64			Driver Correction
65			Driver Correction
66			Driver Correction
67			Driver Correction
68			Driver Correction
69			Driver Correction
70			Driver Correction
71			Driver Correction
72			Driver Correction
73			Driver Correction
74			Driver Correction
75			Driver Correction
76			Driver Correction
77			Driver Correction
78			Driver Correction
79			Driver Correction
80			Driver Correction
81			Driver Correction
82			Driver Correction
83			Driver Correction
84			Driver Correction
85			Driver Correction
86			Driver Correction
87			Driver Correction
88			Driver Correction
89			Driver Correction
90			Driver Correction
91			Driver Correction
92			Driver Correction
93			Driver Correction
94			Driver Correction
95			Driver Correction
96			Driver Correction
97			Driver Correction
98			Driver Correction
99			Driver Correction
100			Driver Correction

PLANT AND EQUIP CODES BY COLUMN NO. 45,  
46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

The "1" in each column indicates 10, 20, 30, 40, 50, 60, 70, 80, 90, 100. Processing in time units are entered.

Code Description Dept.  
July 16, 1969

# 1970 F-85 FACTORY INSTALLED OPTIONAL EQUIPMENT

	31	32	35	36	42	44	48
	7	7	3 3 678	3 3 678	356	678	5 6
	7	7	5 9 977	5 9 977	977	777	5 5
AA3 Tinted Roof Glass - Chrome Coated	N	N	N N NNN	N N NNN	NNN	NNN	X X
A01 Tinted Body Glass *Including Windshield*	X	X	X X XXX	X X XXX	XXX	XXX	X X
A02 Tinted Windshield Glass	X	X	X X XXX	X X XXX	XXX	XXX	X X
A31 Electric 4-Window Lifts	N	N	X X XXX	X X XXX	XXX	XXX	X X
A33 Electric Rear Window *Tailgate*	N	N	X N NNN	X N NNN	NNN	NNN	X X
A39 Deluxe Seat Belts - Front & Rear * Including Middle Seat Belts on Bench Seats *	N	N	N N NNN	N N NNN	NNX	XNN	N N
A41 Electric 4-Way Seat Adjuster *Bench Seat * # Available Only With A52 or A65 Option	X	X	X X XXX	X X XXX	X@@	@@@	X X
A46 Electric 4-Way Seat Adjuster * Bucket Seat L., H., Only * * Not Available With A52 or A65 Option *	N	N	N N NXX	N N NXX	NXX	XXX	N N
A51 Bucket Seat Option - Strato	N	N	N N NXX	N N NXX	NS5	SS5	N N
A52 Bench Seat Option - Conventional * Not Available with D55 or W26 Equipment *	S	S	S S SSS	S S SSS	NNN	NXX	S S
A65 Bench Seat Option - Notch Back * Not Available with D55 or W26 Equipment *	N	N	N N NNN	N N NNN	SXX	XNN	N N
A85 Front Shoulder Belts - Deluxe Type * Must get A39 Option *	N	N	N N NNN	N N NNN	NNX	XNN	N N
A90 Electric Trunk Lid Latch	X	X	N X XXX	N X XXX	XXX	XXX	N N
AK1 Deluxe Seat Belt Option 1. A39 Seat Belts - Front & Rear * Includes Middle Seat Belts on Bench Seats * * Includes Third Seat on 34865 * 2. A85 Shoulder Belts - Front	X	X	X X XXX	X X XXX	XXN	NXX	X X
A51 Front Shoulder Belts - Standard Type * Not Available with A39 or A54 *	S	S	S S SSS	S S SSS	SSX	X55	S S
A54 Rear Shoulder Belts - Deluxe Type * Includes Third Seat on 34865 * * Must get A39 or AK1 Options *	X	X	X X XXX	X X XXX	XXX	XXX	X X
A55 Rear Shoulder Belts - Standard Type * Includes Third Seat on 34865 * * Not Available with A39, A85 or AK1 *	X	X	X X XXX	X X XXX	XXX	XXX	X X
AU3 Lock - Side Door Electric *Front A/O Rear *	N	N	X X XNN	X X XNN	XNN	NNN	X X
AU5 Lock - Seat Back & Side Door Electric	X	X	N N NXX	N N NXX	NXX	XXX	N N
I00 Floor Carpet *Front & Rear *	X	X	S S SSS	S S SSS	SSS	SSS	S S
I02 + Auxiliary Front Floor Mats	X	X	X X XXX	X X XXX	XXX	XXX	X X
I03 + Auxiliary Rear Floor Mats	X	X	X X XXX	X X XXX	XXX	XXX	X X
I09 Carpeted Load Floor	N	N	X N NNN	X N NNN	NNN	NNN	X X
I10 Foam Front Seat Cushion	X	X	X X X55	X X X55	SS5	SS5	S S
I01 Wood Grain Instrument Panel	X	X	X X XXX	X X XXX	SS5	SS5	S S
I80 Exterior Drip Seal Mouldings * Included in C08 Option on 33569, 77, 87 and 33669, 77, 87 * * Must get D85 on 33577, 87 and 33677, 87 *	N	N	X S XXX	X S XXX	SSN	SS5	S S
I84 Exterior Body Side & Fender Mouldings - Vinyl Insert * Not Available with W31 Option *	N	N	X X XXX	X X XXX	NNN	NNN	N N
I85 Exterior Belt Moulding * Must get B90 on 33577, 87 & 33677, 87 * * Included in C08 Option on 34257 *	N	N	N N NXX	N N NXX	NXN	NXX	N N
I90 Chrome Door Window Frames	X	X	S N SXN	S N SXN	NNN	NSN	S S
I93 Door Edge Guard	X	X	X X XXX	X X XXX	XXX	XXX	X X

# 1970 F-85 FACTORY INSTALLED OPTIONAL EQUIPMENT

	31	32	35	36	42	44	48
	7	7	3 3 678	3 3 678	356	678	5 6
	7	7	5 9 977	5 9 977	977	777	5 5
C08 Roof Top Covering * Includes B80 Option on 33100, 33200, 33560, 77, 87 & 33660, 77, 87 * * Includes B85 Option on 34257 *	X	X	N X XXX	N X XXX	XXN	NXX	N N
C28 Double Action Tail Gate * To be scheduled as Fisher Body Styles 33636, 34856 or 34866 *	N	N	X N NNN	X N NNN	NNN	NNN	X X
C50 Defogger - Rear Window	X	X	N X XXX	N X XXX	XXN	NXX	N N
C51 Deflector Package - Air	N	N	X N NNN	X N NNN	NNN	NNN	X X
C60 Air Conditioning * See Axle Chart for Exception Usage * * Not Available with V01 or V02 *	X	X	X X XXX	X X XXX	XXX	XXX	X X
D15 Deluxe Arm Rests Brite Door Arm Rest Backplates Brite Quarter Arm Rest Backplates	N	N	N N NXX	N N NXX	SSS	SSS	S S
D33 Remote Control Outside Mirror	X	X	X X XXX	X X XXX	XXX	XXX	X X
D35 Rear View Mirrors - Outside - Styled Sports * Mandatory with W20 & W31 Options *	X	X	N N NXX	N N NXX	NXX	XXX	N N
D55 Front Compartment Console * Not Available with Column Shift * * Bucket Seats Mandatory with this Option *	N	N	N N NXX	N N NXX	NXX	XXX	N N
D99 Two Tone Paint	X	X	X X XXX	X X XXX	XXN	NXX	X X
F41 Suspension System - Front & Rear - Heavy Duty * Special Suspension System for Strenuous Service, Recommended for Trailer Hauling, Canadian & Overseas Export and continuous Heavy Trunk Loads and where majority of driving is on Secondary and Rural Roads * * Includes Front & Rear Springs, Front Stabilizer Bar and Heavy Duty Firm Ride Control Shocks * * G66 Superlift Shocks Available *	X	X	X X XXX	X X XXX	XXX	NNN	X X
FE2 442 Suspension Package * Includes Springs, Shocks, Stabilizer Shafts, Rear Lower Control Arms & Wheels * * Not Available with FG2 Option * * G66 Available Only with M38 or M40 Option * * N66 or P05 Wheel Option Available * * PC2 Wheel 14 x 7JJ Included * * Mandatory with W31 Option *	N	X	N N NNN	N N NXX	NXX	NNN	N N
FG2 Shock Absorbers - Front & Rear - Heavy Duty Firm Ride Control * Recommended for considerable Secondary Rural Road Driving * * Not Available with FE2 or G66 Options *	X	X	X X XXX	X X XXX	XXX	NNN	X X
G51 Heavy Duty Rear Springs * Available Only with M40 Option * * Not Available with G66 Option * * Recommended for Trailer Hauling - Class I - 1000-2000# Wgt., if Trailer Hauling is continuous * * Required for Trailer Hauling - Class II 2000-3500# Wgt. *	N	N	N N NNN	N N NNN	NNN	XXX	N N
G66 Superlift Rear Shock Absorbers * Available Only with M40 on 34400 Series, * Not Available with FG2 Option * * Recommended for Trailer Hauling - Class I - 1000-2000# Wgt. *	X	X	X X XXX	X X XXX	XXX	@@@	X X

**1970 F-85 FACTORY INSTALLED OPTIONAL EQUIPMENT**

	31	32	35		36		42	44	48						
	T	T	3	3	6	7	3	3	6	7	8	5	6		
	T	T	5	9	9	7	5	9	9	7	9	7	7	5	5
G80 Limited Slip Type Differential * Anti-Spin Axle * * Mandatory when 3, 42 or 3, 91 Ratios are used *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X		
G88 Performance Rear Axle - 3, 91 Ratio @ Available Only with W30 Option, * For Usage refer to Axle Chart 404524 * * G80 Mandatory * * Must get V01 Heavy Duty Radiator Option * * Not Available with C60 or Y72 Options * * N10 Mandatory on 34200 Series with 350 Cu. In. 4-Barrel Engine * * N10 Mandatory on 33200, 33600 Series with L74 Option *	N	X	N	N	NNN	N	X	XXX	XXX	@@@	N	N			
G90 Performance Rear Axle - 3, 08 Ratio * For Usage refer to Axle Chart 404524 * * Recommended for Trailer Hauling - Class I - 1000-2000# Weight *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X			
G91 Performance Rear Axle - 3, 23 Ratio * For Usage refer to Axle Chart 404524 * * Recommended for Trailer Hauling - Class II - 2000-3500# Weight *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X			
G92 Performance Rear Axle - 3, 42 Ratio * For Usage refer to Axle Chart 404524 * * G80 Mandatory * * Must get V02 Heavy Duty Radiator Option * * Not Available with C60 or Y72 Options * * Not Avail. with W31 Option on 33200 or 33671, 87 * * N10 Mandatory on 34200 Series with 350 Cu. In. 4-Barrel Engine * * N10 Mandatory on 33200, 33600 Series with L74 Option *	N	X	N	N	NNN	N	X	XXX	XXX	XXX	N	N			
G95 Plains Axle Ratio - 2, 78 Ratio * For Usage refer to Axle Chart 404524 *	S	X	S	S	SSS	X	X	XXX	XXX	XXX	X	X			
G96 Plains Axle Ratio - 2, 56 Ratio * For Usage refer to Axle Chart 404524 * * Not Available with SM or FS Transmission *	N	X	N	N	NNN	X	X	XXX	XXX	XXX	N	N			
J50 Power Brakes * Not Available with JL2 Option *	X	X	X	X	XXX	X	X	XXX	XXX	NNN	N	N			
JL2 Front Disc Brakes - Power * Mandatory with L31 Option on 34800 * * Mandatory with L33 on 33635 *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X			
JL7 Front Disc Brakes - Manual - Delete * Available Only with W30 or W31 *	N	X	N	N	NNN	N	N	XXX	NNN	XXX	N	N			
K30 Automatic Throttle Control * Available Only with Automatic Transmission & Power Brakes *	N	X	N	N	NNN	X	X	XXX	XXX	XXX	X	X			
L31 Engine Option * 455 Cu. In. - V-8 H.C. - 4-Barrel * * JL2 Mandatory * * M40 Mandatory * * N10 Option Not Available * * Dual Exhaust System Included *	N	N	N	N	NNN	N	N	NNN	NNN	NNN	X	X			
L33 Engine Option * 455 Cu. In. - V-8 H.C. - 2-Barrel * * M40 Transmission Mandatory * * N10 Option Not Available * * Dual Exhaust System Included * * Mandatory with Y79 on 34257, 87 * * JL2 Mandatory on 33635 *	N	N	N	N	NNN	X	X	XXX	XXX	NNN	N	N			

# 1970 F-85 FACTORY INSTALLED OPTIONAL EQUIPMENT

	31	32	35	36	42	44	48
	T	T	3 3 678	3 3 678	356	678	5 6
	T	T	5 9 977	5 9 977	977	777	5 5
L65 Engine Option	N	S	N N NNN	S S SSS	XXX	NNN	S S
• 350 Cu. In. - V-8 L.C. - 2-Barrel*							
• 2.56 Axle Ratio Standard on 34200 with Automatic Transmission*							
• Not Available with N10 on 34200*							
L74 Engine Option	N	X	N N NNN	X X XXX	SSS	NNN	X X
• 350 Cu. In. - V-8 H.C. - 4-Barrel*							
• N10 Mandatory with 3.42 & 3.91 Axle Ratios*							
M14 Manual Transmission - 3-Speed Fully Synchronized - Floor Shift - Heavy Duty	N	X	N N NNN	N N NXX	NXX	SSS	N N
• Standard with W31 Option*							
• V01 Mandatory if 3.91 Axle is used*							
• V02 Mandatory if 3.42 Axle is used*							
M20 Manual Transmission - 4-Speed Fully Synchronized - Floor Shift	N	X	N N NNN	N N NXX	NXX	NNN	N N
• Not Available with 3.42 or 3.91 Axles if C60 or Y72 is ordered*							
• V01 Mandatory if 3.91 Axle is used*							
• V02 Mandatory if 3.42 Axle is used*							
• Available Only with 350 Cu. In. Engines*							
M21 Manual Transmission - 4-Speed - Close Ratio Fully Synchronized - Floor Shift	N	X	N N NNN	N N NXX	NXX	XXX	N N
• V01 Mandatory with 3.91 Axle*							
• V02 Mandatory with 3.42 Axle*							
• Not Available with C60 or Y72*							
• Mandatory with W30 if M40 is not ordered*							
• N10 Mandatory on 34200 Series with 350 Cu. In. 4-Barrel Engine*							
• N10 Mandatory on 33200, 33600 Series with L74 Option*							
M38 Turbo-Hydra-Matic Transmission	X	X	X X XXX	X X XXX	XXX	NNN	X X
• 3-Speed Torque Converter*							
• V01 Mandatory if 3.91 Axle is used*							
• V02 Mandatory if 3.42 Axle is used*							
• Available with 350 Cu. In. Engines Only*							
M40 Turbo-Hydra-Matic Transmission	N	N	N N NNN	X X XXX	XXX	XXX	X X
• 3-Speed Torque Converter*							
• Mandatory with W30 if Auto. Trans. is ordered*							
• Mandatory with L31 Option on 34800*							
• Mandatory with L33 Option*							
• V01 Mandatory if 3.91 Axle is used*							
• V02 Mandatory if 3.42 Axle is used*							
• Available Only with 455 Cu. In. Engine*							
M55 Auxiliary Oil Cooler - Automatic Transmission	N	X	N N NNN	X X XXX	XXX	XXX	X X
• Recommended for Trailer Hauling*							
N10 Dual Exhaust System	N	X	N N NNN	N X XXX	XXX	NNN	N N
• Available Only when L74 Option is ordered - Except 33677, 87*							
• Available with All 350 Cu. In. Engines on 33677, 87*							
• Not Available with L31, L33 or L65 Options*							
• Mandatory with W31 Option*							
• Mandatory on 34200 with 350 Cu. In. 4-Barrel Engine & 3.42 or 3.91 Axle*							
• Mandatory on 33200, 33600 with L74 and 3.42 or 3.91 Axles*							
N30 Deluxe Steering Wheel	X	X	S S SSS	S S SSS	SSS	SSS	X X
N33 Steering Column Assembly - Tilt-Away	X	X	X X XXX	X X XXX	XXX	XXX	X X
• Not Available on SM Jobs with Column Shift*							
N34 Steering Wheel - Custom Sport	X	X	X X XXX	X X XXX	XXX	XXX	X X
N42 Deluxe Steering Wheel - Rim Blower	X	X	X X XXX	X X XXX	XXX	XXX	X X

# 1970 F-85 FACTORY INSTALLED OPTIONAL EQUIPMENT

	31	32	35		36		42	44	48			
	7	7	3	3	6	7	8	6	7	8	5	6
	7	7	5	9	9	7	7	5	9	7	7	5
N47 Power Steering - Variable Ratio	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
N66 Wheel Equipment - Custom Sport * 14 Inch Wheel, Painted Spider, Capped Wheel Nuts, Ornament, Bezel & Trim Ring *	X	X	N	X	XXX	N	X	XXX	XXX	XXX	N	N
N95 Cover - Simulated Wire Wheel	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
NA9 Evaporative Emission System * Mandatory with & Available Only on California Cars *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
P01 8 Wheel Discs * Mandatory with Y79 Option *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
P02 8 Wheel Discs *Deluxe *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
P05 Wheel Equipment - Custom Trim * 14 Inch Wheel, Painted Spider, Capped Wheel Nuts, Ornament & Rim *	X	X	N	X	XXX	N	X	XXX	XXX	XXX	N	N
P06 Wheel Trim Ring @ Available Only with FE2 or PC2 on these models,	@	@	N	@	@@	N	@	@@@	@@@	XXX	N	N
P26 White Wall Tires - Standard Size	X	X	X	X	XXX	X	X	XXX	XXX	NNN	X	X
P37 Wheel & Tire Option - 15 Inch * Custom Sport 15" Wheel, Chromium 7" Rims, Painted Spider, Capped Wheel Nuts, Ornament & Bezel, G60 x 15 Super Wide Oval Fiberglass Belted Tire with Raised White Letters * * Available Only with Disc Brakes (Manual or Power) *	X	X	N	X	XXX	N	X	XXX	XXX	XXX	N	N
PC2 Wheel Option - 14 x 7JJ * Included in FE2 Option unless N66 or P05 is ordered *	X	X	N	X	XXX	N	X	XXX	XXX	SSS	N	N
PK5 Tire - G70 x 14 Wide Oval - Black Wall with Raised White Letters * Mandatory with W30 or W31 Option *	X	X	N	N	XXX	N	N	XXX	XXX	XXX	N	N
PX6 Tire - G70 x 14 Wide Oval - White Stripe	X	X	N	N	XXX	N	N	XXX	XXX	SSS	N	N
T44 Interior Operated Hood Lock	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
T60 Battery - Special * Not Available with 455 Cu. In. Engine *	N	X	N	N	NNN	X	X	XXX	XXX	NNN	X	X
T81 Head Lamp Off-Delay Control	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
U15 Safety Sentinel * Not Available with 9TU18 or 98U18 *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
U21 Instrument Cluster - Rally Pack	N	X	N	N	NNN	X	X	XXX	XXX	XXX	X	X
U35 Electric Clock * Not Available with U21 Option *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
U57 Tape Player - Stereo * Includes Rear Seat Speaker - Except with U58 * * Must get U58 or U63 Option * * Not Available with 97C48 or 98C48 *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
U58 Stereophonic Radio *AM-FM * * Includes Rear Seat Speaker *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
U63 Deluxe Radio	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
U80 Rear Seat Speaker * Included in U57 or U58 Options *	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X
U89 Wiring Harness - Car Trailer	X	X	X	X	XXX	X	X	XXX	XXX	XXX	X	X

1970 F-85 FACTORY INSTALLED OPTIONAL EQUIPMENT

	31	32	35	36	42	44	48
	T	T	3 3 678	3 3 678	356 678	678 5 6	5 6
	T	T	5 9 977	5 9 977	977	777 5 5	5 5
V01 Radiator - Heavy Duty * Mandatory & Available Only with 3,91 Axle * * Not Available with C60 or Y72 Options *	N	X	N N NNN	X X XXX	XXX	XXX	N N
V02 Radiator - Heavy Duty * Mandatory & Available Only with 3,42 Axle * * Not Available with C60 or Y72 Options *	N	X	N N NNN	X X XXX	XXX	XXX	N N
V55 Luggage Carrier	N	N	X N NNN	X N NNN	NNN	NNN	X X
V56 Lock & Trim - Luggage Locker	N	N	X N NNN	X N NNN	NNN	NNN	X X
W25 Force Air Induction System @ Available Only with L74 Option, * Included in W30 & W31 Options * * Not Available with Y73 Option * * Includes Special Hood Paint Scheme *	N	N	N N NNN	N N N@@	NNN	XXX	N N
W26 Front Compartment Console - Dual Gate Shifter * Available Only with Auto, Trans, Floor Shift * * Bucket Seats Mandatory with this Option *	N	N	N N NXX	N N NXX	NXX	XXX	N N
W27 Aluminium Rear Axle Carrier * Available Only with W30 or W31 Options *	N	X	N N NNN	N N NXX	NNN	XXX	N N
W30 Induction System - Carburetor Outside Air - Available As Special Order Only -  Included In W30  455 Cu. In. 4-Barrel H.C. Engine with Selected Parts, Manual Disc Brakes Included - however if Manual Drum Brakes (which are Standard Car) are preferred, JLT Option may be ordered to delete Manual Disc Brakes, W25 Force Air Induction System, Special Body Side Paint Stripe, Special Hood Paint Scheme,  Mandatory With W30  For Axle Usage refer to Chart 404524, D35 Outside Rear View Mirrors, G80 Limited Slip Type Differential with 3,42 or 3,91 Ratio, M21 or M40 Transmission, PK5 Tire - Wide Oval with White Letters, V01 Heavy Duty Radiator Option with 3,91 Axle Ratio, V02 Heavy Duty Radiator Option with 3,42 Axle Ratio, JL2 Available with M40 Not Available With W30  K30, T60, Y72, or Y73, Delete Standard Body Side Paint Stripe, C60 is Available with W30 Option with M40 Transmission and 3,23 Axle Ratio,	N	N	N N NNN	N N NNN	NNN	XXX	N N
W31 Induction System - Carburetor Outside Air - Available As Special Order Only -  Included In W31  350 Cu. In. 4-Barrel H.C. Engine with Selected Parts, Manual Disc Brakes Included - however if Manual Drum Brakes (which are Standard Car) are preferred, JLT Option may be ordered to delete Manual Disc Brakes,	N	X	N N NNN	N N NXX	NNN	NNN	N N

# 1970 F-85 FACTORY INSTALLED OPTIONAL EQUIPMENT

	31	32	35	36	42	44	48
	7	7	3 3 678	3 3 678	356	678	5 6
	7	7	5 9 977	5 9 977	977	777	5 5
<b>W31 (Continued)</b>							
W25 Force Air Induction System, Special Body Side Paint Stripe, Special Hood Paint Scheme.							
Mandatory With W31							
For Axle Usage refer to Chart 404524, D35 Outside Rear View Mirrors, FE2 442 Suspension System, G80 Limited Slip Type Differential, M14, M20, M21 or M38 Transmission, N10 Dual Exhaust System, PK5 Tire - Wide Oval with White Letters, V01 Heavy Duty Radiator Option with 3.91 Axle Ratio.							
Not Available With W31							
C60, J50, J12, K30, L74, L90, Y72 or Y73, Delete Front Fender Side Moulding and Ornament, Door & Rear Quarter Side Mouldings from the 33677, 87 Models.							
<b>Y60 Accessory Group Package</b>							
1. Visor Vanity Mirror	X	X	X X XXX	X X XXX	XXX	XXX	X X
2. Luggage Compartment Lamp	X	X	N X XXX	N X XXX	XXX	XXX	N N
3. Underhood Lamp	X	X	X X XXX	X X XXX	XXX	XXX	X X
4. Glove Box Lamp	X	X	X X XXX	X X XXX	XXX	XXX	X X
5. Ash Tray Lamp	X	X	X X XXX	X X XXX	XXX	XXX	X X
6. *C67* Sail Panel Lamps	N	N	N N NNN	N N NNN	XXX	XXX	N N
7. *UF1* Mirror & Front Compartment Lamp	X	X	X X XXX	X X XXX	XXX	XXX	X X
8. Instrument Panel Control Lighting	X	X	X X XXX	X X XXX	XXX	XXX	X X
9. *U29* Courtesy Lamps & Map Lamp * Standard on 33677, 87, 34257, 34477, 87 SM & FS when D55 is ordered * * Rear Door Jamb Switches & Wiring Included in All 4-Door Styles *	X	X	X X XXX	X X XXX	XXX	XXX	X X
<b>Y72 Heavy Duty Engine Cooling &amp; Generator Pkg.</b> * Not Available with 3.42 or 3.91 Axle Ratios * * Not Available with V01 or V02 Options *	X	X	X X XXX	X X XXX	XXX	XXX	X X
<b>Y73 Hood Paint Stripe</b>	N	N	N N XXX	N N XXX	NNN	XXX	N N
<b>Y79 Cutlass Supreme Performance Package</b> Mandatory With Y79 L33 Engine Option 455 Cu. I. 2-Barrel R.C. V-8 (Includes Dual Exhaust with Special Outlets) M40 Transmission P01 Wheel Disc - Unless P02, P05, P37, N86 or N95 is ordered.  Included In Y79 For Axle Usage refer to Chart 401523, Special Fender Ornament, 442 Rear Bumpers.	N	N	N N NNN	N N NNN	XXX	NNN	N N
<b>Section 96 Canadian Export Option</b>							
K05 Engine Block Heater	X	X	X X XXX	X X XXX	XXX	XXX	X X
P16 Tire - 4-Ply Whitewall Nylon	X	X	X X XXX	X X XXX	XXX	XXX	X X
V48 Maximum Protection - Permanent Anti-Freeze * Mandatory Option *	X	X	X X XXX	X X XXX	XXX	XXX	X X

# 1970 F-85 FACTORY INSTALLED OPTIONAL EQUIPMENT

	31	32	35			36			42	44	48		
	7	7	3	3	6	7	8	3	6	7	8	5	6
	7	7	5	9	9	7	7	5	9	7	7	5	5
<b>Section 97 Knocked-Down Chassis *Export Opt. *</b>													
A39				X	X		X	X		XX			
				* Must get AS6 *									
A48				X	X		X	X		XX			
				* Must get AS6 *									
AR1				X	X		X	X		XX			
AS6				X	X		X	X		XX			
D28				X	X		X	X		XX			
L90				X	X		X	X		XX			
P16				X	X		X	X		XX			
P38				X	X		X	X		XX			
				* Five Wheels Only Furnished *									
T62				X	X		X	X		XX			
T64				X	X		X	X		XX			
U18				X	X		X	X		XX			
V78				X	X		X	X		XX			
				Delete									
ZB2				X	X		X	X		XX			
				Delete									
				and Unpolished									
<b>Section 98 Single Unit Pack Chassis *Export Opt. *</b>													
A39	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
				* Must get AS6 *									
A48	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
				* Must get AS6 *									
AR1	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
AS6	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
L90	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
				* Not Available with SM or FS Transmission on 34800 *									
P16	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
P32	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
T74	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
U18	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
V60	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
V78	X	X	X	X	XXX	X	X	XXX	XXX	XXX	XXX	X	X
				Delete									

**1970 88-98 FACTORY INSTALLED OPTIONAL EQUIPMENT**

	54	64	66	84	86
	33 66 79 79	33 6 79 9	4 2	35 66 97 79	36 99
A01 Tinted Body Glass *Including Windshield*	XX XX	XX X	X	XX XX	XX
A02 Tinted Windshield Glass	XX XX	XX X	X	XX XX	XX
A31 Electric 4-Window Lifts	XX XX	XX X	X	XS SX	SS
AK1 Deluxe Seat Belts & Shoulder Belts 1, A39 Seat Belts - Front & Rear * Includes Middle Seat Belts on Bench Seats * 2, A85 Shoulder Belts - Front	XX NX	XX X	X	SS NS	SS
A39 Deluxe Seat Belts - Front & Rear	NN XX	NN N	N	NN SN	NN
A42 Electric 6-Way Seat Adjuster *Bench Seat * * Not Available with AM6 *	XX XX	XX X	X	XX XX	XX
AG1 Electric 6-Way Seat Adjuster * 60-40 Seat - Driver Side Only * * Available Only with AM6 *	NN NN	NN N	N	NX NN	XX
AG2 Electric 6-Way Seat Adjuster * 60-40 Seat - Passenger Side Only * * Must get AG1 & AM6 *	NN NN	NN N	N	NX NN	XX
A46 Electric 4-Way Seat Adjuster * L, R, Bucket Seat - A51 Option *	NN NN	NN N	X	NN NN	NN
AM6 Seat Assembly - Front Seat Split 60/40 With Center Arm Rest * Not Available with A42 *	NN NN	NN N	N	NX NN	XX
A51 Bucket Seat Option - Strato	NN NN	NN N	X	NN NN	NN
A74 Heavy Duty Cushion & Back Springs - Frt. & Rr.	NX NX	NN N	N	NN NN	NN
A85 Front Shoulder Belts - Deluxe Type * Must get A39 Option *	NN XX	NN N	N	NN XX	NN
A90 Electric Trunk L&L Latch	XX XX	XX X	X	XX XX	XX
A81 Front Shoulder Belts - Standard Type * Not Available with A39 or A54 *	SS XS	SS S	S	NN NN	NN
A54 Rear Shoulder Belts - Deluxe Type * Must get A39 on 35467 * * Must get AK1 on 5437, 39, 69, 6400, 6600 *	XX XX	XX X	X	XX XX	XX
A55 Rear Shoulder Belts - Standard Type * Not Available with A39, A85 or AK1 *	XX XX	XX X	X	NN NN	NN
AU3 Lock - Side Door Electric *Front A/O Rear *	NX NX	NX X	N	XX NX	XX
AU5 Lock - Seat Back & Side Door Electric	XX XX	XX N	X	XX XX	NN
E07 Police Approbender - Highway Patrol * Special Suspension System recommended for High Speed Police Requirements * * Includes Front & Rear Springs, Front Stabilizer Shaft, Front & Rear Shock Absorbers, Rear Stabilizer Shaft and Reinforced Lower Control Arm Assembly, *	XX XX	XX X	X	NN NN	NN
I32 * Front Auxiliary Floor Mats	XX XX	XX X	X	XX XX	XX
I33 * Rear Auxiliary Floor Mats	XX XX	XX X	X	XX XX	XX
IG1 Heavy Duty Floor Covering *Black * * Front & Rear *	NN NX	NN X	N	NN NN	NN
I36 Luggage Compartment Mat	XX XX	XX X	X	XX XX	XX
I50 Foam Front Seat Cushion * Included in Y67 *	XX XX	SS S	S	SS SS	SS
B80 Hood Drip Moulding * Included in C08 Option on 35469 *	XS NX	SS S	S	SS NS	SS
B85 Exterior Belt Moulding * Available Only with B80 Option, * Included in C08 Option on 35469 & 36469 *	OX XX	XX X	S	SS SS	SS

# 1970 88-98 FACTORY INSTALLED OPTIONAL EQUIPMENT

	54	64	66	84	86
	33 66 79 79	33 6 79 9	4 7	35 66 97 79	36 99
D90 Chrome Door Window Frames	NN NX	NN S	N	NN NN	NN
D93 Door Edge Guard	XX XX	XX X	X	XX XX	XX
C08 Roof Top Covering * Includes B80 Option on 35469 * * Includes B85 Option on 35469 & 36469 *	XX NX	XX X	S	XX NX	XX
C49 Defogger - Rear Window - Electric * Not Available in Cars built for Canada *	XX XX	XX X	X	XX XX	XX
C60 Air Conditioning * Power Steering Mandatory with this Option *	XX XX	XX X	X	XX XX	XX
C61 Air Conditioning - Automatic Controls * Power Steering Mandatory with this Option *	XX XX	XX X	X	XX XX	XX
D33 Remote Control Outside Mirror	XX XX	XX X	X	XX XX	XX
D55 Front Compartment Console * Bucket Seats Mandatory * * Available Only with M40 or M41 Options *	NN NN	NN N	X	NN NN	NN
D99 Two Tone Paint	XX NX	XX X	N	XX NX	XX
F35 Heavy Duty Frame * Recommended for Trailer Hauling - Class III - 3500-5000+ Weight Only * * N99 Option Recommended *	XX SX	XX X	X	XX SX	XX
F41 Suspension System - Front & Rear - Heavy Duty * Special Suspension System for strenuous service. Recommended for Trailer Hauling, Canadian & Overseas Export, Police City Cruiser, continuous Heavy Trunk Loads and where majority of driving is on Secondary and Rural Roads. * * Includes Front and Rear Springs, Front Stabilizer Bar and Heavy Duty Firm Ride Control Shocks * * G66 Superlift Shocks are Available *	XX XX	XX X	X	XX XX	XX
FG2 Shock Absorbers - Front & Rear - Heavy Duty Firm Ride Control * Recommended for considerable Secondary and Rural Road Driving * * Not Available with B07 Option *	XX XX	XX X	X	XX XX	XX
G66 Superlift Rear Shock Absorbers * Not Available with B07 Option * * Not Available with FG2 Option * * Recommended for Trailer Hauling - Class I - 1000-2000+ Weight *	XX XX	XX X	X	XX XX	XX
G80 Limited Slip Differential * Anti-Spin Axle *	XX XX	XX X	X	XX XX	XX
G91 Performance Rear Axle - 3.23 Ratio * Recommended for Trailer 1000-3500+ * * Standard with SM Transmission * * Available Only on 350 Cu. In. Engines *	XX XX				
G94 Performance Rear Axle - 2.93 Ratio * Standard on SM Transmission * * Available Only on 455 Cu. In. Engines *	XX XX	XX X	X	XX XX	XX
J55 Heavy Duty Brakes - Power - Front Disc * Heavier Spider & 6 Inch Rim Wheel * * Available Only for Police Usage * * Not Available with 3-Speed SM Transmission *	XX XX	XX X	X	XX XX	XX
JL2 Front Disc Brakes - Power * Floating Caliper * * Not Available with J55 Option * * Not Available with 3-Speed SM Transmission * * Power Steering Mandatory *	XX XX	XX X	X	SS SS	SS

# 1970 88-98 FACTORY INSTALLED OPTIONAL EQUIPMENT

	54	64	66	84	86
	33 66 79 79	33 6 79 9	4 7	35 66 97 79	36 99
K30 Automatic Throttle Control * Available Only with Automatic Transmission & Power Brakes *	XX XX	XX X	X	XX XX	XX
K81 Delcotron - 60 Ampere * Available Only for Police Usage * * Not Available with C49 Option *	XX XX	XX X	X	XX XX	XX
L30 Engine Option * Low Comp. 2 Barrel * 455 Cu. In. *	XX XX	SS S	S	NN NN	NN
L31 Engine Option * High Comp. 4 Barrel * 455 Cu. In. * * M40 Transmission Mandatory *	XX XX	XX X	X	SS SS	SS
M40 Turbo-Hydra-Matic Transmission * Three Speed Torque Converter *	XX XX	XX X	X	SS SS	SS
M41 Turbo-Hydra-Matic Transmission * Three Speed Torque Converter * * Mandatory with and Available Only on W33 Option *	XX XX	XX X	X	NN NN	NN
M55 Auxiliary Oil Cooler - Automatic Transmission * Recommended for Trailer Hauling *	XX XX	XX X	X	XX XX	XX
NA9 Evaporative Emission System * Mandatory with & Available Only on California Cars *	XX XX	XX X	X	XX XX	XX
N33 Steering Column Assembly - Tilt-Away * Available Only with Automatic Transmission *	XX XX	XX X	X	XX XX	XX
N37 Steering Wheel & Column - Tilt & Travel * Rim Blower Type Wheel Included *	NN NN	NN N	N	XX XX	XX
N42 Deluxe Steering Wheel * Rim Blower * * Not Available with N37 Option *	XX XX	XX X	X	XX XX	XX
N47 Power Steering - Variable Ratio	XX XX	XX X	X	SS SS	SS
N99 Wheels - Heavy Duty * Heavier Spider & 6 Inch Rim * * Not Available with J55 Option - Parts Included * * Recommended for Trailer Hauling * * Recommended for Police Usage *	XX XX	XX X	X	XX XX	XX
P03 † Deluxe Wheel Discs	XX XX	XX X	X	XX XX	XX
P26 White Wall Tires - Standard Sizes	XX XX	XX X	X	XX XX	XX
T44 Interior Operated Hood Lock	XX XX	XX X	X	XX XX	XX
T81 Headlamp Off - Delay Control	XX XX	XX X	X	XX XX	XX
T87 Cornering Lamp * Not Available with SM Column Shift *	XX XX	XX X	X	XX XX	XX
U11 Instrument Cluster * Certified Speedo * * Available Only for Police Usage *	XX XX	XX X	X	NN NN	NN
U15 Safety Sentinel * Not Available with U11 or 98U18 *	XX XX	XX X	X	XX XX	XX
U35 Electric Clock	XX XX	XX X	S	SS SS	SS
U57 Tape Player - Stereo * Includes Rear Seat Speaker Except with U58 * * Must get U58 or U63 Option *	XX XX	XX X	X	XX XX	XX
U58 Stereophonic Radio * AM-FM * * Includes Rear Seat Speaker *	XX XX	XX X	X	XX XX	XX
U63 Deluxe Radio	XX XX	XX X	X	XX XX	XX
U80 Rear Seat Speaker * Included in U57 or U58 Options *	XX XX	XX X	X	XX XX	XX
U89 Wiring Harness - Car Trailer	XX XX	XX X	X	XX XX	XX
U90 Wiring Harness - Roof Flasher - With Roof Panel Beinf. * Available Only for Police Usage *	NX NX	NX X	N	NN NN	NN

# 1970 88-98 FACTORY INSTALLED OPTIONAL EQUIPMENT

	54	64	66	84	86
	33 66 79 79	33 6 79 9	4 7	35 66 97 79	36 99
W33 Performance Engine *455 Cu. In. * M41 Transmission Mandatory * * Y72 Heavy Duty Cooling & Alternator Mandatory - For Police Usage Only *	XX XX	XX X	N	NN NN	NN
W33 Custom Leather Trim	NN NN	NN N	N	NX NN	XX
Y60 Accessory Package Group					
1. Visor Vanity Mirror	XX XX	XX X	X	XX XX	XX
2. Luggage Compartment Lamp	XX XX	XX X	X	XX XX	XX
3. Underhood Lamp	XX XX	XX X	X	XX XX	XX
4. Glove Box Lamp	XX XX	XX X	S	SS SS	SS
5. *UF1* Mirror - Inside & Front Compartment Lamp Asm.	XX XX	XX X	X	XX XX	XX
6. *U29* Courtesy Lamps & Map Lamps	XX SX	SS S	S	SS SS	SS
Y67 Interior Option					
1. *B50* Foam Front Seat Cushion	XX XX				
2. *C81* Rear Door Dome Lamp Switches	NX NN				
3. *C87* Rear Quarter Lamps	XX NN				
4. *D10* Chrome Rear Quarter Armrest Ash Trays with Lighters	NN XN				
5. *D15* Armrest - Deluxe - Front	XX XX				
Armrest - Deluxe - Rear	NX NX				
Backplates Added					
Y70 Paint Stripe Option	XN XN	XN N	S	XX XX	XX
Y71 Custom Interior Trim Option					
1. *A65* Seat Back - Front Seat Split	XX NN				
2. *B63* Seat Panel - Side - Upper & Lower	XX NX				
3. *C87* Lamps - Rear Quarter Courtesy	XX NN				
4. *D15* Arm Rests - Deluxe - Front	XX NX				
Arm Rests - Deluxe - Rear	NX NX				
5. *Y02* Seat - Front - Custom Trim Covers	XX NX				
6. *Y03* Seat - Rear - Custom Trim Covers	XX NX				
7. *Y09* Shroud Side - Custom	XX NX				
8. *Y10* Custom Build-Up - Door & Quarter	XX NX				
9. *Y17* Foundation - Comp. Shelf - Custom	XX NX				
Y72 Heavy Duty Cooling & Alternator Option * Mandatory with W33 Option - for Police Usage Only *	XX XX	XX X	X	XX XX	XX
Y78 Windshield Washer & Wiper - Shift Lever Controlled * Available with Automatic Transmission Column Shift Only *	XX XX	XX X	X	XX XX	XX
Section 96 Canadian Export Option					
C50 Defogger - Rear Window - Blower Type	XX NX	XX X	X	XX NX	XX
K05 Engine Block Heater	XX XX	XX X	X	XX XX	XX
P16 Tire - 4-Ply White Wall - Nylon	XX XX	XX X	X	XX XX	XX
V48 Maximum Protection - Permanent Anti- Freeze	XX XX	XX X	X	XX XX	XX
Section 98 Single Unit Pack Chassis *Export Opt. *					
A39 Seat Belts - Front & Rear - Deluxe * Must get AS6 *	XX NX	XX X	X	NN NN	NN
A48 Seat Belts - Front & Rear - Delete * Must get AS6 *	XX XX	XX X	X	XX XX	XX
AR1 Head Restraint - Delete	XX XX	XX X	X	XX XX	XX
AS6 Shoulder Belts - Front - Delete	XX NX	XX X	X	XX NX	XX
L90 Engine - Export - 350 Cu. In. Engine	XX XX	NN N	N	NN NN	NN
L91 Engine - Export - 455 Cu. In. Engine	XX XX	XX X	X	XX XX	XX
P16 Tire - 4-Ply White Wall - Nylon	XX XX	XX X	X	XX XX	XX
P32 Tire - Spare - Delete	XX XX	XX X	X	XX XX	XX
T74 Head Lamps - LH Rule of Road - Exp.	XX XX	XX X	X	XX XX	XX
U18 Speedometer - Export, Kilometer	XX XX	XX X	X	XX XX	XX
V60 Tire Pump - Foot - Export	XX XX	XX X	X	XX XX	XX
V78 Plate - Certificate of Compliance - Delete	XX XX	XX X	X	XX XX	XX

# 1970 TIRE PRESSURE LABELS

Series	Usage	Ident. Code	Broad. Code
F-85 Exc. 4400 SWS.	Std.	OM	M
	L33	ON	N
3535, 3635	Std.	OH	H
	C28	OJ	J
4400	All	OI	I
4800	All	OJ	J
88's & 98's	All	OK	K

Ref. PIM 0:110

# 1970 INSTRUMENT CLUSTER CODES

Series	Classification	Transmission Type	Safety Sentinel (U15)	Code
F-85	Regular	All Syn. or All Auto. with Console ( D55 or W26 )	No	RA
			Yes	RC
		M38 or M40 Exc. D55 or W26	No	RB
			Yes	RD
	Export	All Syn. or All Auto. with Console ( D55 or W26 )	No	RE
			M38 or M40 Exc. D55, W26	No
88	Regular	All	No	TA
			Yes	TB
	Police	All	No	TD
	Export	All	No	TC
98	Regular	All	No	TF
			Yes	TG
	Export	All	No	TC
9860	All	All	No	TE

Ref. PIM 1-3:90

# 1970 DELCOTRON CODES

SERIES	USAGE	IDENT. CODE	BROAD. CODE	AMP.
L6 3100 & 3500	Y72 With N47	AZ	Z	55
	Standard	AS	S	37
	Air Cond. With N47	BA	A	55
	Y72 And/Or Air Cond.	AJ	J	55
	N47	AW	W	37
F-85 V-8	Standard	AS	S	37
	Y72 And/Or Air Cond.	AJ	J	55
	Standard	AT	T	37
	Y72 And/Or Air Cond.	AY	Y	55
4400	Standard	AR	R	42
	Y72 Exc. K81, C49	DC	C	62
	K81	AL	L	55
	C49	AV	V	63
	Air Exc. Y72, L31, W33, C49, K81	DB	B	55
	Air, Y72, & L31, W33 Exc. C49, K81	DC	C	62
	Standard	AR	R	42
	C49	AV	V	63
	K81	AL	L	55
	Air and/or Y72 Exc. K81, C49	DC	C	62
88	Standard	AR	R	42
	Y72 Exc. K81, C49	DC	C	62
	K81	AL	L	55
	C49	AV	V	63
98	Standard	AR	R	42
	C49	AV	V	63
	K81	AL	L	55
	Air and/or Y72 Exc. K81, C49	DC	C	62

# 1970 AIR CLEANER AND LABEL CODES

Broad. Code	Part No.	Color	Engine	3100 & 3500	3200 & 3600	4200	4400	4800	5400	6400 & 6600	8400 & 8600
E	6484662 CE	Black	L6	Std. All							
O	6484801 OO	Black	2 BBL Low Comp.		Std.	L33, L65		Std.	Std.	Std.	
I	6486276 OI	Red	4 BBL High		L74	Std.		L31, L74	L31	L31	Std.
P	6486277 OP	Red	4 BBL High				Std.		W33	W33	
N	6486209 ON	Red	Special		W31 & W25		W30 & W25				
B	6485913 * OB	Black	4 BBL Low Comp.		NA9	L33 & L65, NA9		NA9	NA9	NA9	
D	6485914 * OD	Red	4 BBL High		L74, NA9	NA9		L31, L74, NA9	L31, NA9	L31, NA9	NA9
F	6485915 * OF	Red	4 BBL High				NA9		W33, NA9	W33, NA9	

\* California Cleaners Only

## 1970 AIR CLEANER LABEL CODES

A	Action Line 6	D	Rocket 455 2 BBL	H	Ram Rod 455 W30
B	Rocket 350 2 BBL	E	Rocket 455 4 BBL	J	Ram Rod 350 W31
C	Rocket 350 4 BBL	F	442	P	Highway Patrol

Ref. PIM 6-1:134

# 1970 BATTERY CODES

Series	Group	Ident. Code	Broad. Code
3100, 3500	All	Y55	D
F-85 V8 Exc. 4400	Std.	R59	E
	T60	R69	F
	Y79 / L31, L33	R71S	G
4400	All	R71S	G
5400	Std.	R59	E
	L30, L91	R71	H
	L31, W33	R71S	G
6400, 6600	Std.	R71	H
	L31, W33	R71S	G
8400, 8600	All	R71S	G

Ref. PIM 12:180

# 1970 RADATORS

F-85

Model	Y72	C60 & L31, L33	C60	V02	V01	M40	M38	Std.
3100, 3500	FE 3014745	--	SB 3014619	--	--	--	SI 3014744	SH 3014743
32, 36 4200	ED 3017108	EC 3017107	FE 3014745	FE 3014745	EC 3017107	FB 3014748	FB 3014748	FD 3014740
4400	ED 3017108	--	EC 3017107	FE 3014745	EC 3017107	FB 3014748	--	FA 3014742
4800	ED 3017108	EC 3017107	FE 3014745	--	--	FB 3014748	FB 3014748	FD 3014740

88 - 98

Model	Y72	C60, C61 & L30, L31, L91	C60, C61	M41	M40, L91, L30, L31	M40	Std.
5400	LC 3021970	OR 3017166	OU 3020543	LC 3021970	OA 3016833	OT 3018248	OD 3014644
6400, 6600	LC 3021970	--	OR 3017166	LC 3021970	--	OA 3016833	OD 3014644
8400, 8600	LC 3021970	--	OR 3017166	--	--	--	OA 3016833
9860	LC 3021970	--	--	--	--	--	--

Ref. PIM 11:50

# 1970 F-85 ENGINE SPEC. LABELS

Series	Usage	Ident. Code	Broad. Code	
3100, 3500	Std.	OB	B	
	M38	OC	C	
3200, 3600	Std.	OG	G	
	L33	ON	N	
	L74	OJ	J	
	M38 Exc. L90, L74, W31	OH	H	
	W31	OI	I	
4200	Std.	OJ	J	
	L33	ON	N	
	L65	Exc. M38	OG	G
		With M38	OH	H
4400	Std.	OE	E	
	M40 Exc. W30	OM	M	
	W30 Exc. M40	OP	P	
	W30 & M40	OF	F	
4800	Std.	OG	G	
	L31	OA	A	
	M38 Exc. L90, L74	OH	H	
	L74	OJ	J	

Ref. PIM 0:108

# 1970 88-98 ENGINE SPEC. LABELS

Series	Usage	Ident. Code	Broad. Code
5400	Std.	OG	G
	L30	OD	D
	L31	OA	A
	M40 Exc. L30, L31, L90, L91	OH	H
	W33	OM	M
6400, 6600	Std.	OD	D
	L31	OA	A
	W33	OM	M
8400, 8600	All	OA	A

Ref. PIM 0:108



## OLDSMOBILE DIVISION

General Motors Corporation

Lansing, Michigan 48921

# 1970 MODEL OLDSMOBILE MOTOR VEHICLE PRICE SCHEDULES

### Sections

- I—The list prices and Factory D & H charges applicable to 1970 Model Oldsmobile motor vehicles.
- II—Maximum destination charges for basic 1970 Model Oldsmobile motor vehicles.
- III—Manufacturer's Suggested Retail Delivered Prices for all Oldsmobile models and Manufacturer's Suggested Retail Delivered Prices for options and accessories when installed by Oldsmobile. Such suggested prices are the same as those that will be endorsed by Oldsmobile on the label that will be affixed to each new Oldsmobile vehicle as required by the Automobile Information Disclosure Act (Public Law 85-506, 85th Congress). In addition are shown list prices, amounts at which dealer is invoiced, Factory D & H charges, Manufacturer's Suggested Dealer New Vehicle Preparation charges for models and list prices, Dealer Prices and Factory D & H charges for options and accessories when installed by Oldsmobile.

The Manufacturer's Suggested Retail Prices on new Oldsmobile vehicles and Manufacturer's Suggested Retail Delivered Prices on factory installed Oldsmobile options and accessories do not include state and local taxes or license fees.

*ALL SPECIFICATIONS CONTAINED IN THIS BULLETIN ARE BASED ON THE LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF PUBLICATION. THE RIGHT IS RESERVED TO MAKE CHANGES AT ANY TIME IN PRICES, OPTIONS, ACCESSORIES, SPECIFICATIONS AND MODELS, AND ALSO TO DISCONTINUE OR ADD MODELS.*

# SECTION I

## LIST PRICES AND FACTORY D & H CHARGES

These list prices and Factory D & H charges applicable to 1970 Model Oldsmobile motor vehicles are furnished in accordance with the provisions of Terms of Sale Bulletin No. 7 and are effective as of September 18, 1969.

The discounts from list prices to be used in determining prices to dealer for 1970 Model Oldsmobile motor vehicles are contained in Terms of Sale Bulletin No. 7

## 1970 MODELS WITH STANDARD EQUIPMENT

Model Number	Description	List Price	Factory D & H	Model Number	Description	List Price	Factory D & H
<b>F-85</b>				<b>VISTA CRUISER</b>			
3177	L-6 Sports Coupe.....	\$2497.00	\$149.00	4855	2-Seat .....	\$3346.00	\$196.00
3277	V-8 Sports Coupe.....	2602.00	155.00	4865	3-Seat .....	3480.00	204.00
<b>CUTLASS — L6</b>				<b>DELTA 88</b>			
3535	Station Wagon.....	\$2965.00	\$175.00	5437	Holiday Coupe.....	\$3162.00	\$178.00
3539	Holiday Sedan.....	2774.00	164.00	5439	Holiday Sedan.....	3234.00	182.00
3569	Town Sedan.....	2650.00	157.00	5467	Convertible.....	3459.00	194.00
3577	Sports Coupe—"S".....	2611.00	155.00	5469	Town Sedan.....	3109.00	175.00
3587	Holiday Coupe—"S" .....	2671.00	158.00	<b>DELTA CUSTOM 88</b>			
<b>CUTLASS — V8</b>				6437	Holiday Coupe.....	\$3402.00	\$191.00
3635	Station Wagon.....	\$3070.00	\$180.00	6439	Holiday Sedan.....	3474.00	195.00
3639	Holiday Sedan.....	2879.00	170.00	6469	Town Sedan.....	3314.00	186.00
3669	Town Sedan.....	2755.00	163.00	<b>DELTA 88 ROYALE</b>			
3677	Sports Coupe—"S".....	2716.00	161.00	6647	Holiday Coupe.....	\$3698.00	\$206.00
3687	Holiday Coupe—"S" .....	2776.00	164.00	<b>NINETY-EIGHT</b>			
<b>CUTLASS SUPREME</b>				8439	Holiday Sedan.....	\$4270.00	\$237.00
4239	Holiday Sedan.....	\$3018.00	\$178.00	8457	Holiday Coupe.....	4341.00	240.00
4257	Holiday Coupe.....	2947.00	174.00	8467	Convertible.....	4586.00	253.00
4267	Convertible.....	3122.00	183.00	8469	Town Sedan.....	4146.00	230.00
<b>4-4-2</b>				8639	Luxury Sedan Hardtop.....	4561.00	252.00
4467	Convertible.....	\$3341.00	\$196.00	8669	Luxury Sedan.....	4471.00	247.00
4477	Sports Coupe.....	3100.00	182.00	9487	Toronado.....	\$4685.00	\$258.00
4487	Holiday Coupe.....	3160.00	186.00				

## SECTION II

### MAXIMUM DESTINATION CHARGES

These maximum destination charges for basic 1970 Model Oldsmobile motor vehicles are published in accordance with Terms of Sale Bulletin No. 7. The destination charges applicable to 1970 Model Oldsmobile motor vehicles will be furnished separately to dealer by Oldsmobile, provided, however, that such destination charges, except for motor vehicles shipped to dealers located in the State of Alaska, shall not exceed maximum destination charges of \$162.00 for basic F-85, Cutlass, Cutlass Supreme, 4-4-2 and Vista Cruiser motor vehicles and \$202.00 for all other 1970 Model Oldsmobile motor vehicles.

## SECTION III

### 1970 PASSENGER CAR MODELS AND FACTORY INSTALLED OPTIONS AND ACCESSORIES

## 1970 PASSENGER CAR MODELS

Model Number	Description	Dealer Invoice Amount*	Dealer Price	List Price	Factory D & H	Mfr's. Sgt'd. Dealer NVPC**	Mfr's. Sgt'd. Retail Price***	Desti-nation Charge	Total
<b>F-85</b>									
3177	L-6 Sports Coupe.....	\$2022.57	\$1972.63	\$2497.00	\$149.00	\$30.00	\$2676.00	_____	_____
3277	V-8 Sports Coupe.....	2107.62	2055.58	2602.00	155.00	30.00	2787.00	_____	_____
<b>CUTLASS — L6</b>									
3535	Station Wagon.....	\$2401.65	\$2342.35	\$2965.00	\$175.00	\$30.00	\$3170.00	_____	_____
3539	Holiday Sedan.....	2246.94	2191.46	2774.00	164.00	30.00	2968.00	_____	_____
3569	Town Sedan.....	2146.50	2093.50	2650.00	157.00	30.00	2837.00	_____	_____
3577	Sports Coupe—"S".....	2114.91	2062.69	2611.00	155.00	30.00	2796.00	_____	_____
3587	Holiday Coupe—"S".....	2163.51	2110.09	2671.00	158.00	30.00	2859.00	_____	_____
<b>CUTLASS — V8</b>									
3635	Station Wagon.....	\$2486.70	\$2425.30	\$3070.00	\$180.00	\$30.00	\$3280.00	_____	_____
3639	Holiday Sedan.....	2331.99	2274.41	2879.00	170.00	30.00	3079.00	_____	_____
3669	Town Sedan.....	2231.55	2176.45	2755.00	163.00	30.00	2948.00	_____	_____
3677	Sports Coupe—"S".....	2199.96	2145.64	2716.00	161.00	30.00	2907.00	_____	_____
3687	Holiday Coupe—"S".....	2248.56	2193.04	2776.00	164.00	30.00	2970.00	_____	_____
<b>CUTLASS SUPREME</b>									
4239	Holiday Sedan.....	\$2444.58	\$2384.22	\$3018.00	\$178.00	\$30.00	\$3226.00	_____	_____
4257	Holiday Coupe.....	2387.07	2328.13	2947.00	174.00	30.00	3151.00	_____	_____
4267	Convertible.....	2528.82	2466.38	3122.00	183.00	30.00	3335.00	_____	_____
<b>4-4-2</b>									
4467	Convertible.....	\$2706.21	\$2639.39	\$3341.00	\$196.00	\$30.00	\$3567.00	_____	_____
4477	Sports Coupe.....	2511.00	2449.00	3100.00	182.00	30.00	3312.00	_____	_____
4487	Holiday Coupe.....	2559.60	2496.40	3160.00	186.00	30.00	3376.00	_____	_____
<b>VISTA CRUISER</b>									
4855	2-Seat.....	\$2710.26	\$2643.34	\$3346.00	\$196.00	\$30.00	\$3572.00	_____	_____
4865	3-Seat.....	2818.80	2749.20	3480.00	204.00	30.00	3714.00	_____	_____
<b>DELTA 88</b>									
5437	Holiday Coupe.....	\$2434.74	\$2371.50	\$3162.00	\$178.00	\$55.00	\$3395.00	_____	_____
5439	Holiday Sedan.....	2490.18	2425.50	3234.00	182.00	55.00	3471.00	_____	_____
5467	Convertible.....	2663.43	2594.25	3459.00	194.00	55.00	3708.00	_____	_____
5469	Town Sedan.....	2393.93	2331.75	3109.00	175.00	55.00	3339.00	_____	_____
<b>DELTA CUSTOM 88</b>									
6437	Holiday Coupe.....	\$2619.54	\$2551.50	\$3402.00	\$191.00	\$60.00	\$3653.00	_____	_____
6439	Holiday Sedan.....	2674.98	2605.50	3474.00	195.00	60.00	3729.00	_____	_____
6469	Town Sedan.....	2551.78	2485.50	3314.00	186.00	60.00	3560.00	_____	_____
<b>DELTA 88 ROYALE</b>									
6647	Holiday Coupe.....	\$2847.46	\$2773.50	\$3698.00	\$206.00	\$60.00	\$3964.00	_____	_____
<b>NINETY-EIGHT</b>									
8439	Holiday Sedan.....	\$3287.90	\$3202.50	\$4270.00	\$237.00	\$75.00	\$4582.00	_____	_____
8457	Holiday Coupe.....	3342.57	3255.75	4341.00	240.00	75.00	4656.00	_____	_____
8467	Convertible.....	3531.22	3439.50	4586.00	253.00	75.00	4914.00	_____	_____
8469	Town Sedan.....	3192.42	3109.50	4146.00	230.00	75.00	4451.00	_____	_____
8639	Luxury Sedan Hardtop.....	3511.97	3420.75	4561.00	252.00	75.00	4888.00	_____	_____
8669	Luxury Sedan.....	3442.67	3353.25	4471.00	247.00	75.00	4793.00	_____	_____
9487	Toronado.....	\$3607.45	\$3513.75	\$4685.00	\$258.00	\$80.00	\$5023.00	_____	_____

\*Dealer Invoice Amount includes Holdback Amount retained for Dealer's Account in accordance with Terms of Sale Bulletin.

\*\*Suggested Dealer New Vehicle Preparation Charge.

\*\*\*Manufacturer's Suggested Retail Price does not include state and local taxes, license fees, options or accessories.

\*DEALER INVOICE AMOUNT INCLUDES HOLDBACK AMOUNT RETAINED FOR DEALER'S ACCOUNT IN ACCORDANCE WITH TERMS OF SALE BULLETIN.

**FACTORY INSTALLED OPTIONAL EQUIPMENT & ACCESSORIES  
1970 MODEL PRICES—WHEN INSTALLED BY OLDSMOBILE  
"X" INDICATES AVAILABILITY**

Symbol	DESCRIPTION	Dealer Invoice Amount*	Dealer Price	List Price	Factory Delivery and Handling Charge	Mfr's Suggested Retail Delivered Price
A01	Soft-ray Tinted Windshield and Windows (Includes A02)	\$ 28.86	\$ 28.12	\$ 37.00	\$ 1.97	\$ 38.97
		32.76	31.92	42.00	2.23	44.23
		35.10	34.20	45.00	2.39	47.39
A02	Soft-ray Tinted Windshield	\$ 19.50	\$ 19.00	\$ 25.00	\$ 1.33	\$ 26.33
		21.84	21.28	28.00	1.49	29.49
AA3	Chrome Coated Tinted Roof Glass	\$ 15.60	\$ 15.20	\$ 20.00	\$ 1.06	\$ 21.06
A31	Power Side Windows	\$ 78.00	\$ 76.00	\$100.00	\$ 5.32	\$105.32
		81.90	79.80	105.00	5.59	110.59
A33	Power Tailgate Window	\$ 25.74	\$ 25.08	\$ 33.00	\$ 1.76	\$ 34.76
A39	Deluxe Front and Rear Lap Belt Without A65 With A65 (Including Middle Seat Belts on Bench Seats)	\$ 6.63 7.80 7.80	\$ 6.46 7.60 7.60	\$ 8.50 10.00 10.00	\$ .45 .53 .53	\$ 8.95 10.53 10.53
A41	4-Way Bench Seat Adjuster (4257, 4267, 4467, 4477 and 4487 must have A52 or A65—Bench Seat Option)	\$ 54.60	\$ 53.20	\$ 70.00	\$ 3.72	\$ 73.72
A42	6-Way Power Bench Seat Adjuster (Not available with AM6)	\$ 74.10	\$ 72.20	\$ 95.00	\$ 5.05	\$100.05
		54.60	53.20	70.00	3.72	73.72
A46	4-Way Power Bucket Seat Adjuster L.H. 6647 and 9487 with A51	\$ 54.60	\$ 53.20	\$ 70.00	\$ 3.72	\$ 73.72
		54.60	53.20	70.00	3.72	73.72
AG1	6-Way Power Seat Adjuster (60-40 Seat—Driver Side Only) (Available only with AM6)	\$ 54.60	\$ 53.20	\$ 70.00	\$ 3.72	\$ 73.72
AG2	6-Way Power Seat Adjuster (60-40 Seat—Passenger Side Only) (Must Get AG1 & AM6)	\$ 74.10	\$ 72.20	\$ 95.00	\$ 5.05	\$100.05
A51	Strato Bucket Seats	\$ 50.70	\$ 49.40	\$ 65.00	\$ 3.46	\$ 68.46
		N/C	N/C	N/C	N/C	N/C
A52	Bench Front Seat (Not Available With D55 or W26)	\$ (50.70)	\$ (49.40)	\$ (65.00)	\$ ( 3.46)	\$ (68.46)
A65	Custom Sport Front Seat (N/A With D55 or W26 Equipment)	N/C	N/C	N/C	N/C	N/C

\* STATE AND LOCAL TAXES NOT INCLUDED

( ) indicates credit

F-85 L V 6 8	Curtless L-6	Curtless V-8	Curtless Super- preme	4-4-2	Vista Cruiser	Delta 888	Delta Cruiser 888	Royale	Ninety Eight	Toronado
Sports Coupe	3277									9487
Sports Coupe	3177									8669
										8639
										8469
										8467
										8457
										8439
										6647
										6469
										6439
										6437
										5469
										5467
										5439
										5437
										4865
										4855
										4487
										4477
										4467
										4267
										4257
										4239
										3687
										3677
										3669
										3639
										3635
										3587
										3577
										3569
										3539
										3535
										3277
										3177

Effective September 18, 1969

Section III—Page 3

\*DEALER INVOICE AMOUNT INCLUDES HOLDBACK AMOUNT RETAINED FOR DEALER'S ACCOUNT IN ACCORDANCE WITH TERMS OF SALE BULLETIN.

**FACTORY INSTALLED OPTIONAL EQUIPMENT & ACCESSORIES  
1970 MODEL PRICES—WHEN INSTALLED BY OLDSMOBILE  
"X" INDICATES AVAILABILITY**

Symbol	DESCRIPTION	Dealer Invoice Amount*	Dealer Price	List Price	Factory Delivery and Handling Charge	Mfr's Suggested Retail Delivered Price
AK1	Deluxe Seat Belts & Shoulder Belts (Includes A39 Lap Belts—Front & Rear—Middle Lap Belts on Bench Seats—A85 Shoulder Belts—Front) (Includes Third Seat on 4865)	\$ 10.14	\$ 9.88	\$ 13.00	\$.69	\$ 13.69
	With A52 or A65	10.14	9.88	13.00	.69	13.69
	With A51	8.97	8.74	11.50	.61	12.11
		8.97	8.74	11.50	.61	12.11
		12.48	12.16	16.00	.85	16.85
		10.14	9.88	13.00	.69	13.69
	With A51	8.97	8.74	11.50	.61	12.11
AM6	Divided Front Seat With Dual Controls (N/A With A42)	\$ 58.50	\$ 57.00	\$ 75.00	\$ 3.99	\$ 78.99
A74	Heavy-Duty Front & Rear Seats	\$ 11.31	\$ 11.02	\$ 14.50	\$.77	\$ 15.27
A85	Deluxe Front Shoulder Belts (Must Have A39 Option)	\$ 19.50	\$ 19.00	\$ 25.00	\$ 1.33	\$ 26.33
A90	Power Trunk Lid Latch	\$ 10.92	\$ 10.64	\$ 14.00	\$.74	\$ 14.74
		10.92	10.64	14.00	.74	14.74
AS1	Front Shoulder Belts (Not Available With A39 or AS4)	\$ 17.16	\$ 16.72	\$ 22.00	\$ 1.17	\$ 23.17
		17.16	16.72	22.00	1.17	23.17
AS4	Deluxe Rear Shoulder Belts (Includes Third Seat on 4865) (Must Have A39 or AK1)	\$ 19.50	\$ 19.00	\$ 25.00	\$ 1.33	\$ 26.33
		39.00	38.00	50.00	2.66	52.66
		19.50	19.00	25.00	1.33	26.33
AS5	Rear Shoulder Belts (Includes Third Seat on 4865) (Not Available With A39, A85 or AK1)	\$ 17.16	\$ 16.72	\$ 22.00	\$ 1.17	\$ 23.17
		34.32	33.44	44.00	2.34	46.34
		17.16	16.72	22.00	1.17	23.17
AU3	Power Door Locks	\$ 33.15	\$ 32.30	\$ 42.50	\$ 2.26	\$ 44.76
		50.70	49.40	65.00	3.46	68.46
		33.15	32.30	42.50	2.26	44.76
		50.70	49.40	65.00	3.46	68.46
AU5	Power Door Locks and Front Seat Backrest Lock Releases	\$ 50.70	\$ 49.40	\$ 65.00	\$ 3.46	\$ 68.46
		50.70	49.40	65.00	3.46	68.46
B07	Highway Patrol Suspension System	\$ 13.18	\$ 12.84	\$ 16.90	\$.90	\$ 17.80
B30	Wall to Wall Floor Carpeting	\$ 14.04	\$ 13.68	\$ 18.00	\$.96	\$ 18.96

\* STATE AND LOCAL TAXES NOT INCLUDED

Effective September 18, 1969

Section III—Page 4

\*DEALER INVOICE AMOUNT INCLUDES HOLDBACK AMOUNT RETAINED FOR DEALER'S ACCOUNT IN ACCORDANCE WITH TERMS OF SALE BULLETIN.

**FACTORY INSTALLED OPTIONAL EQUIPMENT & ACCESSORIES  
1970 MODEL PRICES—WHEN INSTALLED BY OLDSMOBILE  
“X” INDICATES AVAILABILITY**

Symbol	DESCRIPTION	Dealer Invoice Amount*	Dealer Price	List Price	Factory Delivery and Handling Charge	Mir's* Suggested Retail Delivered Price	F-85	L-6	V-8	Curtless L-6	Curtless V-8	Cutlass Supreme 4-4-2	Vista Cruiser	Delta 88	Delta Custom 88	Royale	Ninety Eight	Toro.	
B32	Auxiliary Front Floor Mats	\$ 5.46	\$ 5.32	\$ 7.00	\$ .37	\$ 7.37	X												
		5.46	5.32	7.00	.37	7.37													
		7.41	7.22	9.50	.51	10.01													
B33	Auxiliary Rear Floor Mats	\$ 5.31	\$ 5.17	\$ 6.80	\$ .36	\$ 7.16	X												
		5.31	5.17	6.80	.36	7.16													
		5.46	5.32	7.00	.37	7.37													
BC1	Heavy-Duty Black Vinyl Front & Rear Floor Covering	\$ 7.80	\$ 7.60	\$ 10.00	\$ .53	\$ 10.53	X												
B36	Heavy-Duty Rubber Trunk Floor Mat	\$ 5.85	\$ 5.70	\$ 7.50	\$ .40	\$ 7.90													
B39	Deep-Pile Cargo Area Floor Carpeting	\$ 11.70	\$ 11.40	\$ 15.00	\$ .80	\$ 15.80													
B50	Foam-Padded Front Seat Cushion (Included in Y67)	\$ 7.02	\$ 6.84	\$ 9.00	\$ .48	\$ 9.48	X												
		8.62	8.40	11.05	.59	11.64													
BC1	Wood Grain Vinyl Instrument Panel Trim	\$ 7.80	\$ 7.60	\$ 10.00	\$ .53	\$ 10.53	X												
B80	Chrome Roof Drip Moulding (Included in C08 option on 3569, 3577, 3587, 3669, 3677, 3687 and 5469) (Must Have B85 on 3577, 3587, 3677, and 3687)	\$ 10.14	\$ 9.88	\$ 13.00	\$ .69	\$ 13.69	X												
		10.14	9.88	13.00	.69	13.69													
B84	Bodyguard Side Moulding (Not Available With W31 Option)	\$ 9.36	\$ 9.12	\$ 12.00	\$ .64	\$ 12.64													
B85	Chrome Side Window Sill Mouldings (Must Have B80 on 3577, 3587, 3677, 3687 and 5437) (Included in C08 Option on 4257, 5469 and 6469)	\$ 14.43	\$ 14.06	\$ 18.50	\$ .98	\$ 19.48													
		14.43	14.06	18.50	.98	19.48													
B90	Chrome Side Window Frame Mouldings	\$ 15.60	\$ 15.20	\$ 20.00	\$ 1.06	\$ 21.06	X												
		15.60	15.20	20.00	1.06	21.06													
B93	Chrome Door Edge Guard Mouldings	\$ 3.90	\$ 3.80	\$ 5.00	\$ .27	\$ 5.27	X												
		6.63	6.46	8.50	.45	8.95													
		3.90	3.80	5.00	.27	5.27													
		6.63	6.46	8.50	.45	8.95													
C08	Vinyl Rooftop Covering (Includes B80 Option on 3100, 3200, 3569, 3577, 3587, 3669, 3677, 3687 and 5469) (Includes B85 Option on 4257, 5469 and 6469)	\$ 75.66	\$ 73.72	\$ 97.00	\$ 5.16	\$102.16	X												
		91.26	88.92	117.00	6.22	123.22													
		102.96	100.32	132.00	7.02	139.02													
		95.16	92.72	122.00	6.49	128.49													
C28	Drop or Swing Tailgate	\$ 31.20	\$ 30.40	\$ 40.00	\$ 2.13	\$ 42.13													

\* STATE AND LOCAL TAXES NOT INCLUDED

Effective September 18, 1969

Section III—Page 5



\*DEALER INVOICE AMOUNT INCLUDES HOLDBACK AMOUNT RETAINED FOR DEALER'S ACCOUNT IN ACCORDANCE WITH TERMS OF SALE BULLETIN.

**FACTORY INSTALLED OPTIONAL EQUIPMENT & ACCESSORIES  
1970 MODEL PRICES—WHEN INSTALLED BY OLDSMOBILE  
"X" INDICATES AVAILABILITY**

Symbol	DESCRIPTION	Dealer Invoice Amount*	Dealer Price	List Price	Factory Delivery and Handling Charge	Mr's ★ Suggested Retail Delivered Price
G51	Heavy-Duty Rear Springs (Available Only With M40 Option) (Nor Avail. With G66 Option). (Recommended for Trailer Hauling—Class I—1000-2000# Weight if Hauling is Continuous) (Required for Trailer Hauling—Class II—2000-3500# Weight)	\$ 2.73	\$ 2.66	\$ 3.50	\$ .19	\$ 3.69
G66	Superlift Rear Shock Absorbers (Available only with M40 on 4400 Series) (Not Available with FG2 or B07 Options) (Recommended for Trailer Hauling—Class I—1000-2000# Weight)	\$ 31.20	\$ 30.40	\$ 40.00	\$ 2.13	\$ 42.13
		31.20	30.40	40.00	2.13	42.13
G80	Anti-Spin Rear Axle	\$ 31.20	\$ 30.40	\$ 40.00	\$ 2.13	\$ 42.13
		34.52	33.63	44.25	2.35	46.60
G88	Heavy-Duty Performance Axle Package 3.91 to 1 (4400 Series Must Have W30) (G80 & V01 Required)	N/C	N/C	N/C	N/C	N/C
G92	Heavy-Duty Performance Axle Package 3.42 to 1 (G80 & V02 Required)	N/C	N/C	N/C	N/C	N/C
J50	Pedal Ease Power Brakes (N/A With JL2 Option) (N/A With W31)	\$ 30.81	\$ 30.02	\$ 39.50	\$ 2.10	\$ 41.60
J55	Heavy-Duty Power With Front Disc Brakes (Available Only for Police Usage) (Not Available With 3-Speed SM Transmission)	\$ 70.20	\$ 68.40	\$ 90.00	\$ 4.79	\$ 94.79
		11.70	11.40	15.00	.80	15.80
JL2	Power With Front Disc Brakes (Mandatory With L31 Option on 4800) (Mandatory With W32 With W27) (Mandatory With L33 Option on 3635) (Nor Available With J55 Option) (Not Available With 3-Speed SM Transmission on 5400, 6400 and 6600) (Power Steering Mandatory on 5400, 6400 and 6600) (Not Available With W31) (Mandatory With W30 With C60)					
	Without W30	\$ 47.58	\$ 46.36	\$ 61.00	\$ 3.25	\$ 64.25
	With W30	30.81	30.02	39.50	2.10	41.60
		58.50	57.00	75.00	3.99	78.99
K30	Automatic Cruise Control (Available Only With Automatic Transmission) (Power Brakes Also Required on 5400, 6400 and 6600)	\$ 42.90	\$ 41.80	\$ 55.00	\$ 2.93	\$ 57.93
		46.80	45.60	60.00	3.19	63.19
K81	60 Ampere Delcotron (Available Only for Police Usage) (N/A With C49 Option)	\$ 15.60	\$ 15.20	\$ 20.00	\$ 1.06	\$ 21.06
L30	Rocket "455" V-8 Regular Fuel Engine (2 Bbl.)	\$ 89.70	\$ 87.40	\$ 115.00	\$ 6.12	\$ 121.12
L31	Rocket "455" V-8 H.C. Engine (4 Bbl.) (IL2 and M40 Mandatory) (N10 Option Not Available) (Dual Exhaust System Included)	\$ 139.62	\$ 136.04	\$ 179.00	\$ 9.52	\$ 188.52
		124.80	121.60	160.00	8.51	168.51
		35.10	34.20	45.00	2.39	47.39

P-85 L V 6 8	Cutlass L-6	Cutlass V-8	Cutlass Super- preme	4-4-2	Vista Cruiser	Delta 88	Delta Cus- tom 88	Royale	Ninety Eight	Torono do
	Sports Coupe	3277								9487
	Sports Coupe	3177								Luxury Sedan 8669
										Luxury Sed. Hardtop 8639
										Town Sedan 8469
										Convertible 8467
										Holiday Coupe 8457
										Holiday Sedan 8439
										Holiday Coupe 6647
										Town Sedan 6469
										Holiday Sedan 6439
										Holiday Coupe 6437
										Town Sedan 5469
										Convertible 5467
										Holiday Sedan 5439
										Holiday Coupe 5437
										3-Seat 4865
										2-Seat 4855
										Holiday Coupe 4487
										Sports Coupe 4477
										Convertible 4467
										Convertible 4267
										Holiday Coupe 4257
										Holiday Sedan 4239
										Holiday Coupe-"S" 3687
										Sports Coupe-"S" 3677
										Town Sedan 3669
										Holiday Sedan 3639
										Station Wagon 3635
										Holiday Coupe-"S" 3587
										Sports Coupe-"S" 3577
										Town Sedan 3569
										Holiday Sedan 3539
										Station Wagon 3535
										Sports Coupe 3277
										Sports Coupe 3177





\*DEALER INVOICE AMOUNT INCLUDES HOLDBACK AMOUNT RETAINED FOR DEALER'S ACCOUNT IN ACCORDANCE WITH TERMS OF SALE BULLETIN.

**FACTORY INSTALLED OPTIONAL EQUIPMENT & ACCESSORIES  
1970 MODEL PRICES—WHEN INSTALLED BY OLDSMOBILE  
"X" INDICATES AVAILABILITY**

Symbol	DESCRIPTION	Dealer Invoice Amount*	Dealer Price	List Price	Factory Delivery and Handling Charge	Mfr's Suggested Retail Delivered Price
P26	White Stripe Fiberglass—Belted Tires					
	F78 x 14	\$ 21.06	\$ 20.52	\$ 27.00	\$ 1.44	\$ 28.44
	G78 x 14 (3535 & 3635 Without C28)	22.62	22.04	29.00	1.54	30.54
	H78 x 14 (3535 & 3635 With C28)	24.96	24.32	32.00	1.70	33.70
	H78 x 15	24.96	24.32	32.00	1.70	33.70
	J78 x 15	27.30	26.60	35.00	1.86	36.86
PC2	Wheels 14 x 7" Wide Rim (Included in FE2 Option Unless N66 or P05 is Ordered)	\$ 3.90	\$ 3.80	\$ 5.00	\$ .27	\$ 5.27
PK5	Tire—G70 x 14 Wide Oval Blackwall With Raised White Letters (Mandatory With W30 or W31 Option)	\$ 76.44	\$ 74.48	\$ 98.00	\$ 5.21	\$103.21
		65.52	63.84	84.00	4.47	88.47
		19.50	19.00	25.00	1.33	26.33
PX8	Tire—G70 x 14 Wide Oval—White Stripe	\$ 56.94	\$ 55.48	\$ 73.00	\$ 3.88	\$ 76.88
		46.02	44.84	59.00	3.14	62.14
T44	Interior Operated Hood Lock	\$ 7.80	\$ 7.60	\$ 10.00	\$ .53	\$ 10.53
		7.80	7.60	10.00	.53	10.53
T60	Special Battery (Not Available With 455 cu. in. Engine)	\$ 5.46	\$ 5.32	\$ 7.00	\$ .37	\$ 7.37
T81	Headlamp Off Delay Control. (N/A With U21)	\$ 9.36	\$ 9.12	\$ 12.00	\$ .64	\$ 12.64
		9.36	9.12	12.00	.64	12.64
		9.36	9.12	12.00	.64	12.64
T87	Cornering Lamp (Not Available With SM Column Shift)	\$ 27.30	\$ 26.60	\$ 35.00	\$ 1.86	\$ 36.86
U11	Certified Police Speedometer (Available Only for Police Usage)	\$ 2.34	\$ 2.28	\$ 3.00	\$ .16	\$ 3.16
U15	Safety Sentinel (Not Available With U11)	\$ 8.58	\$ 8.36	\$ 11.00	\$ .59	\$ 11.59
		8.58	8.36	11.00	.59	11.59
U21	Rocket Rally Pac (N/A With T81)	\$ 62.40	\$ 60.80	\$ 80.00	\$ 4.26	\$ 84.26
U35	Electric Clock (Not Available With U21 Option)	\$ 12.48	\$ 12.16	\$ 16.00	\$ .85	\$ 16.85
		12.48	12.16	16.00	.85	16.85
U57	Stereo Tape Player (Includes Rear Seat Speaker—Except With U58) (Must Get U58 or U63 Option)	\$ 99.06	\$ 96.52	\$127.00	\$ 6.76	\$133.76
	Without U58	86.58	84.36	111.00	5.91	116.91
	With U58	99.06	96.52	127.00	6.76	133.76
	Without U58	86.58	84.36	111.00	5.91	116.91

\* STATE AND LOCAL TAXES NOT INCLUDED

Effective September 18, 1969

Section III—Page 10





\*DEALER INVOICE AMOUNT INCLUDES HOLDBACK AMOUNT RETAINED FOR DEALER'S ACCOUNT IN ACCORDANCE WITH TERMS OF SALE BULLETIN.

**FACTORY INSTALLED OPTIONAL EQUIPMENT & ACCESSORIES  
1970 MODEL PRICES—WHEN INSTALLED BY OLDSMOBILE  
"X" INDICATES AVAILABILITY**

Symbol	DESCRIPTION	Dealer Invoice Amount*	Dealer Price	List Price	Factory Delivery and Handling Charge	Mfr's* Suggested Retail Delivered Price
Y60	Visor Vanity Mirror, Luggage Compartment Lamp, Underhood Lamp, Glove Box Lamp, Ash Tray Lamp, Sail Panel Lamps, Mirror and Front Compartment Lamp, Instrument Panel Control Lighting, Courtesy Lamp and Map Lamp	\$ 25.43	\$ 24.78	\$ 32.60	\$ 1.73	\$ 34.33
Y60	Visor Vanity Mirror, Luggage Compartment Lamp, Underhood Lamp, Glove Box Lamp, Mirror and Front Compartment Lamp	\$ 10.61	\$ 10.34	\$ 13.60	\$ .72	\$ 14.32
Y60	Visor Vanity Mirror, Luggage Compartment Lamp, Underhood Lamp, Glove Box Lamp, Mirror and Front Compartment Lamp, Courtesy Lamps and Map Lamps	\$ 17.16	\$ 16.72	\$ 22.00	\$ 1.17	\$ 23.17
Y60	Visor Vanity Mirror, Luggage Compartment Lamp, Underhood Lamp, Glove Box Lamp, Mirror and Front Compartment Lamp	\$ 10.92	\$ 10.64	\$ 14.00	\$ .74	\$ 14.74
Y60	Visor Vanity Mirror, Luggage Compartment Lamp, Underhood Lamp, Mirror and Front Compartment Lamp (9487 Without Y69)	\$ 8.73	\$ 8.51	\$ 11.20	\$ .60	\$ 11.80
Y60	Combination Courtesy and Warning Door Lamp, Visor Vanity Mirror, Luggage Compartment Lamp, Underhood Lamp and Front Compartment Lamp (9487 With Y69)	\$ 18.48	\$ 18.01	\$ 23.70	\$ 1.26	\$ 24.96
Y62	Special Paint, Solid Color—Standard Quality	\$ 61.62	\$ 60.04	\$ 79.00	\$ 4.20	\$ 83.20
Y66	Special Paint—Two Tone—Standard Quality	61.62	60.04	79.00	4.20	83.20
Y67	Interior Equipment—Deluxe Foam Front Seat Cushion, Rear Quarter Lamps and Brite Door Armrest Backplates	\$ 84.63	\$ 82.46	\$ 108.50	\$ 5.77	\$ 114.27
Y67	Foam Front Seat Cushion, Rear Door Dome Lamp Switches, Rear Quarter Lamps and Brite Armrest Backplates—Front and Rear	77.61	75.62	99.50	5.29	104.79
Y67	Foam Front Seat Cushion, Chrome Rear Quarter Armrest Ash Trays with Lighters and Brite Door Armrest Backplates	92.82	90.44	119.00	6.33	125.33
Y67	Foam Front Seat Cushion and Brite Door Armrest Backplates	\$ 16.38	\$ 15.96	\$ 21.00	\$ 1.12	\$ 22.12
Y67	Foam Front Seat Cushion, Rear Door Dome Lamp Switches, Rear Quarter Lamps and Brite Armrest Backplates—Front and Rear	\$ 22.62	\$ 22.04	\$ 29.00	\$ 1.54	\$ 30.54
Y67	Foam Front Seat Cushion, Chrome Rear Quarter Armrest Ash Trays with Lighters and Brite Door Armrest Backplates	\$ 24.96	\$ 24.32	\$ 32.00	\$ 1.70	\$ 33.70
Y67	Foam Front Seat Cushion and Brite Arm Rest Backplates—Front and Rear	\$ 14.82	\$ 14.44	\$ 19.00	\$ 1.01	\$ 20.01
Y69	Interior—Custom	\$ 128.70	\$ 125.40	\$ 165.00	\$ 8.78	\$ 173.78
Y70	Paint Stripes—Body Side (Includes Deck Lid Stripe on 8400 & 8600) (Not Available With W34 Option)	\$ 7.80	\$ 7.60	\$ 10.00	\$ .53	\$ 10.53
		11.70	11.40	15.00	.80	15.80

	E-85 L V 6 8	Carlass L-6	Carlass V-8	Carlass Super- preme	4-4-2	Vista Cruiser	Delta 88	Delta Custom 88	Royale	Ninety Eight	Torono
Sports Coupe	3277										
Sports Coupe	3177										
Station Wagon	3535										
Holiday Sedan	3539										
Town Sedan	3569										
Sports Coupe-"S"	3577										
Holiday Coupe-"S"	3587										
Station Wagon	3635										
Holiday Sedan	3639										
Town Sedan	3669										
Sports Coupe-"S"	3677										
Holiday Coupe-"S"	3687										
Holiday Sedan	4239			X							
Holiday Coupe	4257										
Convertible	4267										
Convertible	4467										
Sports Coupe	4477										
Holiday Coupe	4487										
2-Seat	4855										
3-Seat	4865										
Holiday Coupe	5437										
Holiday Sedan	5439										
Convertible	5467										
Town Sedan	5469										
Holiday Coupe	6437										
Holiday Sedan	6439										
Town Sedan	6469										
Holiday Coupe	6647										
Holiday Coupe	9487										



OLDSMOBILE DIVISION  
GENERAL MOTORS CORPORATION  
1970 FACTORY INSTALLED OPTIONAL EQUIPMENT

AUGUST 12, 1969  
Supersedes 7-7-69

MODELS & BODY STYLES - F85 SERIES

Standard Engine

33100 Standard L6 Engine  
77 - Club Coupe

250 Cu. In. L6 - 1 Bbl.  
Low Compression

33200 Standard V-8 Engine  
77 - Club Coupe

350 Cu. In. V8 - 2 Bbl.  
Low Compression

33500 Cutlass L6 Engine  
35 - Station Wagon - 2 Seat  
39 - Four Door Hardtop Sedan  
69 - Four Door Sedan  
77 - Club Coupe  
87 - Hardtop Coupe

250 Cu. In. L6 - 1 Bbl.  
Low Compression

33600 Cutlass V-8 Engine  
35 - Station Wagon - 2 Seat  
39 - Four Door Hardtop Sedan  
69 - Four Door Sedan  
77 - Club Coupe  
87 - Hardtop Coupe

350 Cu. In. V8 - 2 Bbl.  
Low Compression

33636 - Station Wagon - 2-Seat - Cutlass L6 or  
V-8 Engine. For Scheduling Purposes  
Only. Represents Olds Group 35C28 -  
\*Double Action Tail Gate\*

OLDSMOBILE DIVISION  
 GENERAL MOTORS CORPORATION  
 1970 FACTORY INSTALLED OPTIONAL EQUIPMENT

MODELS & BODY STYLES - F85 SERIES (Continued)

		<u>Standard Engine</u>
<u>34200 Cutlass Supreme V-8 Engine</u>		
39	- Four Door Hardtop Sedan	350 Cu. In. V8 - 4 Bbl. High Compression
57	- Hardtop Coupe	
67	- Convertible	
<u>34400 442 Models V-8 Engine</u>		
67	- Convertible	455 Cu. In. V8 - 4 Bbl. High Compression
77	- Club Coupe	
87	- Hardtop Coupe	
<u>34800 Vista Cruisers V-8 Engine</u>		
55	- Station Wagon - 2 Seat *Extended*	350 Cu. In. V8 - 2 Bbl. Low Compression
65	- Station Wagon - 3 Seat *Extended*	

34856 - Station Wagon - 2 Seat \*Extended\*  
 34866 - Station Wagon - 3 Seat \*Extended\*  
 For Scheduling Purposes Only -  
 Represents Olds Group 35C28 -  
 \*Double Action Tail Gate\*

CODE

- X - Available As Shown
- N - Not Available
- S - Included As Standard Equipment
- # - Shipped With Car \*In Trunk Compartment\*

- A43 TINTED ROOF GLASS - CHROME COATED
- A01 TINTED BODY GLASS \*INCLUDING WINDSHIELD\*
- A02 TINTED WINDSHIELD GLASS
- A31 ELECTRIC 4-WINDOW LIFTS
- A33 ELECTRIC REAR WINDOW \*TAILGATE\*
- A39 DELUXE LAP BELTS - FRONT & REAR  
\* Including Middle Lap Belts on Bench Seats \*
- A41 ELECTRIC 4-WAY SEAT ADJUSTER \*BENCH SEAT\*  
@ Available Only with A52 or A65 Option.
- A46 ELECTRIC 4-WAY SEAT ADJUSTER  
\* Bucket Seat L.H. Only \*  
\* Not Available with A52 or A65 Option \*
- A51 BUCKET SEAT OPTION - STRATO
- A52 BENCH SEAT OPTION - CONVENTIONAL  
\* Not Available with D55 or W26 Equipment \*
- A65 BENCH SEAT OPTION - NOTCH BACK  
\* Not Available with D55 or W26 Equipment \*
- A85 FRONT SHOULDER BELTS - DELUXE TYPE  
\* Must get A39 Option \*

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
N	N	N N NNN	N N NNN	NNN	NNN	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
N	N	X X XXX	X X XXX	XXX	XXX	X X
N	N	X N NNN	X N NNN	NNN	NNN	X X
N	N	N N NNN	N N NNN	NNX	XNN	N N
X	X	X X XXX	X X XXX	X@@	@@@	X X
N	N	N N NXX	N N NXX	NXX	XXX	N N
N	N	N N NXX	N N NXX	NSS	SSS	N N
S	S	S S SSS	S S SSS	NNN	NXX	S S
N	N	N N NNN	N N NNN	SXX	XNN	N N
N	N	N N NNN	N N NNN	NNX	XNN	N N

A90 ELECTRIC TRUNK LID LATCH

AK1 DELUXE LAP BELT OPTION

- 1. A39 Lap Belts - Front & Rear
  - \* Includes Middle Lap Belts on Bench Seats \*
  - \* Includes Third Seat on 34865 \*
- 2. A85 Shoulder Belts - Front

AS1 FRONT SHOULDER BELTS - STANDARD TYPE

- \* Not Available with A39 or AS4 \*

AS4 REAR SHOULDER BELTS - DELUXE TYPE

- \* Includes Third Seat on 34865 \*
- \* Must get A39 or AK1 Options \*

AS5 REAR SHOULDER BELTS - STANDARD TYPE

- \* Includes Third Seat on 34865 \*
- \* Not Available with A39, A85 or AK1 \*

AU3 LOCK - SIDE DOOR ELECTRIC \*FRONT A/O REAR\*

- \* Not Available with AU5 \*

AU5 LOCK - SEAT BACK & SIDE DOOR ELECTRIC

- \* Not Available with AU3 \*

B30 FLOOR CARPET \*FRONT & REAR\*

B32 # AUXILIARY FRONT FLOOR MATS

B33 # AUXILIARY REAR FLOOR MATS

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
X	X	N X XXX	N X XXX	XXX	XXX	N N
X	X	X X XXX	X X XXX	XXN	NXX	X X
S	S	S S SSS	S S SSS	SSX	XSS	S S
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	N N NXX	N N NXX	NXX	XXX	N N
X	X	S S SSS	S S SSS	SSS	SSS	S S
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X

B39 CARPETED LOAD FLOOR

B50 FOAM FRONT SEAT CUSHION

B61 WOOD GRAIN INSTRUMENT PANEL

B80 EXTERIOR DRIP SCALP MOULDINGS

\* Included in C08 Option on 33569, 77, 87 and 33669, 77, 87 \*

\* Must get B85 on 33577, 87 and 33677, 87 \*

B84 EXTERIOR BODY SIDE & FENDER MOULDINGS - VINYL INSERT

\* Not Available with W31 or W45 Option \*

B85 EXTERIOR BELT MOULDING

\* Must get B80 on 33577, 87 & 33677, 87 \*

\* Included in C08 Option on 34257 \*

B90 CHROME DOOR WINDOW FRAMES

B93 DOOR EDGE GUARD

C08 ROOF TOP COVERING

\* Includes B80 Option on 33100, 33200, 33569, 77, 87 & 33669, 77, 87 \*

\* Includes B85 Option on 34257 \*

\* Not Available with W45 \*

C28 DOUBLE ACTION TAIL GATE

\* To be scheduled as Fisher Body Styles

33636, 34856 or 34866 \*

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
N	N	X N NNN	X N NNN	NNN	NNN	X X
X	X	X X XSS	X X XSS	SSS	SSS	S S
X	X	X X XXX	X X XXX	SSS	SSS	S S
N	N	X S XXX	X S XXX	SSN	NSS	S S
N	N	X X XXX	X X XXX	NNN	NNN	N N
N	N	N N NXX	N N NXX	NXN	NXX	N N
X	X	S N SXN	S N SXN	NNN	NSN	S S
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	N X XXX	N X XXX	XXN	NXX	N N
N	N	X N NNN	X N NNN	NNN	NNN	X X

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
X	X	N X XXX	N X XXX	XXN	NXX	N N
N	N	X N NNN	X N NNN	NNN	NNN	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
N	N	N N NXX	N N NXX	SSS	SSS	S S
N	N	N N NXN	N N NXN	NNN	NSN	N N
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	N N NXX	N N NXX	NXX	XXX	N N
N	N	N N NXX	N N NXX	NXX	XXX	N N
X	X	X X XXX	X X XXX	XXN	NXX	X X
X	X	X X XXX	X X XXX	XXX	NNN	X X

C50 DEFOGGER - REAR WINDOW

C51 DEFLECTOR PACKAGE - AIR

C60 AIR CONDITIONING

- \* See Axle Chart for Exception Usage \*
- \* Not Available with V01 or V02 \*
- \* Not Available with W31 \*

D15 DELUXE ARM RESTS

- Brite Door Arm Rest Backplates
- Brite Quarter Arm Rest Backplates

D33 REMOTE CONTROL OUTSIDE MIRROR

- \* Not Available with W45 or Y74 \*

D35 REAR VIEW MIRRORS-OUTSIDE - STYLED SPORTS (L.H. REMOTE)

- \* Mandatory with W30, W31, W45 & Y74 Options \*

D55 FRONT COMPARTMENT CONSOLE

- \* Not Available with Column Shift \*
- \* Bucket Seats Mandatory with this Option \*

D99 TWO TONE PAINT

- \* Not Available with W45 \*

F41 SUSPENSION SYSTEM-FRONT & REAR-HEAVY DUTY

- \* Special Suspension System for Strenuous Service. Recommended for Trailer Hauling, Canadian & Overseas Export and continuous Heavy Trunk Loads and where majority of driving is on Secondary and Rural Roads.

\* Includes Front & Rear Springs, Front Stabilizer Bar and Heavy Duty Firm Ride Control Shocks \*

\* G66 Superlift Shocks Available \*

\* Not Available with W45 \*

**FE2 442 SUSPENSION PACKAGE**  
 \* Includes Springs, Shocks, Stabilizer Shafts, Rear Lower Control Arms & Wheels \*  
 \* Not Available with FG2 Option \*  
 \* G66 Available Only with M38 or M40 Option \*  
 \* N66 or P05 Wheel Option Available \*  
 \* PC2 Wheel 14 X 7JJ Included Except with W45 or Y74\*  
 \* Mandatory with W31 and W45 Options \*

**FG2 SHOCK ABSORBERS - FRONT & REAR - HEAVY DUTY FIRM RIDE CONTROL**  
 \* Recommended for considerable Secondary and Rural Road Driving \*  
 \* Not Available with FE2, G66 or W45 Options \*  
 \* Included in F41 \*

**G51 HEAVY DUTY REAR SPRINGS**  
 \* Available Only with M40 Option \*  
 \* Not Available with G66 Option \*  
 \* Recommended for Trailer Hauling - Class I - 1000-2000# Wgt. if Trailer Hauling is continuous \*  
 \* Required for Trailer Hauling - Class II - 2000-3500# Wgt. \*

**G66 SUPERLIFT REAR SHOCK ABSORBERS**  
 @ Available Only with M40 on 34400 Series.  
 \* Not Available with FG2 Option \*  
 \* Recommended for Trailer Hauling - Class I - 1000-2000# Wgt. \*

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
N	X	N N NNN	N N NXX	NXX	NNN	N N
X	X	X X XXX	X X XXX	XXX	NNN	X X
N	N	N N NNN	N N NNN	NNN	XXX	N N
X	X	X X XXX	X X XXX	XXX	@@@	X X

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
X	X	X X XXX	X X XXX	XXX	XXX	X X
N	X	N N NNN	X X XXX	XXX	@@@	N N
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
N	X	N N NNN	X X XXX	XXX	XXX	N N

- G80 LIMITED SLIP TYPE DIFFERENTIAL  
 \* Anti-Spin Axle \*  
 \* Mandatory when 3.42 or 3.91 Ratios are used \*
- G88 PERFORMANCE REAR AXLE - 3.91 RATIO  
 @ Available Only with W30 Option.  
 \* For Usage refer to Axle Chart 404524 \*  
 \* G80 Mandatory \*  
 \* Must get V01 Heavy Duty Radiator Option \*  
 \* Not Available with C60 or Y72 Options \*  
 \* N10 Mandatory on 34200 Series with 350 Cu. In. 4-Barrel Engine \*  
 \* N10 Mandatory on 33200, 33600 Series with L74 Opt.\*
- G90 PERFORMANCE REAR AXLE - 3.08 RATIO  
 \* For Usage refer to Axle Chart 404524 \*  
 \* Recommended for Trailer Hauling - Class I - 1000-2000# Weight \*  
 \* Not Available with W45 \*
- G91 PERFORMANCE REAR AXLE - 3.23 RATIO  
 \* For Usage refer to Axle Chart 404524 \*  
 \* Recommended for Trailer Hauling - Class II - 2000-3500# Weight \*
- G92 PERFORMANCE REAR AXLE - 3.42 RATIO  
 \* For Usage refer to Axle Chart 404524 \*  
 \* G80 Mandatory \*  
 \* Must get V02 Heavy Duty Radiator Option \*  
 \* Not Available with C60 or Y72 Options \*  
 \* N10 Mandatory on 34200 Series with 350 Cu. In. 4-Barrel Engine \*  
 \* N10 Mandatory on 33200, 33600 Series with L74 Opt.\*

**G95 PLAINS AXLE RATIO - 2.78 RATIO**

- \* For Usage refer to Axle Chart 404524 \*
- \* Not Available with W45 \*

**G96 PLAINS AXLE RATIO - 2.56 RATIO**

- \* For Usage refer to Axle Chart 404524 \*
- \* Not Available with SM or FS Transmission \*
- \* Not Available with W45 \*

**J50 POWER BRAKES**

- # After Jan. 1, 1970 J50 will not be available on 3535, 3635 Models.
- \* Not Available with JL2 Option \*
- \* Not Available with W31 \*

**JL2 FRONT DISC BRAKES - POWER**

- @ As of Jan. 1, 1970 JL2 must be ordered on 3535, 3635, 4855, 65 Models.
- \* Mandatory with W30 with C60 \*
- \* Not Available with W31 \*
- \* Mandatory with W32 with W27 \*
- \* Mandatory with W45 with W27 \*

**K30 AUTOMATIC THROTTLE CONTROL**

- \* Available Only with Automatic Transmission \*

**L31 ENGINE OPTION**

- \* 455 Cu. In. - V-8 H.C. - 4-Barrel \*
- \* M40 Mandatory \*
- \* N10 Option Not Available \*
- \* Dual Exhaust System Included \*
- \* Mandatory & Available Only with Y79 unless W32 is ordered on 4257, 67 Models \*

31	32	35	36	42	44	48
7	7	3 3 678 5 9 977	3 3 678 5 9 977	356 977	678 777	5 6 5 5
X	X	X X XXX	X X XXX	XXX	XXX	X X
N	X	N N NNN	X X XXX	XXX	XXX	X X
X	X	# X XXX	# X XXX	XXX	NNN	N N
X	X	@ X XXX	@ X XXX	XXX	XXX	@ @
N	X	N N NNN	X X XXX	XXX	XXX	X X
N	N	N N NNN	N N NNN	NXX	NNN	X X

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
N	S	N N NNN	S S SSS	XXX	NNN	S S
N	X	N N NNN	X X XXX	SSS	NNN	X X
N	X	N N NNN	N N NXX	NXX	SSS	N N
N	X	N N NNN	N N NXX	NXX	NNN	N N

L65 ENGINE OPTION

- \* 350 Cu. In. - V-8 L.C. - 2-Barrel \*
- \* 2.56 Axle Ratio Standard on 34200 with Automatic Transmission \*
- \* Not Available with N10, Y74 or Y79 on 34200 \*

L74 ENGINE OPTION

- \* 350 Cu. In. - V-8 H.C. - 4-Barrel \*
- \* N10 Mandatory with 3.42 & 3.91 Axle Ratios \*
- \* Not Available with W31 \*
- \* Mandatory with W45 \*

M14 MANUAL TRANSMISSION - 3-SPEED FULLY SYNCHRONIZED - FLOOR SHIFT - HEAVY DUTY

- \* Standard with W31 Option \*
- \* V01 Mandatory If 3.91 Axle is used \*
- \* V02 Mandatory If 3.42 Axle is used \*

M20 MANUAL TRANSMISSION - 4-SPEED FULLY SYNCHRONIZED - FLOOR SHIFT

- \* Not Available with 3.42 or 3.91 Axles If C60 or Y72 is ordered \*
- \* V01 Mandatory If 3.91 Axle is used \*
- \* V02 Mandatory If 3.42 Axle is used \*
- \* Available Only with 350 Cu. In. Engines \*

- M21 MANUAL TRANSMISSION - 4-SPEED - CLOSE RATIO  
FULLY SYNCHRONIZED - FLOOR SHIFT  
\* V01 Mandatory with 3.91 Axle \*
- \* V02 Mandatory with 3.42 Axle \*
- \* Mandatory with W30 If M40 is not ordered \*
- \* N10 Mandatory on 34200 Series with 350 Cu. In. 4-Barrel Engine \*
- \* N10 Mandatory on 33200, 33600 Series with L74 Option \*
- \* Available with C60 on 4400 Series Only - Except with W30 \*
- \* Y72 Available with M21 with C60 Only \*
- M38 TURBO-HYDRAMATIC TRANSMISSION  
\* 3-Speed Torque Converter \*
- \* V01 Mandatory If 3.91 Axle is used \*
- \* V02 Mandatory If 3.42 Axle is used \*
- \* Available with 250 or 350 Cu. In. Engines Only \*
- M40 TURBO-HYDRAMATIC TRANSMISSION  
\* 3-Speed Torque Converter \*
- \* Mandatory with W30 if Auto. Trans. is ordered \*
- \* Mandatory with L31 Option \*
- \* Mandatory with W32 Option \*
- \* V01 Mandatory If 3.91 Axle is used \*
- \* V02 Mandatory If 3.42 Axle is used \*
- \* Available Only with 455 Cu. In. Engine \*
- M55 AUXILIARY OIL COOLER - AUTOMATIC TRANSMISSION  
\* Recommended for Trailer Hauling \*

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
N	X	N N NNN	N N NXX	NXX	XXX	N N
X	X	X X XXX	X X XXX	XXX	NNN	X X
N	N	N N NNN	N N NNN	NXX	XXX	X X
N	X	N N NNN	X X XXX	XXX	XXX	X X

N10 DUAL EXHAUST SYSTEM  
 \* Available Only when L74 Option is ordered - Except 33677, 87 \*  
 \* Available with All 350 Cu. In. Engines on 33677, 87 \*  
 \* Not Available with L31, L65 or W32 Options \*  
 \* Mandatory with W31 and W45 Option \*  
 \* Mandatory on 34200 with 350 Cu. In. 4-Barrel Engine & 3.42 or 3.91 Axle \*  
 \* Mandatory on 33200, 33600 with L74 and 3.42 or 3.91 Axles \*

N30 DELUXE STEERING WHEEL  
 \* Not Available with W45 \*  
 N33 STEERING COLUMN ASSEMBLY - TILT-AWAY  
 \* Not Available on SM Jobs with Column Shift \*

N34 STEERING WHEEL - CUSTOM SPORT  
 \* Mandatory with W45 \*

N42 DELUXE STEERING WHEEL - RIM BLOWER  
 \* Not Available with W45 \*

N47 POWER STEERING - VARIABLE RATIO

N66 WHEEL EQUIPMENT - CUSTOM SPORT  
 \* 14 Inch Wheel, Painted Spider, Capped Wheel Nuts, Ornament, Bezel & Trim Ring \*  
 \* Not Available with W45 or Y74 \*

N95 COVER - SIMULATED WIRE WHEEL  
 \* Not Available with W45 or Y74 \*

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
N	X	N N NNN	N X XXX	XXX	NNN	N N
X	X	S S SSS	S S SSS	SSS	SSS	S S
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
N	X	N N NNN	N X XXX	XXX	XXX	N N
X	X	X X XXX	X X XXX	XXX	XXX	X X

NA9 EVAPORATIVE EMISSION SYSTEM

- \* Mandatory with & Available on California Cars \*
- \* Available on selected Zone Company Cars \*

P01 # WHEEL DISCS

- \* Mandatory with Y79 Option \*
- \* Not Available with W45 or Y74 \*

P02 # WHEEL DISCS \*DELUXE\*

- \* Not Available with W45 or Y74 \*

P05 WHEEL EQUIPMENT - CUSTOM TRIM

- \* 14 Inch Wheel, Painted Spider, Capped Wheel Nuts, Ornament & Rim \*
- \* Not Available with W45 or Y74 \*

P06 WHEEL TRIM RING

- @ Available Only with FE2, PC2 or W45 on these models
- \* Not Available with Y74 \*

P26 WHITE WALL TIRES - STANDARD SIZE

- \* Not Available with W45 or Y74 \*

PC2 WHEEL OPTION - 14 X 7JJ

- \* Included in FE2 Option unless N66, P05 or W45 is ordered \*
- \* Not Available with Y74 \*

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
N	X	N N NNN	N X XXX	XXX	XXX	N N
N	@	N N NNN	N @ @@@	@@@	XXX	N N
X	X	X X XXX	X X XXX	XXX	NNN	X X
N	X	N N NNN	N X XXX	XXX	SSS	N N

PK5 TIRE - G70 X 14 WIDE OVAL - BLACK WALL WITH RAISED WHITE LETTERS

\* Mandatory with W30 or W31 Option \*

\* Not Available with Y74 \*

PX8 TIRE - G70 X 14 WIDE OVAL - WHITE STRIPE

\* Not Available with Y74 \*

T44 INTERIOR OPERATED HOOD LOCK

T60 BATTERY - SPECIAL

\* Not Available with 455 Cu. In. Engine \*

T81 HEAD LAMP OFF-DELAY CONTROL

\* Not Available with U21 \*

U15 SAFETY SENTINEL

\* Not Available with 97U18 or 98U18 \*

U21 INSTRUMENT CLUSTER - RALLY PACK

\* Not Available with T81 \*

U35 ELECTRIC CLOCK

\* Not Available with U21 Option \*

U57 TAPE PLAYER - STEREO

\* Includes Rear Seat Speaker - Except with U58 \*

\* Must get U58 or U63 Option \*

U58 STEREOPHONIC RADIO \*AM-FM\*

\* Includes Rear Seat Speaker \*

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
X	X	N N NXX	N N NXX	NXX	XXX	N N
X	X	N N NXX	N N NXX	NXX	SSS	N N
X	X	X X XXX	X X XXX	XXX	XXX	X X
N	X	N N NNN	X X XXX	XXX	NNN	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
N	X	N N NNN	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X

31	32	35	36	42	44	43
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
N	X	N N NNN	X X XXX	XXX	XXX	N N
N	X	N N NNN	X X XXX	XXX	XXX	N N
N	N	X N NNN	X N NNN	NNN	NNN	X X
N	N	X N NNN	X N NNN	NNN	NNN	X X
N	#	N N NNN	N N N@@	NN%	XXX	N N
N	N	N N NXX	N N NXX	NXX	XXX	N N

U63 DELUXE RADIO

U80 REAR SEAT SPEAKER

\* Included in U57 or U58 Options \*

U89 WIRING HARNESS - CAR TRAILER

V01 HEAVY DUTY COOLING

\* Mandatory & Available Only with 3.91 Axle \*

\* Not Available with C60 or Y72 Options \*

V02 RADIATOR - HEAVY DUTY

\* Mandatory & Available Only with 3.42 Axle \*

\* Not Available with C60 or Y72 Options \*

V55 LUGGAGE CARRIER

V56 LOCK & TRIM - LUGGAGE LOCKER

W25 FORCE AIR INDUCTION SYSTEM

# Mandatory and Available Only with W45 on 3277 Model.

@ Available Only with L74 Option.

\* Included in W30 & W31 Options \*

\* Not Available with Y73 Options \*

\* Includes Special Hood Paint Scheme \*

% Mandatory & Available Only with Y74 on 4267 Model.

\* Mandatory with Y74 on 4467 Model \*

W26 FRONT COMPARTMENT CONSOLE - DUAL GATE SHIFTER

\* Available Only with Auto. Trans. Floor Shift \*

\* Bucket Seats Mandatory with this Option \*

W27 ALUMINUM REAR AXLE CARRIER & COVER  
 \* Available Only with W30, W31, W32 or W45 Options \*  
 \* G80 Limited Slip Differential Mandatory \*

W30 INDUCTION SYSTEM - CARBURETOR OUTSIDE AIR  
 - AVAILABLE AS SPECIAL ORDER ONLY -  
 Included In W30  
 455 Cu. In. 4-Barrel H.C. Engine with Selected Parts.  
 Manual Disc Brakes.  
 W25 Force Air Induction System.  
 Special Body Side Paint Stripe.  
 Special Hood Paint Scheme.

Mandatory With W30  
 For Axle Usage refer to Chart 404524.  
 D35 Outside Rear View Mirrors.  
 G80 Limited Slip Type Differential with 3.42 or  
 3.91 Ratio.  
 M21 or M40 Transmission.  
 PK5 Tire - Wide Oval with White Letters.  
 V01 Heavy Duty Radiator Option with 3.91 Axle Ratio.  
 V02 Heavy Duty Radiator Option with 3.42 Axle Ratio.

Not Available With W30  
 T60, Y72, Y73 or Y74.  
 Delete Standard Body Side Paint Stripe.

JL2 is Available Only with M40 Transmission.  
 C60 is Available with W30 Option with M40 Trans.,  
 JL2 Brakes and 3.23 Axle Ratio.

31	32	35	36	42	44	45
7	7	3 3 676	3 3 678	356	678	45
7	7	5 9 977	5 9 977	977	777	5 5
N	X	N N NNN	N N NXX	NXX	XXX	N N
N	N	N N NNN	N N NNN	NNN	XXX	N N

**W31 INDUCTION SYSTEM - CARBURETOR OUTSIDE AIR**  
 - AVAILABLE AS SPECIAL ORDER ONLY -

Included In W31

- 350 Cu. In. 4-Barrel H.C. Engine with Selected Parts.
- Manual Disc Brakes.
- W25 Force Air Induction System.
- Special Body Side Paint Stripe.
- Special Hood Paint Scheme.

Mandatory With W31

- For Axle Usage refer to Chart 404524.
- D35 Outside Rear View Mirrors.
- FE2 442 Suspension System.
- G80 Limited Slip Type Differential.
- M14, M20, M21 or M38 Transmission.
- N10 Dual Exhaust System.
- PK5 Tire - Wide Oval with White Letters.
- V01 Heavy Duty Radiator Option with 3.91 Axle Ratio.

Not Available With W31

- C60, J50, JL2, L74, L90, W45, Y72 or Y73.
- Delete Front Fender Side Moulding and Ornament,  
 Door & Rear Quarter Side Mouldings from the  
 33677, 87 Models.

**W32 PERFORMANCE ENGINE PACKAGE**

- \* 455 Cu. In. 4-Bbl. H.C. Engine \*
- \* Includes Dual Exhaust System \*
- \* N10 Option Not Available \*
- \* M40 Transmission Mandatory \*
- \* Available Only with Y79 \*
- \* JL2 Mandatory with W27 \*

**W35 REAR DECK LID AIR SPOILER**

31	32	35	36	42	44	48
7	7	3 3 6 7 8	3 3 6 7 8	3 5 6	6 7 8	5 6
7	7	5 9 9 7 7	5 9 9 7 7	9 7 7	7 7 7	5 5
N	X	N N N N N	N N N X X	N N N	N N N	N N
N	N	N N N N N	N N N N N	N X X	N N N	N N
X	X	N N N X X	N N N X X	N N N	N X X	N N

W45 RALLYE 350 OPTION

Included In W45

Cutlass Script on 3277

Rallye 350 Decal

Bumpers - 442 Rear Bumper - Front & Rear Bumpers Painted Body Color.

Body & Sheet Metal Paint - Sebring Yellow with Special Black Body and Fender Paint Stripes.

Tires - G70 X 14 Wide Oval Blackwalls

Wheels - Super Stock with Special Paint.

Tail Lamps with Side Liners painted Black.

Mandatory With W45

For Axle Usage refer to Chart 404524.

D35 - Styled Sports Outside Rear View Mirror

FE2 - 442 Suspension System (Except Wheels)

L74 - 350 Cu. In. 4 Barrel H.C. Engine

N10 - Dual Exhaust System

N34 - Custom Sport Steering Wheel

W25 - Force Air Induction System

JL2 - Mandatory Only when W27 is ordered.

Not Available With W45

B84, C08, D33, D99, F41, FG2, G90, G95, G96, N30,

N42, N66, N95, P01, P02, P05, P26, W31 & Y73.

Delete Fender, Body Side & Deck Lid Edge Mouldings from 3677-87, "F85" Front Fender Script from 3277.

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
N	X	N N NNN	N N NXX	NNN	NNN	N N

**Y60 ACCESSORY GROUP PACKAGE**

1. Visor Vanity Mirror
  2. Luggage Compartment Lamp
  3. Underhood Lamp
  4. Glove Box Lamp
  5. Ash Tray Lamp
  6. \*C87\* Sail Panel Lamps
  7. \*UF1\* Mirror & Front Compartment Lamp
  8. Instrument Panel Control Lighting
  9. \*U29\* Courtesy Lamps & Map Lamp
- \* Standard on 33677, 87, 34257, 34477, 87  
 SM & FS when D55 is ordered \*  
 \* Rear Door Jamb Switches & Wiring Included  
 in All 4-Door Styles \*

**Y72 HEAVY DUTY ENGINE COOLING & GENERATOR PACKAGE**

- \* Not Available with 3.42 or 3.91 Axle Ratios \*
- \* Not Available with V01 or V02 Options \*
- \* Not Available with W30 or W31 \*
- \* Available with M21 with C60 Only \*

**Y73 HOOD PAINT STRIPE**

- \* Not Available with W25, W30, W31 or Y74 Options \*

31	32	35	36	42	44	45
7	7	3 3 678 5 9 977	3 3 678 5 9 977	356 977	678 777	5 6 5 5
X X X X X X N X X X	X X X X X N X X X X	X X XXX N X XXX X X XXX X X XXX X X XXX N N NNN X X XXX X X XXX X X XXX	X X XXX N X XXX X X XXX X X XXX X X XXX N N NNN X X XXX X X XXX X X XXX	XXX XXX XXX XXX XXS XXN XXX XXS XXX	XXX XXX XXX XXX SXX NNN XXX SXX SXX	X X N N X X X X X X N N X X X X X X
X	X	X X XXX X X XXX N N NNN X X XXX X X XXX	X X XXX X X XXX N N NNN X X XXX X X XXX	XXX XXX	XXX XXX	X X X X
N	N	N N NXX N N NXX	N N NXX N N NXX	NNN	XXX	N N

Y74 INDIANAPOLIS PACE CAR OPTION

Included In Y74

Wheels - Super Stock with Special Color, Capped Wheel Nuts, Ornament, Bezels & Trim Rings. Indianapolis Pace Car Decals. Painted Rocker, Front Fender & Rear Quarter (Black). Tires - Special G70 X 14 Blackwall with Raised White Letters.

Mandatory With Y74

D35 - Styled Sports Outside Rear View Mirror.  
W25 - Force Air Induction System.

Not Available with Y74

D33, L31, L65, N66, N95, P01, P02, P05, P06, P26, PC2, PK5, PX8, W30, W32, Y73, Y79.

Delete - the 4267 Model is to have the Body Side & Fender Mouldings deleted. The Partial Wheel Lip Mouldings are to be replaced by the Full Wheel Lip Mouldings from the 33600 Series. Front Fender & Rear Quarter Side Markers are to be replaced by the 33600 Series Markers.

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
N	N	N N NNN	N N NNN	NNX	XNN	N N

**Y79 CUTLASS SUPREME PERFORMANCE PACKAGE**

Mandatory With Y79  
 L31 Engine Option (455 Cu. In. 4-Bbl. H.C. V-8)  
 Mandatory unless W32 Engine Option (455 Cu. In. 4-Bbl. H.C. V-8) is ordered.  
 (Includes Dual Exhaust with Special Outlets)  
 M40 Transmission.  
 P01 Wheel Disc - Unless P02, P05, P37, N66 or N95 is ordered.

Included In Y79  
 For Axle Usage refer to Chart 404524.  
 Special Fender Ornament.  
 442 Rear Bumpers.

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
N	N	N N NNN	N N NNN	NXX	NNN	N N



SECTION 98 SINGLE UNIT PACK CHASSIS \*EXPORT OPTION\*

A39 Lap Belts - Front & Rear - Deluxe

\* Must get AS6 \*

A48 Lap Belts - Front & Rear - Delete

\* Must get AS6 \*

AR1 Head Restraint - Delete

AS6 Shoulder Belts - Front - Delete

L90 Engine - Export

\* Not Available with SM or FS Transmission on 34800 \*

P16 Tire - 4-Ply White Wall - Nylon

P32 Tire - Spare - Delete

T74 Head Lamps - LH Rule of Road - Export

U18 Speedometer - Export, Kilometer

V60 Tire Pump - Foot - Export

V78 Plate - Certificate of Compliance - Delete

31	32	35	36	42	44	48
7	7	3 3 678	3 3 678	356	678	5 6
7	7	5 9 977	5 9 977	977	777	5 5
X	X	X X XXX	X X XXX	XXX	NXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	NXX	X X
X	X	X X XXX	X X XXX	XXX	NNN	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X
X	X	X X XXX	X X XXX	XXX	XXX	X X















MISCELLANEOUS TRIM PARTS

SEAT / SHOULDER BELTS: (STANDARD TYPE) OLDS I. B. M. CODE 7

WEBBING COLOR	RETRACTOR COLOR	BUCKLE COLOR	TRIM COLOR USAGE (SALES NAMES)
BLACK	BLACK	BLACK	BLACK, IVORY, SANDALWOOD, SADDLE
DK. GREEN	DK. GREEN	DK. GREEN	GREEN
DK. BLUE	DK. BLUE	DK. BLUE	BLUE
MED. GOLD	DK. GOLD	MED. GOLD	GOLD

SEAT / SHOULDER BELTS: (DELUXE TYPE) OLDS I. B. M. CODE 7

WEBBING COLOR	RETRACTOR COLOR	BUCKLE FINISH	TRIM COLOR USAGE (SALES NAMES)
BLACK	BLACK	SATIN/BRITE	BLACK, IVORY
DK. GREEN	DK. GREEN	SATIN/BRITE	GREEN
DK. BLUE	DK. BLUE	SATIN/BRITE	BLUE
MED. GOLD	DK. GOLD	SATIN/BRITE	GOLD
SANDALWOOD	DK. BROWN	SATIN/BRITE	SANDALWOOD
DK. BROWN	DK. BROWN	SATIN/BRITE	SADDLE

TRUNK TRIM (OLDS I. B. M. CODE 5):

TRUNK LINING	TRUNK (K. B. ) BOARD	USAGE
TURQ. /BLACK NON-WOVEN RAYON ON FOAM (1-T-1769)	TURQ. /BLACK RANDOM PRINT (967-T-4269)	ALL MODELS

AUXILIARY FLOOR MATS: (OLDS I. B. M. CODE 4):

COLOR	TRIM COLOR USAGE
BLACK	BLACK, IVORY
DK. GREEN	GREEN
DK. BLUE	BLUE
DK. GOLD	GOLD
DK. BROWN	SANDALWOOD, SADDLE

CONSOLES: (OLDS I. B. M. CODE 4):

TRIM COLOR	PAINTED BODY	MADRID GRAIN MAP CASE APPLIQUE (VINYL LAMINATE)
BLACK	BLACK W30A-848	BLACK 3200-T
GREEN	DK. GREEN MET. W30A-3970	DK. GREEN MET. 5158-T
BLUE	MED. BLUE MET. W30A-3981	MED. BLUE MET. 5153-T
GOLD	MED. GOLD MET. W30A-3922	MED. GOLD MET. 5159-T
(A) SADDLE	DK. BROWN W30A-3985	DK. BROWN 5156-T
(C) (B) IVORY	BLACK W30A-848	BLACK 3200-T

SHEET 7

TITLE CHART - PAINT & TRIM SPECIFICATIONS DATE MARCH 20, 1969 DR BY C. SPITZLEY CHECKED BY J. J. JONES APR 1 1969	FIRST USED 1970	MANUAL SEC. NO. 0	PAGE 42	PART NO. 406477
REVISION 1 MADRID CONSOLE FOR IVORY TRIM CLARIFIED 2 1968 B IVORY CONSOLE ADA 3 1-27-69 A IVORY CONSOLE ELIMINATED		SERIES A		







**OLDSMOBILE DIVISION**  
GENERAL MOTORS CORPORATION  
LANSING 21, MICHIGAN

**1. VEHICLE IDENTIFICATION NUMBER**

ON EMBOSSED PLATE LOCATED ON THE BODY LEFT HAND UPPER INSTRUMENT PANEL. SEE SECTION "0", CHART 405187, PAGE 20 FOR VEHICLE PLATE STARTING SERIAL NUMBERS.

**2. ENGINE UNIT NUMBER: (FOR MANUFACTURING AND SERVICE USE)**

V-8 ENGINES:

UNIT NUMBER IS STAMPED ON THE ENGINE OIL FILL TUBE. THE ENGINE CODE TAPE IS INSTALLED DIRECTLY ABOVE THE ENGINE NUMBER. THE COMPLETE ENGINE NUMBER SHALL CONSIST OF THE ENGINE CODE FOLLOWED BY THE SEVEN DIGIT NUMBER.

STARTING ENGINE UNIT NUMBERS: SEE SECTION 6-1, CHART 405775, PAGE 80  
EXAMPLE: QAO000000001

L-6 ENGINES:

THERE IS NO L-6 ENGINE UNIT NUMBER. A DATE CODE IS STAMPED ON A PAD ON THE RIGHT HAND SIDE OF THE CYLINDER BLOCK TO THE REAR OF THE DISTRIBUTOR.

EXAMPLES: F0204VA, F1112VB

"F" WILL DESIGNATE FLINT MOTOR PLANT. THE FIRST TWO (2) DIGITS DESIGNATE THE MONTH AND THE SECOND TWO (2) DIGITS DESIGNATE THE DAY THE UNIT WAS PRODUCED (0207 = FEBRUARY 4, 1112 = NOVEMBER 12.) THE LAST TWO (2) LETTERS DESIGNATE THE TYPE OF ENGINE.

VB = SMT WITH C60 OR Y72  
VJ = SMT EXPORT ENGINE

VF = AUTO. TRANSMISSION WITH C60 OR Y72  
VK = AUTO. TRANSMISSION EXPORT ENGINE

**3. TRANSMISSION UNIT NUMBER: (FOR MANUFACTURING AND SERVICE USE)**

MANUAL TRANSMISSION:

DEPENDING ON THE TYPE OF 3-SPEED OR 4-SPEED MANUAL TRANSMISSION, THE DATE CODE AND SERIAL NUMBER WILL BE AS FOLLOWS:

STANDARD SMT - DATE CODE STAMPED ON LEFT HAND SIDE ON BOSS BELOW THE SIDE COVER.

EXAMPLE: S0508 IS = SAGINAW TRANSMISSION PLANT, 0 = 1970, S = NOVEMBER, 05 = 5TH DAY

M0C11 (MUNCIE TRANSMISSION PLANT, 0 = 1970, C = MARCH, 11 = 11TH DAY)

MONTH CODES FOR THE ABOVE ARE AS FOLLOWS:

A = JANUARY E = MAY P = SEPTEMBER  
B = FEBRUARY H = JUNE R = OCTOBER  
C = MARCH K = JULY S = NOVEMBER  
D = APRIL M = AUGUST T = DECEMBER

1" HIGH CODE LETTERS TO ALSO APPEAR ON THE R.H. SIDE OF THE CASE.

M14 HEAVY DUTY MANUAL 3-SPEED TRANSMISSION - SERIAL PLATE LOCATED ON THE R.H. SIDE OF THE CASE.

EXAMPLE: HEGAF (MODEL CODE)

10001 (SERIAL NUMBERS - CONSECUTIVE STARTING WITH 10001.)

2" HIGH CODE LETTERS DB TO ALSO APPEAR ON R.H. SIDE OF THE EXTENSION.

M20 AND M21 MANUAL 4-SPEED TRANSMISSION - DATE CODE STAMPED ON THE REAR R.H. SIDE OF CASE, OUTBOARD OF THE REAR FACE FLANGE.

EXAMPLE: P0R03 (P = MUNCIE TRANSMISSION PLANT, 0 = 1970, R = OCTOBER, 03 = 3RD DAY.)

MONTH CODES SAME AS FOR STANDARD SMT.

1" HIGH CODE LETTERS TO ALSO APPEAR ON THE R.H. SIDE OF THE CASE.

TURBO HYDRA-MATIC 350 TRANSMISSION YEAR, MODEL AND DATE CODE INFORMATION IS STAMPED ON THE BAND SERVO COVER WHICH IS LOCATED ON THE R.H. SIDE OF THE TRANSMISSION. THIS INFORMATION CONSISTS OF TWO DIGITS FOR THE MODEL YEAR, TWO LETTERS FOR THE MODEL CODE, THREE DIGITS TO INDICATE THE DAY OF PRODUCTION THAT THE TRANSMISSION WAS BUILT AND N OR D TO INDICATE NIGHT OR DAY SHIFT.

TURBO HYDRA-MATIC 400 TRANSMISSION SERIAL NUMBER IS STAMPED ON A PLATE LOCATED ON THE RIGHT HAND SIDE OF THE CONVERTER HOUSING.

EXAMPLES: 700G1001, 700L1001, ETC.

FOR MODEL CODE AND TRANSMISSION USAGE, SEE SECTION "7", CHART 405690, PAGE 98.

**4. REAR AXLE ASSEMBLY NUMBERS (FOR MANUFACTURING AND SERVICE USE)**

A. DATE CODE IS STAMPED ON THE CARRIER COVER AT TOP. MONTH IS CODED AND ACTUAL NUMBER IS USED FOR THE DAY BUILT.

A = JANUARY E = MAY K = SEPTEMBER  
B = FEBRUARY G = JUNE L = OCTOBER  
C = MARCH H = JULY M = NOVEMBER  
D = APRIL J = AUGUST N = DECEMBER

EXAMPLE: AXLE BUILT OCTOBER 10 WOULD BE STAMPED L10.

B. RATIO CODE IS STAMPED ON THE REAR OF THE R.H. AXLE TUBE ADJACENT TO THE CARRIER. SEE SECTION 4, CHART 404524, PAGE 93 FOR CODES AND RATIO.

**5. PROTECTIVE NUMBERS:**

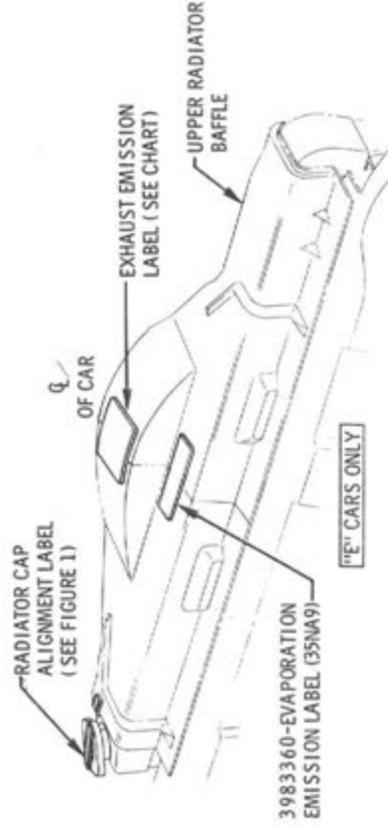
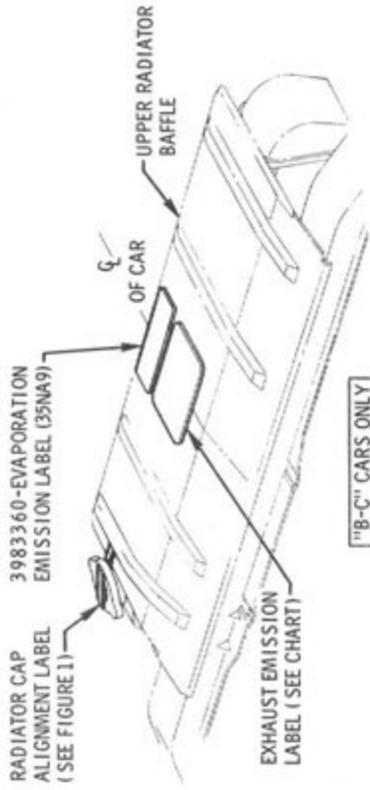
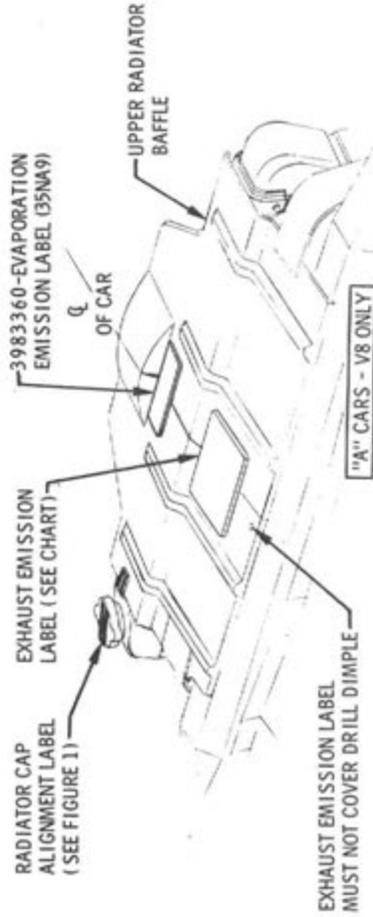
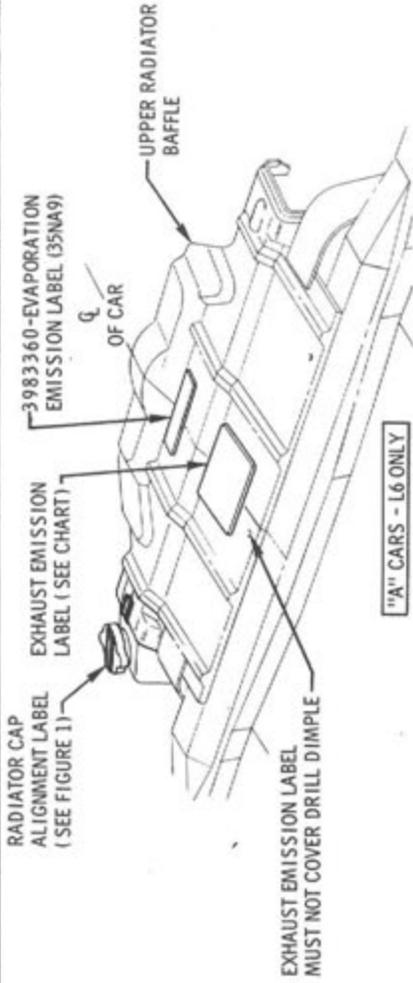
A. THE LAST EIGHT (8) SYMBOLS OF THE VEHICLE NUMBER ARE STAMPED AT SEVERAL LOCATIONS ON EVERY CAR.

LOCATIONS OF THIS NUMBER MAY BE OBTAINED BY CONTACTING EITHER OF THE FOLLOWING OFFICES: PRODUCTION MANAGER OR STANDARDS ENGINEER  
LANSING, MICHIGAN

B. IN ADDITION TO THESE CONFIDENTIAL NUMBERS, EACH VEHICLE ENGINE AND TRANSMISSION MUST BE STAMPED WITH A DERIVATIVE OF THE VEHICLE IDENTIFICATION NUMBER. THIS NUMBER OMMITS THE SERIES AND BODY STYLE FROM THE VEHICLE IDENTIFICATION NUMBER AS FOLLOWS:

VEHICLE IDENTIFICATION NUMBER = 336690M100001  
ENGINE AND TRANSMISSION PROTECTIVE NUMBER = 30M100001  
SEE SECTION "0", CHART 404411-2-3, PAGE 116 FOR LOCATION OF EACH COMPONENT

TITLE		CHART - VEHICLE IDENTIFICATION	
DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	PAGE
JUNE 25, 1969	1970	0	22
DR. BY BOB HOLT	CHECKED BY	SERIES	PART NO.
		A	404411
APPR.	APPR.	DR. DC.	APPR.
REVISION	DATE	SYM	



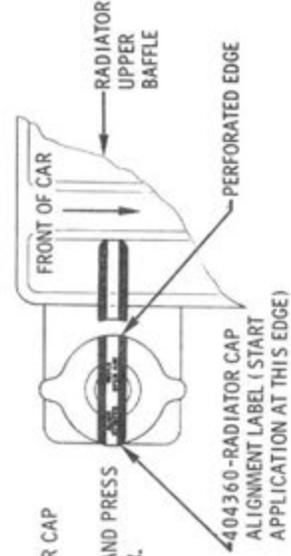
EXHAUST EMISSION LABEL					
PART NO.	PROD. CODE	ENGINE CODE	PART NO.	PROD. CODE	ENGINE CODE
408816	SA	TP-TQ-UN-UO	408825	SI	QD-QX
408817	SB	VB	408826	SJ	QN-QP
408818	SC	VF	408827	SK	US-UT
408819	SD	UC-UD-UJ	408828	SL	UV-UW
408820	SE	TU	408829	SM	TV-TW-UL
408822	SF	QB			
408823	SG	TT	408831	SO	TC-TD-QA-QJ
408824	SH	TL-OI	408832	SP	TS

ATTACH LABEL SO THAT IT CAN BE READ FROM FRONT OF CAR. BE SURE AREA IS CLEAN OF GREASE & DIRT BEFORE ATTACHING LABEL.

MANDATORY PROCEDURE

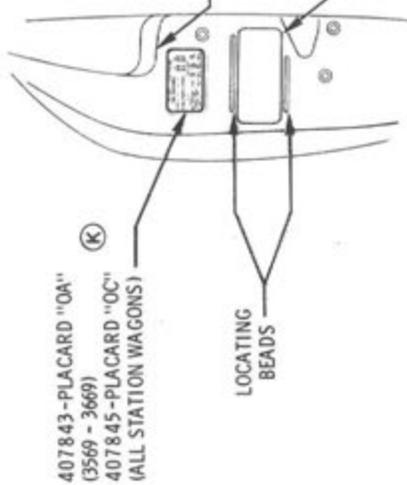
1. FULLY TIGHTEN CAP.
2. APPLY LABEL ACROSS RADIATOR CAP AND UPPER BAFFLE.
3. BREAK LABEL AT PERFORATION AND PRESS LABEL EDGE DOWN ON RADIATOR.

TYPICAL APPLICATION OF RADIATOR CAP ALIGNMENT LABEL



TITLE LABELS

DATE	3-2-70	REVISION	408830 REMOVED	DR. (C)	APPL.	DR. (C)	APPL.
CHECKED	P. J. MCKESSY	DATE	APRIL 11, 1969	FIRST USED	1970	OLDSMOBILE PRODUCT INFORMATION MANUAL	MARUAL SEC. 0
DATE	APR. 11, 1969	REV. C13	13A	SERIES	A-B-C-E	PART NO.	404411-2-3
PAGE	108						



407843-PLACARD "OA"  
(3569 - 3669)  
407845-PLACARD "OC"  
(ALL STATION WAGONS)

LOCATING  
BEADS

PLACARD MUST  
NOT BEND OVER  
THIS EDGE

★ CERTIFICATION  
LABEL ASM

★ CERTIFICATION ★  
LABEL ASM

407843-PLACARD "OA"  
(3177, 3277, 3577, 3677)  
407844-PLACARD "OB"  
(4477)

PLACARD MUST  
NOT BEND OVER  
THIS EDGE

AFFIX USING  
UPPER EDGE  
OF BEAD AS  
GUIDE

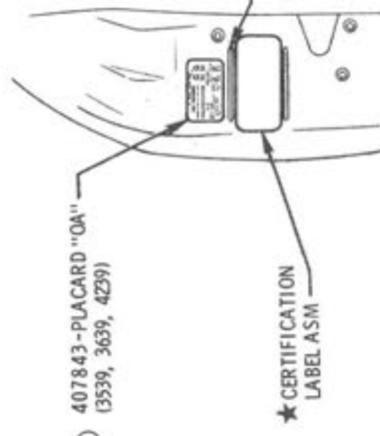
★ CERTIFICATION  
LABEL ASM

407843-PLACARD "OA"  
(3587, 3687) (4257, 4267)  
EXC. WITH 35L31/35W32)  
407844-PLACARD "OB"  
(4467, 4487) (4257, 4267  
WITH 35L31/35W32)

F-85  
FOUR DOOR SEDANS  
AND STATION WAGONS

F-85  
CLUB COUPES

F-85  
HARDTOP COUPES  
AND CONVERTIBLES

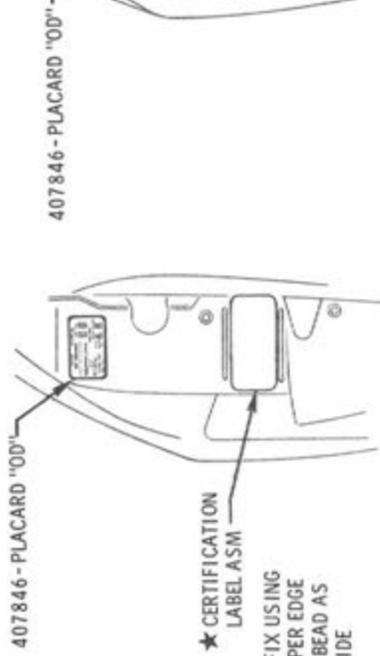


407843-PLACARD "OA"  
(3559, 3659, 4239)

★ CERTIFICATION  
LABEL ASM

AFFIX USING  
UPPER EDGE  
OF BEAD AS  
GUIDE

★ CERTIFICATION  
LABEL ASM



407846-PLACARD "OD"

★ CERTIFICATION  
LABEL ASM

AFFIX USING  
UPPER EDGE  
OF BEAD AS  
GUIDE

88 AND 98  
4 DOOR HARDTOPS  
AND SEDANS



407846-PLACARD "OD"

★ CERTIFICATION  
LABEL ASM

CERTIFICATION ★  
LABEL ASM

88 AND 98  
HARDTOP COUPE  
AND CONVERTIBLE

AFFIX PLACARD  
USING THIS BEND  
AS A GUIDE.

VIEW A

TORONADO

REMOVE BACKING PAPER & DOUBLE  
ROLL PLACARD ON FACE OF L. H. FRONT  
INNER PANEL IN AREA AS SHOWN WITH  
12 LB. MINIMUM FORCE ON A FISHER  
FS111 RUBBER ROLLER OR EQUIVALENT.

PLACARD MUST BE HORIZONTAL AND ON  
A FLAT SURFACE FOR ITS ENTIRE AREA  
(EXCEPT E CAR)

★ CERTIFICATION LABEL ASM CONSISTS OF:  
3975433-LABEL-VEHICLE CERTIFICATION (EXC. 97V78, 98V78).  
3983908-OVERLAY-VEHICLE CERTIFICATION (EXC. 97V78, 98V78).

DATE	BY	REVISION	TITLE	DATE	APPROVED	APPROVED
3-5-70	K4	35L33 REMOVED	TIRE PRESSURE PLACARD AND CERTIFICATION LABEL	11/19/68	P. LOCATELLI	
1/20-68	J	REVISED & REDRAWN		1970		
10-14-68	H	407457 ADDED				
10-14-68	G	35W32 ADDED				

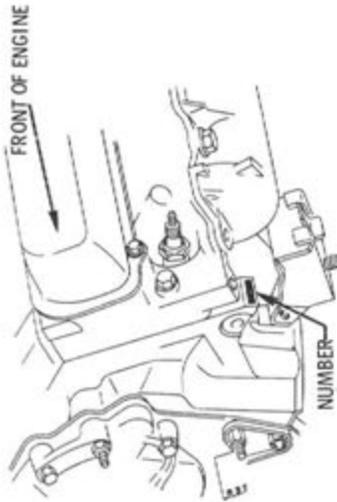
DATE	BY	REVISION	TITLE	DATE	APPROVED	APPROVED
11/19/68	P. LOCATELLI		TIRE PRESSURE PLACARD AND CERTIFICATION LABEL	1970		
1970						
49X-3224						

OLDSMOBILE PRODUCT  
INFORMATION MANUAL

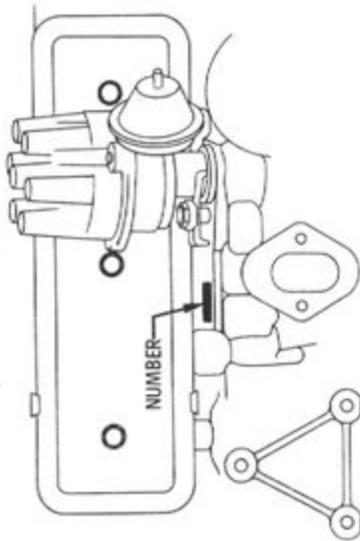
MANUAL SEC. 0 PAGE 110

SERIES A-B-C-E

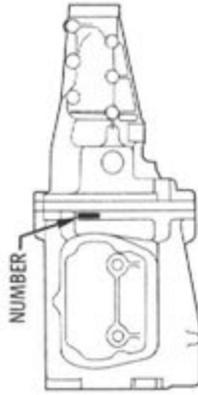
PART NO. 404411-2-3



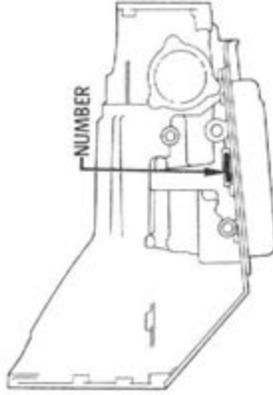
V-8 ENGINE  
CYLINDER BLOCK - L. H. SIDE



L-6 ENGINE  
CYLINDER BLOCK - R. H. SIDE



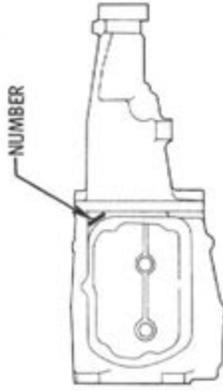
4 SPEED MANUAL TRANS.  
(35M20 - 35M21)



35M38 TRANS.



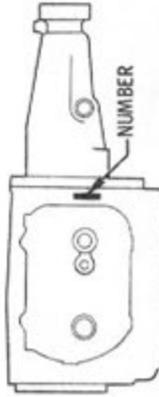
3 SPEED AUTOMATIC TRANS.  
(STD. ON 84, 8600)  
(35M40 - 35M41)



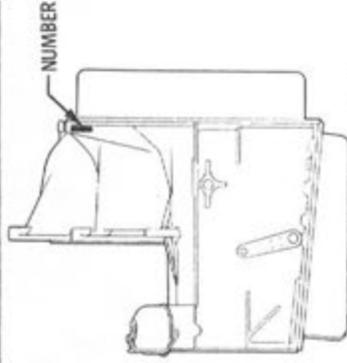
3 SPEED MANUAL TRANS.  
(STD. ON 31, 32, 35, 36, 42, 48000)



3 SPEED MANUAL TRANS. - HEAVY DUTY  
(STD. ON 54, 64, 66000)



3 SPEED MANUAL TRANS. - HEAVY DUTY  
(STD. ON 4400) (35M14)



3 SPEED AUTOMATIC TRANS.  
(STD. ON 94, 9600)

**NOTE**

STAMP PROTECTIVE NUMBER ON L. H. SIDE  
OF TRANSMISSION AT LOCATION SHOWN

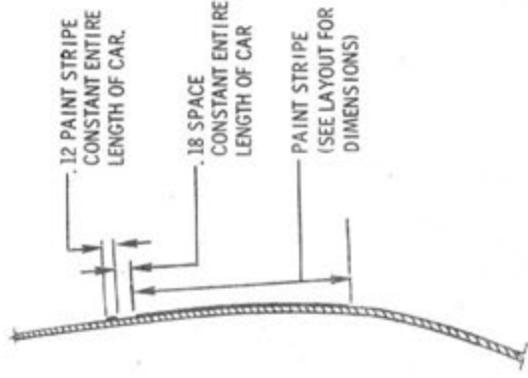
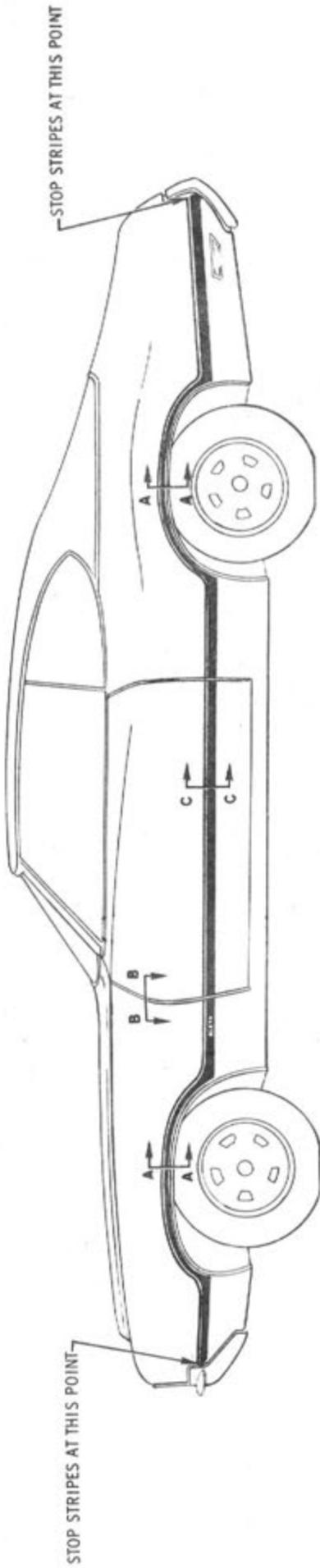
EACH VEHICLE ENGINE AND TRANSMISSION MUST BE STAMPED WITH A DERIVATIVE OF THE VEHICLE IDENTIFICATION NUMBER. THIS NUMBER OMMITS THE SERIES AND BODY STYLE AS FOLLOWS:

VEHICLE IDENTIFICATION NUMBER - 394870M600001  
ENGINE & TRANSMISSION PROTECTIVE NUMBER - 30M600001  
SEE PAGE 22 FOR ADDITIONAL INFORMATION.

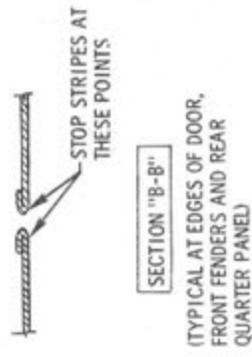
THE FOLLOWING REPAIR PROCEDURE WILL APPLY TO THE ABOVE STAMPED NUMBERS:  
"WHEN NO MORE THAN TWO (2) OF THE NINE CHARACTERS ARE INCORRECT IT WILL BE PERMISSIBLE TO OBLITERATE ONLY THE INCORRECT CHARACTER(S) WITH AN "X". STAMP AND RESTAMP THE CORRECT CHARACTER(S) ABOVE OR BELOW. IN THOSE INSTANCES WHERE THREE (3) OR MORE CHARACTERS ARE ERRONEOUS THE ENTIRE NUMBER IS TO BE OBLITERATED WITH AN "X". STAMP AND RESTAMP THE CORRECT NUMBER ABOVE OR BELOW THE ORIGINAL. IN THOSE CASES WHERE SPACE DOES NOT PERMIT OBLITERATION AND RESTAMP, ABOVE OR BELOW, THE ENTIRE NUMBER IS TO BE GROUND OFF AND RESTAMPED".

DATE	SYM	REVISION	TITLE	PROTECTIVE NUMBER STAMPING - ENGINE AND TRANSMISSION
2-26-69	B		TITLE REVISED	
2-26-69	A		TRANS. ADDED	
			DR. / CL. / APPR.	
			DR. BY P. LOCATELLI	
			CHECKED BY P. Barndorf	
			APPR. J. Johnson	
			DATE OCTOBER 30, 1968	
			FIRST USED	
			1970	
			OLDSMOBILE PRODUCT	
			INFORMATION MANUAL	
			MANUAL SEC.	
			0	
			116	
			PART NO.	
			A-B-C-E	
			404411-2-3	



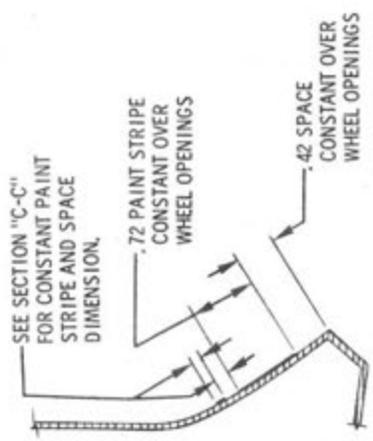


SECTION "C-C"



SECTION "B-B"

(TYPICAL AT EDGES OF DOOR, FRONT FENDERS AND REAR QUARTER PANEL)



SECTION "A-A"

(TYPICAL AT WHEEL OPENINGS)

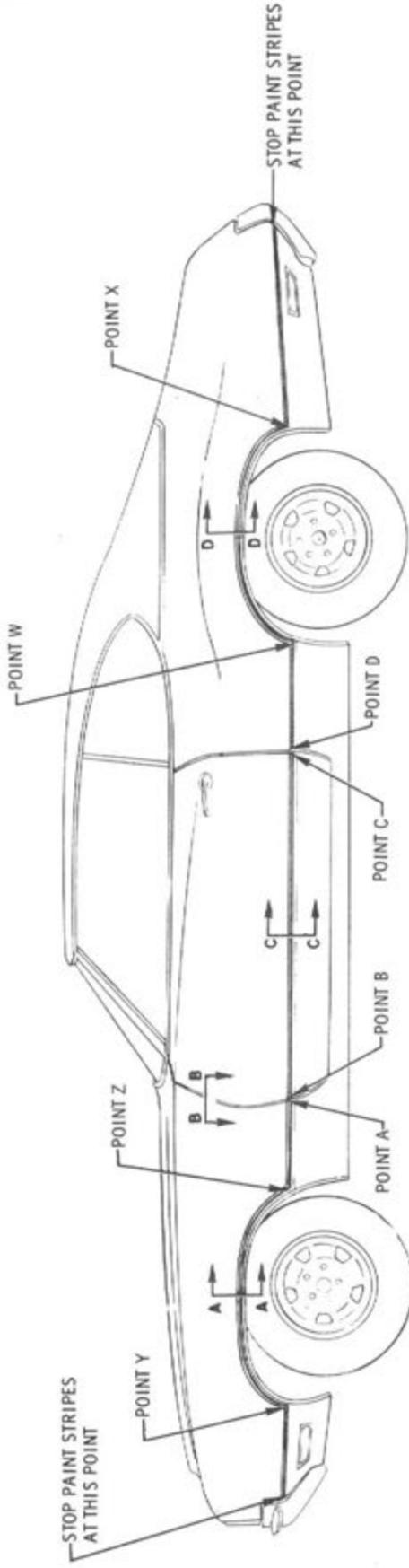
NOTE:  
 SEE CHART IN SECTION O,  
 PAGE 16 FOR PAINT STRIPE  
 USAGE.

(A)

(REF) LAYOUT NO. 406787

TITLE		BODY SIDE PAINT STRIPES (35W30 & 35W31)		MANUAL SEC. PAGE	
DATE	FIRST USED	OLDSMOBILE PRODUCT INFORMATION MANUAL	1-4	152	
DR. BY					
CHECKED					
APPR.					
DATE	SYN	REVISION	SERIES	PART NO.	
1-18-74	A	NOTE REMOVED	A	404411	



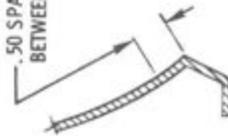


STOP PAINT STRIPES AT THIS POINT

STOP PAINT STRIPES AT THIS POINT

PAINT STRIPES MUST MATE AS NEAR AS POSSIBLE AT POINTS A & B AND AT POINTS C & D

.50 SPACE CONSTANT BETWEEN POINTS Y AND Z



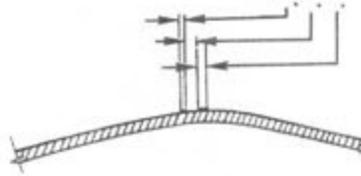
SECTION "A-A"



STOP PAINT STRIPES AT THESE POINTS.

(TYPICAL AT EDGES OF DOORS, FRONT FENDERS AND REAR QUARTER PANELS)

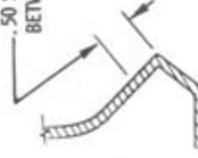
SECTION "B-B"



ABOVE DIMENSIONS CONSTANT ENTIRE LENGTH OF CAR

SECTION "C-C"

.50 SPACE CONSTANT BETWEEN POINTS W AND X



SECTION "D-D"

NOTE:  
SEE CHART IN SECTION O-  
PAGE 16 FOR PAINT STRIPE USAGE

(REF) LAYOUT NO. 406101

(A)

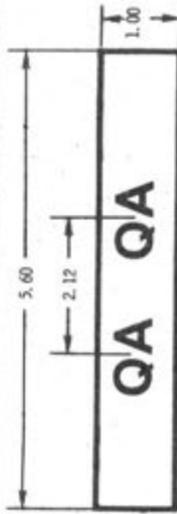
TITLE	BODY SIDE PAINT STRIPES (4400 EXC. 35W30 & 35Y74)		
DATE	FIRST USED	MANUAL SEC	PAGE
3-3-70	1970	1-4	150
DR BY	OLDSMOBILE PRODUCT INFORMATION MANUAL	SERIES	404411
CHECKED	REF.	ART NO.	
APPR.			
DATE	SYN	REVISION	
3-3-70	A	USAGE REVISED	





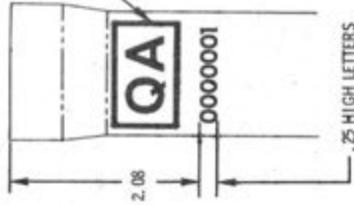
**OLDSMOBILE DIVISION**  
GENERAL MOTORS CORPORATION  
LANSING — MICHIGAN

NOTE:  
G.M.A.D. PLANT USAGE ONLY  
ENGINE OIL #9985183 T10W-30\*  
PERMISSIBLE FOR TOPPING OFF  
ALL ENGINES - YEAR AROUND

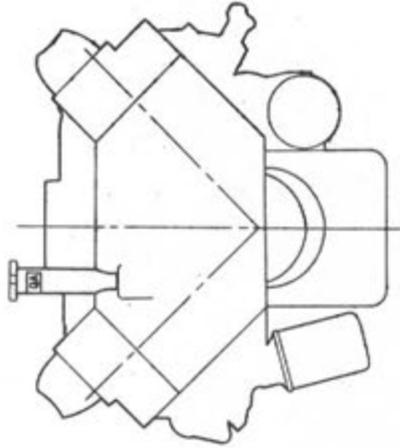


TYPE OF TAPE TO BE DETERMINED BY MANUFACTURING

INSTALL TAPE ON OIL FILLER TUBE ABOVE ENGINE NUMBER AS SHOWN.



ENGINE NUMBER TO BE STAMPED ON OIL FILL TUBE AS SHOWN AND TUBE TO BE ASSEMBLED TO ENGINE SO NUMBER MAY BE READ FROM FRONT.



ALL ENGINES WILL BE NUMBERED CONSECUTIVELY STARTING WITH 0000001 FOR COMPLETE ENGINE IDENTIFICATION, THE ENGINE NUMBER & ENGINE TAPE CODE SHOULD BE USED TOGETHER

EXAMPLE: QA - 0000001  
UNIT  
YEAR  
TAPE CODE

NOTE: THIS NUMBER IS USED FOR MANUFACTURING AND SERVICE ONLY. IT IS NOT INTENDED FOR ANY LEGAL USE.

PART NUMBER	UPC GROUP	PROD. CODE	TRANSMISSION		CARBURETOR		COMPRESSION RATIO			ACCESSORIES	
			SYNCHROMESH	AUTOMATIC	2 BARREL	4 BARREL	EXPORT	LOW	HIGH	AIR CONDITION C60	
405777	M38	QA		X	X			X			
405778	L90	QC		X	X			X			
405779	6	QI	X		X			X			
405780	C60	QJ		X	X			X		X	
405781	L90	QK	X		X			X			
405782	M38	QN		X	X			X			
405783	C60	QP		X	X			X		X	
405784	L90	QO		X	X			X			
408188	6	QB	X		X			X			
405786	W31	QX	X		X			X			
405787	L90	QY	X		X			X			
405788	W31	QD		X	X			X			
406447	L33	TY		X	X			X			
406448	C60	TX		X	X			X		X	
406442	M40	TW		X	X			X			
406443	C60	TV		X	X			X		X	
406444	6	TU	X		X			X			
406445	W30	TT		X	X			X			
406446	W30	TS	X		X			X			
406449	L31	TO		X	X			X			
406450	C60	TP		X	X			X		X	

350 CUBIC INCH (C)

455 CUBIC INCH (C)

350 AND 455 CUBIC INCH ENGINE ASSEMBLIES SHEET 1 OF 2

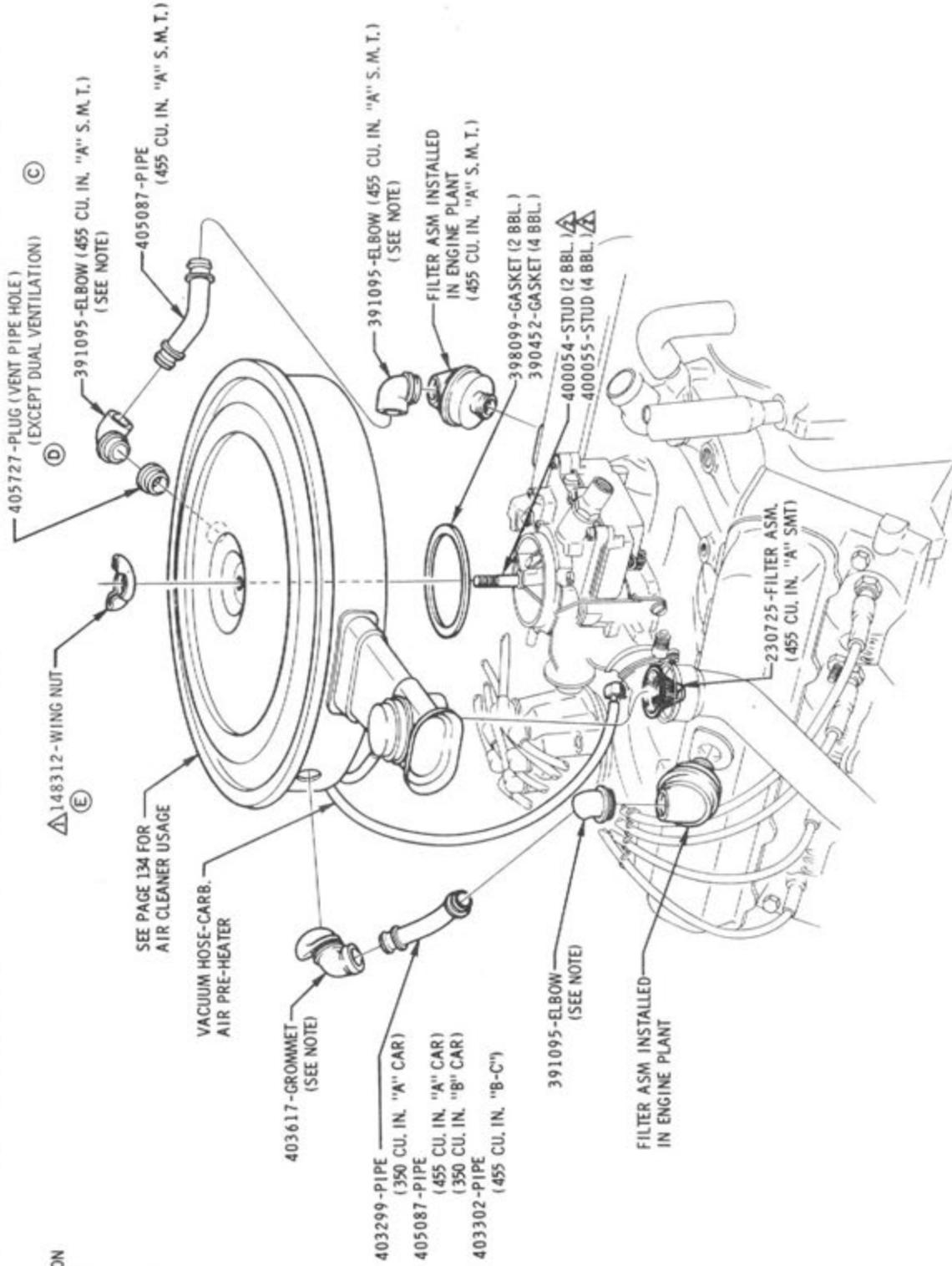
CHART - ENGINE IDENTIFICATION

DATE JAN. 25, 1969  
DR. BY C. GORDON  
CHECKED John P. ...  
REVISION WAS 405785 (QV)  
REVISION WAS 400 CU. IN.

FIRST USED 1970  
SERIES A  
PART NO. 405775

MANUAL SEC. PAGE 6-1  
REVISION DATE SYM





NOTE:  
USE SOAP SOLUTION ON  
GROMMETS & ELBOWS  
BEFORE ASM

▲ 3 - 5 LB. FT.  
▲ 12 - 20 LB. IN.  
▲ FULLY DRIVEN, SEATED  
▲ AND NOT STRIPPED

4-24-70	E	WAS 219281-WING NUT	DATE	BY	TITLE	STANDARD AIR CLEANER, CRANKCASE VENTILATION
3-31-70	D	NOTE REVISED	DATE	BY	DATE	FIRST USED
1-15-70	C	35 W.33 ADDED	DATE	BY	DATE	1970
10-6-69	B	35W32 ADDED	DATE	BY	DATE	REF. GM 6MS
2-28-69	A	455 HAS 400 ON 'A' CAR	DATE	BY	DATE	REF. GM 6MS
	SYN		DATE	BY	DATE	
			DATE	BY	DATE	

MANUAL SEC. PAGE  
**6-1 136**

OLDSMOBILE PRODUCT  
INFORMATION MANUAL

SERIES  
**A-B-C**

PART NO.  
**404411-2**



4 SPEED FULLY SYNCHRONIZED (WIDE RATIO) M20 (CLOSE RATIO) M21 TRANSMISSION

AXLE RATIO	TIRE CODE ★	SPEEDO DRIVEN GEAR			ADAPTER RATIO #	SPEEDO CABLE
		TEETH	PART NO.	COLOR		
3.08 (40:13)	30, 33, 35	18	3860341	BROWN	NONE	6477217
	10, 15, 21, 26	19	3860342	NATURAL	NONE	6477217
	20, 23, 25	21	3860344	RED	1.1320	6477217
3.23 (42:13)	20, 25	17	3870351	PURPLE	.8660	6477217
	23, 30, 33, 35	19	3860342	NATURAL	NONE	6477217
	10, 15, 21, 26	20	3860343	BLUE	NONE	6477217
3.42 (41:12)	23	18	3860341	BROWN	.8660	6477217
	30, 33, 35	20	3860343	BLUE	NONE	6477217
	10, 15, 20, 21, 25, 26	21	3860344	RED	NONE	6477217
3.91 (43:11)	20, 25	17	3870351	PURPLE	.7330	6477217
	33	18	3860341	BROWN	.7850	6477217
	23, 30, 35	20	3860343	BLUE	.8660	6477217
	10, 15, 21, 26	21	3860344	RED	.8660	6477217
# 4.33 (39:9)	23	19	3860342	NATURAL	.7330	6477217
	30, 33, 35	20	3860343	BLUE	.7850	6477217
	10, 15, 20, 21, 25, 26	21	3860344	RED	.7850	6477217
# 4.66 (42:9)	23	19	3860342	NATURAL	.6660	6477217
	30, 35	20	3860343	BLUE	.7330	6477217
	10, 15, 20, 21, 25, 26	21	3860344	RED	.7330	6477217
	33	21	3860344	RED	.7850	6477217
# 5.00 (45:9)	20, 21, 23, 25, 26, 30, 35	20	3860343	BLUE	.6660	6477217
	10, 15	21	3860344	RED	.6660	6477217
	33	21	3860344	RED	.7330	6477217

CHART - SPEEDOMETER GEAR USAGE

DATE MAY 12 1969  
 FIRST USED  
 DR. BY DON MARLIN  
 CHECKED John - [unclear]  
 APPR. [unclear]

1970  
 SERIES A

MANUAL SEC. 7  
 PRODUCT INFORMATION MANUAL

PAGE 81  
 PART NO. 404907

ADDED COLUMN  
 A WAS 377529

REVISION

DATE SYM

DR. CK. DATE SYM

REVISION

# DEALER INSTALLED.  
 ## USE RIGHT ANGLE SPEEDOMETER DRIVE ADAPTERS ONLY.

★ SEE TIRE CHART 406364

- .6660 - ADAPTER 406755 (DK. BROWN)
- .7330 - ADAPTER 406754 (RED)
- .7850 - ADAPTER 396338 (YELLOW)
- .8660 - ADAPTER 395430 (BLUE)
- 1.1320 - ADAPTER 395431 (NO COLOR)

(A) 3869912 - SPEEDO DRIVE GEAR FITTING ASSEMBLY FOR 17, 18, 19, 20, 21 TOOTH GEAR.  
 SPEEDO DRIVE GEAR 3915003 (28 PITCH 8 TOOTH).

### 3 SPEED AUTOMATIC TRANSMISSION

SHEET 3

AXLE RATIO	TIRE CODE ★	SPEEDO DRIVEN GEAR			ADAPTER RATIO
		TEETH	PART NO.	COLOR	
2.56 (41:161)	30, 33, 35	34	9774413	LT. GREEN	NONE
	10, 15, 20, 21, 23, 25, 26	35	9780387	ORANGE	NONE
2.78 (39:141)	33	36	1359270	WHITE	NONE
	30, 35	37	1359271	RED	NONE
	10, 15, 20, 23, 25	38	1359272	BLUE	NONE
	21, 26	39	1359273	BROWN	NONE
3.08 (40:131)	33	40	1362048	BLACK	NONE
	10, 15, 20, 23, 25	42	1362049	GREEN	NONE
	21, 26, 30, 35	43	1362196	PURPLE	NONE
3.23 (42:131)	33	42	1362049	GREEN	NONE
	30, 35	43	1362196	PURPLE	NONE
	20, 23, 25	44	9780470	DK. GRAY	NONE
	10, 15, 21, 26	45	9775187	LT. BLUE	NONE
3.42 (41:121)	10, 15	34	9774413	LT. GREEN	.7222
	20, 25	34	9774413	LT. GREEN	.7333
	23	40	1362048	BLACK	.8653
	21, 26	41	1362195	YELLOW	.8653
	30, 33, 35	45	9775187	LT. BLUE	NONE
3.91 (43:111)	20, 25	37	1359271	RED	.6944
	23	39	1359273	BROWN	.7333
	10, 15	39	1359273	BROWN	.7222
	21, 26	40	1362048	BLACK	.7333
	30, 35	40	1362048	BLACK	.7692
	33	44	9780470	DK. GRAY	.8653
# 4.33 (39:91)	33	35	9780387	ORANGE	.6190
	10, 15, 21, 26	37	1359271	RED	.6190
	30, 35	40	1362048	BLACK	.6944
	23	45	9775187	LT. BLUE	.7692
# 4.66 (42:91)	20, 23, 25	39	1359273	BROWN	.6190
	10, 15, 21, 26	40	1362048	BLACK	.6190
	30, 35	43	1362196	PURPLE	.6944
	33	44	9780470	DK. GRAY	.7222
# 5.00 (45:91)	30, 35	41	1362195	YELLOW	.6190
	20, 23, 25	42	1362049	GREEN	.6190
	10, 15, 21, 26	43	1362196	PURPLE	.6190
	33	45	9775187	LT. BLUE	.6944

CHART - SPEEDOMETER GEAR USAGE

TITLE	DATE	FIRST USED	MANUAL SEC. PAGE	PART NO.
DATE MAY 9, 1969 DR. BY DON MALKIN CHECKED [Signature]	1970	7	82	404907
APPR. [Signature]				
DR. CK.	REVISION	DATE	SYM	REVISION
DR. CK.	REVISION	DATE	SYM	REVISION
DR. CK.	REVISION	DATE	SYM	REVISION
DR. CK.	REVISION	DATE	SYM	REVISION

# DEALER INSTALLED

★ SEE TIRE CHART 406364

- .6190 - ADAPTER 540180 (ORANGE)
- .6944 - ADAPTER 535613 (GRAY)
- .7222 - ADAPTER 540183 (LT. BLUE)
- .7333 - ADAPTER 535614 (RED)
- .7692 - ADAPTER 535615 (YELLOW)
- .8653 - ADAPTER 535617 (BLUE)

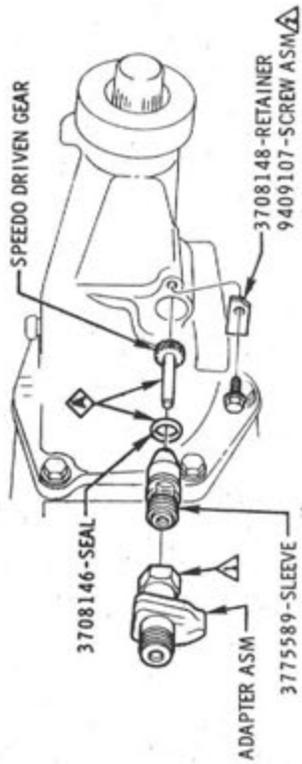
397807 (M40), 396793 (M38) - SPEEDO DRIVEN GEAR SLEEVE ASSEMBLY FOR 34, 35, 36, 37, 38, 39 AND 397806 (M40), 396794 (M38) FOR 40, 41, 42, 43, 44, 45 TOOTH GEAR.

SPEEDO DRIVE GEAR (28 PITCH 18 TOOTH)  
M38 - 6260037  
M40 - 8623313



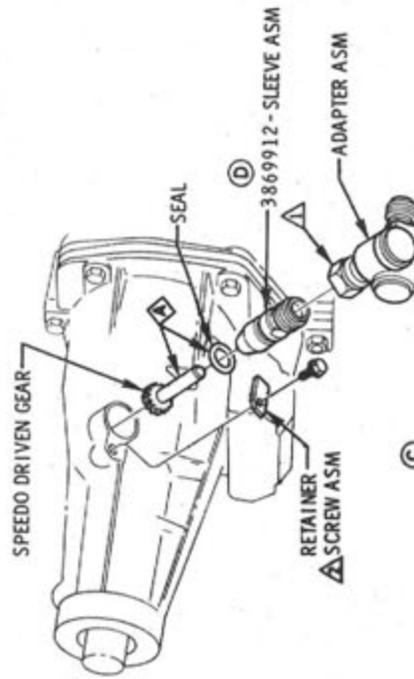


# MANUAL TRANSMISSION



3 SPEED MANUAL TRANS.  
(COLUMN SHIFT)

(B)

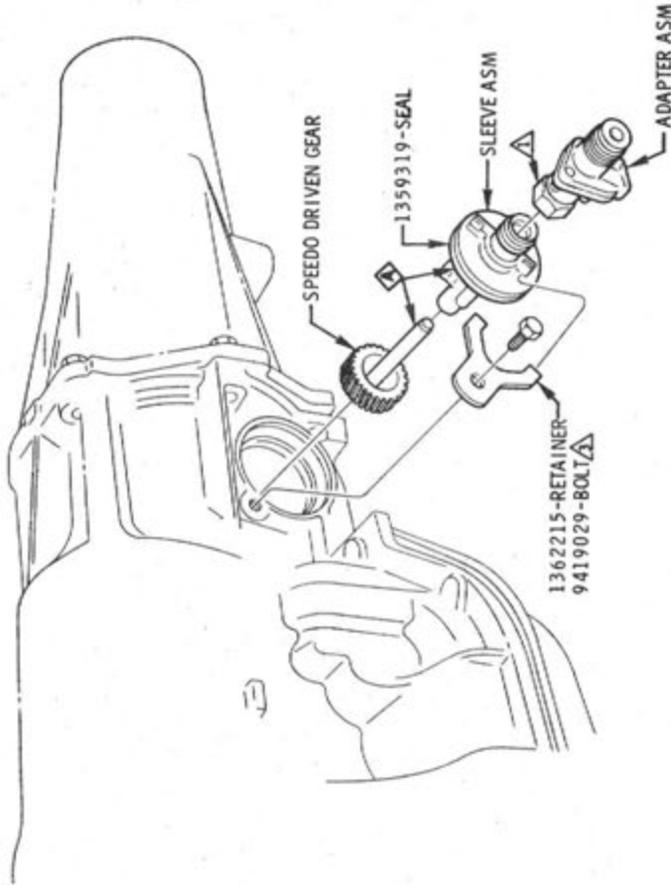


3 & 4 SPEED MANUAL TRANS. FLOOR SHIFT  
(4 SPEED TRANS. SHOWN; 3 SPEED SIMILAR)  
(PARTS OTHERWISE SAME AS COLUMN SHIFT)

- ▲ 96-192 LB. IN.
- ▲ 48-84 LB. IN.
- ▲ 20-80 LB. IN.
- ▲ FULLY DRIVEN, SEALED AND NOT STRIPPED

▲ LUBRICATE DRIVEN GEAR SHAFT AND SEAL AT ASSEMBLY WITH 9985158 OIL

# AUTOMATIC TRANSMISSION



3 SPEED AUTO. TRANS.

**NOTE**

FOR SPEEDO DRIVEN GEAR, ADAPTER ASM, AND AUTO. TRANS. SLEEVE ASM USAGE, SEE CHART IN FRONT OF SECTION

DATE	SYM	REVISION	DR. DC.	APPL.	TITLE	SPEEDOMETER DRIVEN GEAR AND ADAPTER ASSEMBLY
1-6-70	D	MAS 3775589-SLEEVE			DATE	OCTOBER 31, 1968
10-28-69	C	TITLE REVISED			DR. BY	M.E. HANSON
10-28-69	B	VIEW REVISED			CHECKED	M.E. HANSON
7-3-69	A	MAS 3869912			APPR.	K. S. STEPHENSON

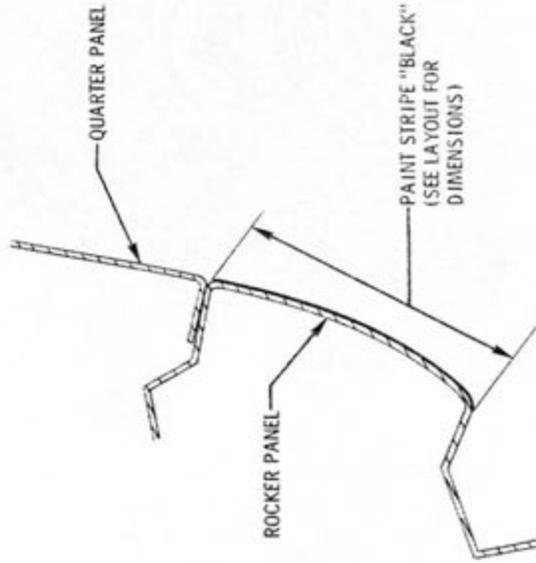
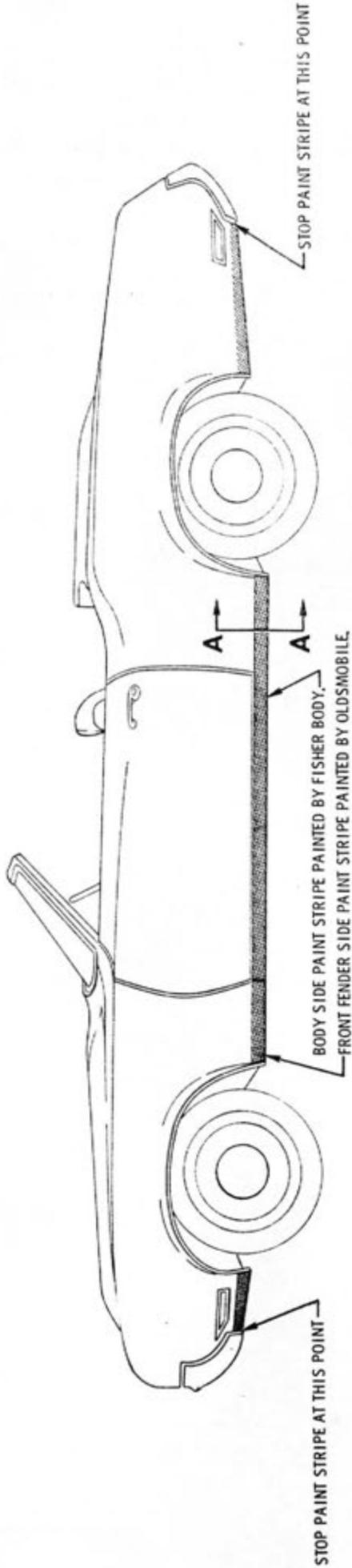
  

FIRST USED	1970	MANUAL SEC.	7	PAGE	100
OLDSMOBILE PRODUCT INFORMATION MANUAL		SERIES	A	START NO.	404411







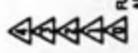


SECTION "A - A"  
(TYPICAL)

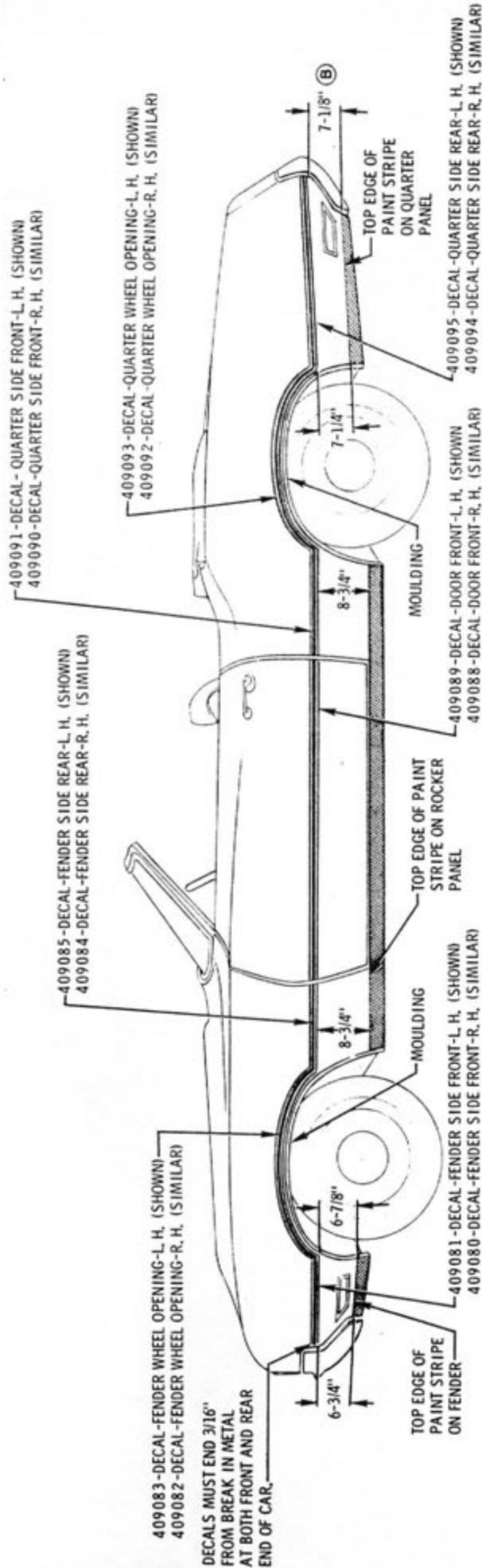
(REF) LAYOUT NO. 409067 & BR-45188

(SERIES 4267 & 4467)

TITLE		INDIANAPOLIS PACE CAR - PAINT STRIPE		MANUAL SEC	PAGE
DATE	MAR 5 1970	FIRST USED	1970	35Y74	102
DR BY	D. E. DALY	PRODUCT	OLDSMOBILE	INFORMATION	MANUAL
CHECKED	<i>[Signature]</i>	SERIES	A	NO.	404411
APPR	<i>[Signature]</i>	REF.	35-Y74		
DR	CK	REVISION			
DATE	SYM	REVISION			
DATE	SYM	REVISION			



FULLY DRIVEN, SEATED  
AND NOT STRIPPED



WRAP DECAL AROUND EDGES OF DOOR, FENDER AND QUARTER PANEL.



TYPICAL SECTION AT DOOR OPENINGS

TYPICAL INSTALLATION OF FENDER AND BODY DECALS

NOTE:  
FENDER DECALS ARE PART OF KIT 409077  
BODY DECALS ARE PART OF KIT 409086

NOTE: (A) (B)

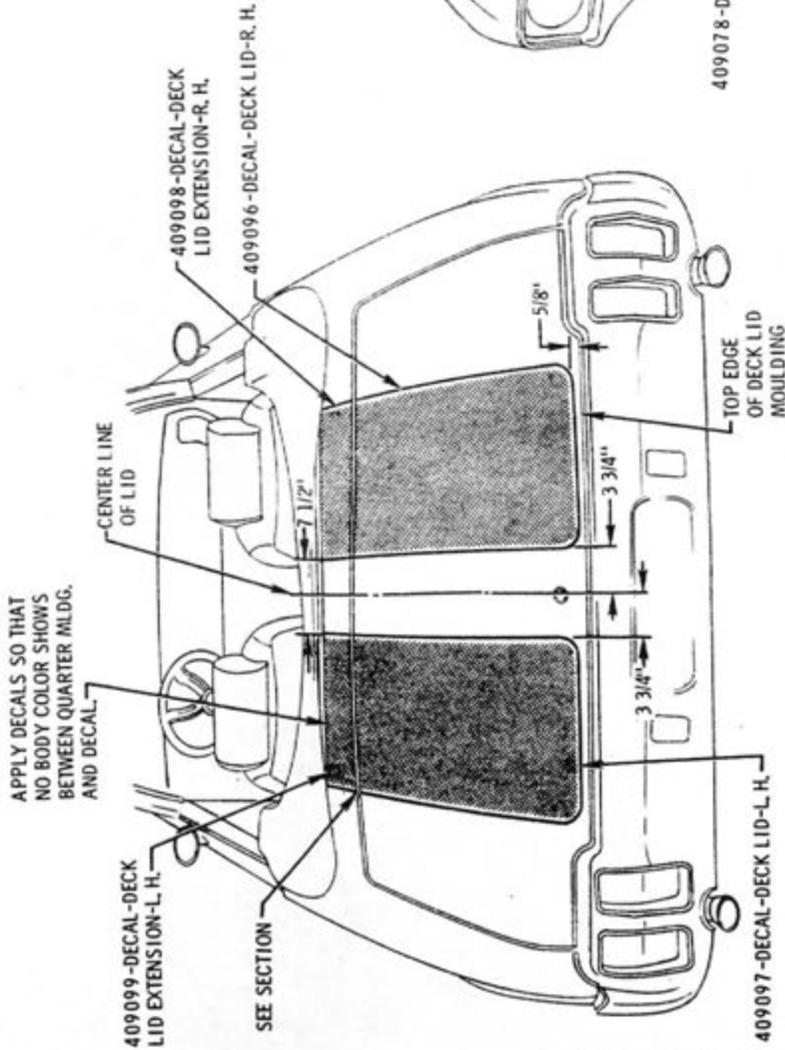
1. MAINTAIN A 3/4" CONSTANT SPACE BETWEEN WHEEL HOUSING DECALS AND MOULDINGS (FRONT AND REAR)
2. WHEEL HOUSING DECALS MUST MATCH EXACTLY WITH ADJOINING DECALS AT POINTS OF INTERSECTION.
3. DOOR DECALS MUST ALIGN EXACTLY WITH ADJOINING DECALS.



DAILY DRIVEN, SEATED AND NOT STRIPPED

TITLE		INDIANAPOLIS PACE CAR - BODY SIDE DECALS	
DATE	FIRST USED	MANUAL SEC.	PAGE
10/26/70	1970	35Y74	104
DR BY	CHECKED	PART NO.	
B. PARKER	SP	A	
APPROVED	APPROVED	SERIES	
APR 11 1971	APR 11 1971	A	
DR. CK.	APPR.	PART NO.	
		404411	
DATE	SYN	DATE	SYN
9-23-70		9-10-70	
A DIMENSION REVISED		A DIMENSION REVISED	
REVISION		REVISION	

(4267-4467)



TYPICAL APPLICATION OF DECK DECALS

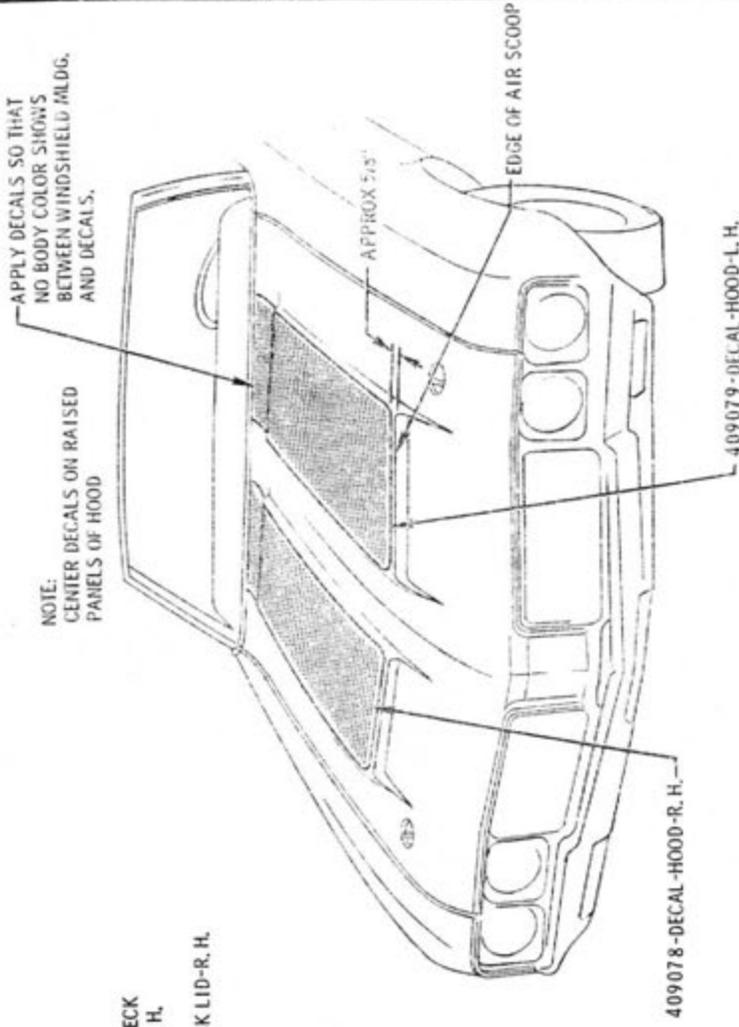
NOTE:  
DECK LID DECALS ARE PART OF KIT 409086

WRAP DECAL AROUND EDGE OF DECK LID

DECK LID

APPLY DECAL ON DECK LID EXTENSION SO THAT VISIBLE SURFACES (WITH DECK LID CLOSED) ARE COVERED.

TYPICAL SECTION THROUGH DECK LID AND DECK LID EXTENSION

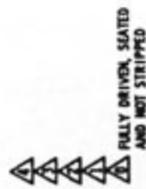


TYPICAL APPLICATION OF HOOD DECALS

NOTE:  
HOOD DECALS ARE PART OF KIT 409077

(4267-4467)

TITLE		INDIANAPOLIS PACE CAR - HOOD & DECK-LID DECALS							
DATE	FIRST USED	MANUAL SEC	PAGE						
1970	1970	35Y74	106						
CHECKED BY <i>B. PARKER</i>		SERIES	PART NO.						
APPR. <i>John Perry</i>		A	404411						
DATE	SYN	REVISION	DR	CK	DATE	SYN	REVISION	DR	CK



FULLY DRIVEN, SEATED AND NOT STRIPPED



1970  
OLDSMOBILE

*F85*

*Vista Cruiser*

*Cutlass*  
442



*Delta 88*

*Delta 88 Custom*

*Delta 88*  *Royale*

*Ninety Eight*

*Toronado*

**CHASSIS**

**SERVICE MANUAL**



# GENERAL INFORMATION AND PERIODIC MAINTENANCE

## ALL SERIES

### CONTENTS OF SECTION O

Subject	Page	Subject	Page
BRAKE WARNING LIGHT	0-15	PERIODIC MAINTENANCE	0-9
DIFFERENTIAL RATIOS	0-6	BATTERY	0-9
FINAL DRIVE	0-6	SERVICE BRAKES	0-9
IDENTIFICATION		BODY LUBRICATION	0-9
MODEL	0-1	PERIODIC MAINTENANCE CHART	0-14
BODY AND STYLE	0-1	TIRE INFORMATION	0-6
MODEL DESIGNATION CHART	0-2	TIRE ROTATION	0-6
VEHICLE NUMBER PLATE	0-3	TOWING DATA (WITH IGNITION KEY)	0-7
ENGINE	0-3	TOWING DATA (WITHOUT IGNITION KEY)	0-8
FACTORY OPTIONAL EQUIPMENT	0-8	TRANSMISSIONS	
GENERAL SPECIFICATIONS	0-9	MANUAL	0-3
GUARDIAN MAINTENANCE CHART	0-17	TURBO HYDRA-MATIC 350	0-5
PAINT CHART	0-18	TURBO HYDRA-MATIC 400	0-5

### IDENTIFICATION

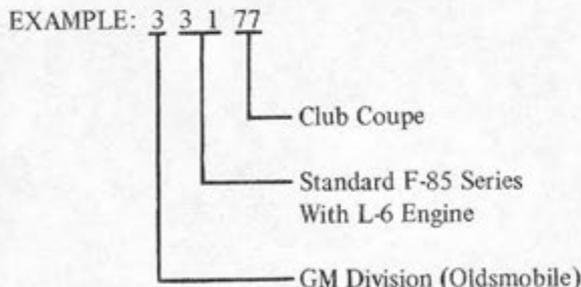
#### MODEL

A five digit number, called the car series and body style designation number, identifies any car as to series and style. Reading from left to right, the digits represent the following:

The first digit indicates the General Motors Division.

The second and third digits are Fisher Body Shell Designation. The third digit also is used to designate the L-6 or V-8 engine (odd numbers indicate L-6 and even, V-8 engine).

The fourth and fifth digits are body style designation.



#### BODY AND STYLE

The body and style numbers are stamped on a plate that is mounted on the left upper cowl. (Fig. 0-1)

Information on this plate shows:

1. Style Number
2. Body Number
3. Trim Number
4. Paint Number (Color Specification)
5. Time Built Code

All Fisher Body numbers are prefixed by letters indicating the plant at which the body was assembled.

F-85 bodies are coded as follows:

LAN - Lansing	BF - Fremont
BL - Linden	FRA - Framingham

All 88 series are coded as follows:

LAN - Lansing	BL - Linden
BK - Kansas City	BC - South Gate
	ATL - Atlanta

All 98 series will be assembled at Lansing. (LAN)

All Toronado Series will be built at Lansing, Michigan and have code letters "EUC" for Body Unit Number (s) prefix.

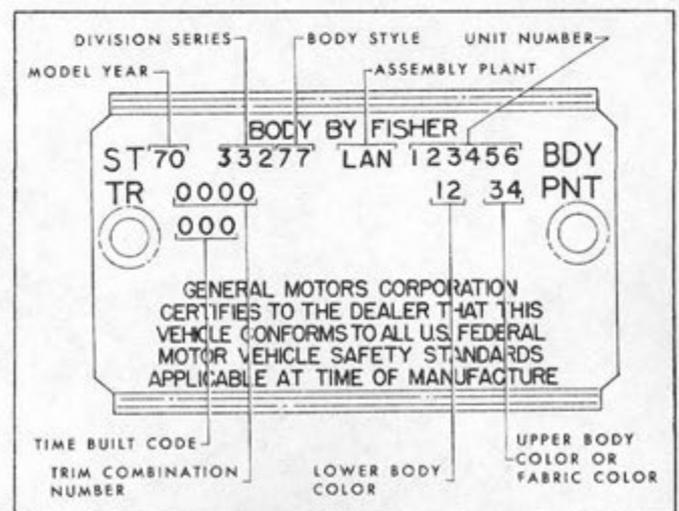


Fig. 0-1—Body and Style Number Plate

## 1970 MODEL DESIGNATION

Series	Body Description or Name	Body Style	Body Type	Chassis Designation		Sales and Scheduling Code	
				L-6	V-8	L-6	V-8
F-85 33100 (L-6) 33200 (V-8)	Club Coupe	77	A	33177	33277	3177	3277
Cutlass 33500 (L-6) 33600 (V-8)	2-Seat Station Wagon Holiday Sedan Town Sedan Sports Coupe Holiday Coupe	35 39 69 77 87	A	33535 33539 33569 33577 33587	33635 33639 33669 33677 33687	3535 3539 3569 3577 3587	3635 3639 3669 3677 3687
Cutlass Supreme 34200 (V-8)	Holiday Sedan Holiday Coupe Convertible	39 57 67	A		34239 34257 34267		4239 4257 4267
442 34400 (V-8)	Convertible Sports Coupe Holiday Coupe	67 77 87	A		34467 34477 34487		4467 4477 4487
Vista-Cruiser 34800 (V-8)	Two-Seat Three-Seat	55 65	A		34855 34865		4855 4865
Delta 88 35400	Holiday Coupe Holiday Sedan Convertible Town Sedan	37 39 67 69	B		35437 35439 35467 35469		5437 5439 5467 5469
Delta 88 Custom 36400	Holiday Coupe Holiday Sedan Town Sedan	37 39 69	B		36437 36439 36469		6437 6439 6469
Delta 88 Royale 36600	Holiday Coupe	47	B		36647		6647
Ninety-Eight 38400	Holiday Sedan Holiday Coupe Convertible Town Sedan	39 57 67 69	C		38439 38457 38467 38469		8439 8457 8467 8469
Ninety-Eight 38600	Luxury Hardtop Sedan Luxury Sedan (Pillar)	39 69	C		38639 38669		8639 8669
Toronado 39400	Coupe	87	E		39487		9487

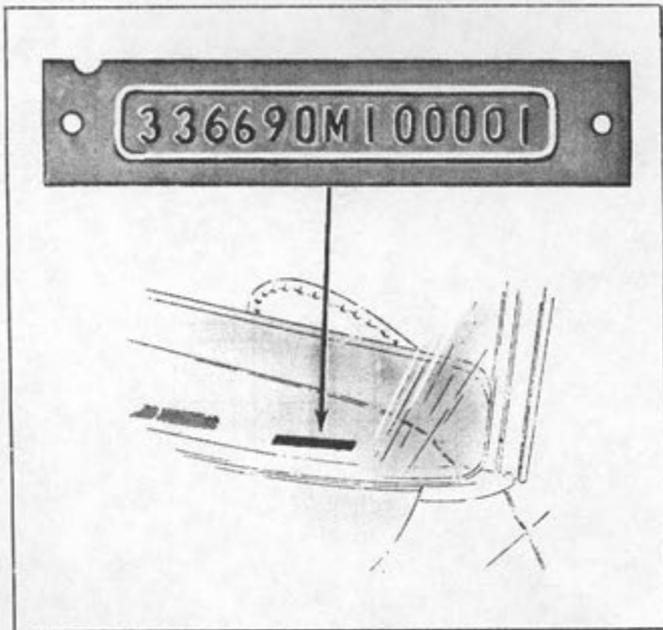


Fig. 0-2—Vehicle Identification Number Plate

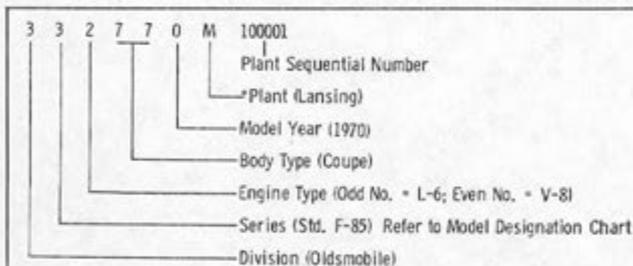
**VEHICLE NUMBER PLATE**

The 1970 vehicle identification number plate is located in the left upper instrument panel. The numbers are visible from the outside of the car. (Fig. 0-2) Each unit number is prefixed by a letter and six numbers and have designations as shown in Fig. 0-3.

**ENGINE**

The L-6 Engine has a DATE-CODE stamped on the right side of the engine block, directly to the rear of the distributor. (Fig. 0-4)

The data code consists of a letter, four digits and two letters. The first letter stands for source identification. The first two digits show the month and the second two digits show the day the unit was built. The last two letters show



*Series	Body Letter	Plant Letter	Plant
3100 through 4800	A	M	Lansing, Michigan
		Z	Fremont, California
		E	Linden, New Jersey
		G	Framingham, Mass.
5400 through 6600	B	M	Lansing, Michigan
		X	Kansas City, Kansas
		E	Linden, New Jersey
		C	Southgate, California
8400 & 8600 9400	C	M	Lansing, Michigan
		E	

Fig. 0-3—Vehicle Identification Plate Data

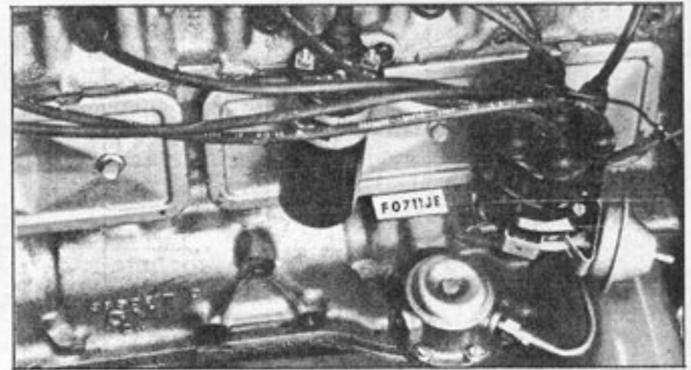


Fig. 0-4—L-6 Engine Unit Number Location

transmission or option usage.

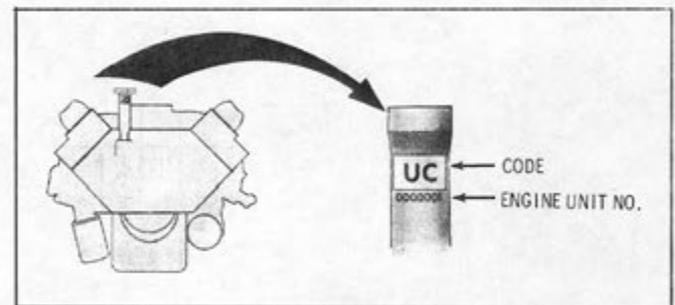
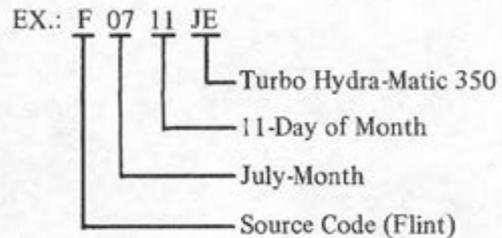


Fig. 0-5—V-8 Engine Number and Code Location

V-8 engines have the code tape installed directly above the engine unit number which is stamped on the engine oil fill tube. (Fig. 0-5) Chart on page 0-4 shows engine usage and identification.

**TRANSMISSIONS**

**MANUAL**

The three speed standard transmission has 1 inch high identification code letters on the right-hand side of case. The three speed heavy duty transmission has 2 inch high identification code letters on the right-hand side of extension housing. Fig. 0-6 shows manual transmission identification.

TYPE	SERIES	CODE R. H. SIDE OF CASE	OPTION CODE
3-Speed	3100, 3500 L-6 Engine 3200, 3600, 4200, 4800	RR.	
		RT	
3-Speed Heavy Duty	5400, 6400, 6600 Column Shift 4400 Floor Shift 3200, 3600, 4200 Floor Shift (Except Station Wagons)	DA	M-14
		RM	
		RM	
4-Speed	3200, 3600, 4200, (wide ratio) 3200, 3600, 4200, 4400 (close ratio)	WB	M-20
		KA	M-21

Fig. 0-6—Manual Transmission Code Letter

ENGINE IDENTIFICATION CHART

Series	Trans.	250 Cu. In. 8.50 C.R. 1 Bbl. L6 Action Line 6	350 Cu. In. 9.00 C.R. 2 Bbl. V8 Rocket 350	350 Cu. In. 10.50 C.R. 4 Bbl. V8 W31 350	455 Cu. In. 9.00 C.R. 2 Bbl. V8 Rocket 455	455 Cu. In. 10.25 C.R. 2 Bbl. V8 Rocket 455	455 Cu. In. 10.25 C.R. 4 Bbl. V8 Rocket 455	455 Cu. In. 10.50 C.R. 4 Bbl. V8 W30 455	455 Cu. In. 10.25 C.R. 4 Bbl. V8 W33 455	455 Cu. In. 10.25 C.R. 4 Bbl. V8 Toronado	455 Cu. In. 10.25 C.R. 4 Bbl. V8 W34 Toronado
3100	SMT	S									
	AMT	0									
3200	SMT		S QI	OIL-74) QV							
	AMT		0 QA, QJ <sup>o</sup>	OIL-74) QN, QP <sup>o</sup>							
3500	SMT	S									
	AMT	0									
3600	SMT		S QI	OIL-74) QV							
	AMT		0 QA, QJ <sup>o</sup>	OIL-74) QN, QP <sup>o</sup>							
4200	SMT		OIL-65) QI	S QV							
	AMT		OIL-65) QA, QJ <sup>o</sup>	OIL-74) QN, QP <sup>o</sup>							
4400	SMT										
	AMT										
4800	SMT		S QI	OIL-74) QV							
	AMT		0 QA, QJ <sup>o</sup>	OIL-74) QN, QP <sup>o</sup>							
5400	SMT		S TL								
	AMT		0 TD, TC <sup>o</sup>								
6400	SMT										
	AMT										
6600	SMT										
	AMT										
8400	SMT										
	AMT										
9400	SMT										
	AMT										
Hearse Chassis	SMT										
	AMT										

S - Standard  
 0 - Optional  
 o - With Air Conditioning

@ - Available only on 3677 & 3687 (Club Coupe & H.T. Coupe)  
<sup>o</sup> - Available only on 4257 & 4267 (Holiday Coupe & Convertible)

Export Option:  
 L-6 Export Option (7.25) Compression Ratio (CR)  
 V-8 Export Option (8.3) Compression Ratio (CR) Available in 2 or 4 Barrel.

**TURBO HYDRA-MATIC 350**

Transmission Model and Code Numbers are stamped on the servo cover as shown in Fig. 0-7.

EXAMPLE: 70 JG 001

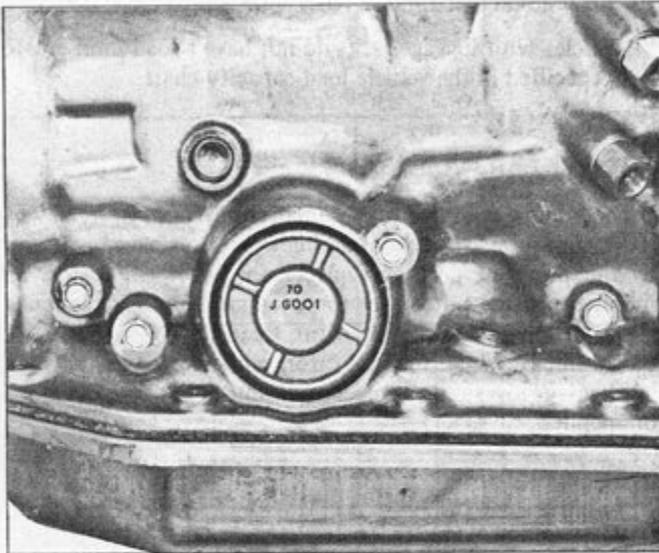
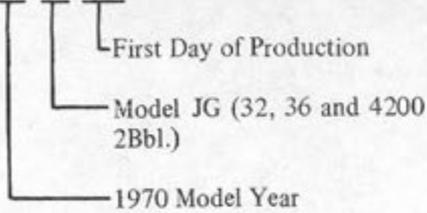


Fig. 0-7—Turbo Hydra-Matic (350) Model Location

TRANSMISSION CODE	SERIES	ENGINE
JE	31, 3500	L-6 1 Bbl.
JG	32, 36, 4200	350 Cu. In. 2 Bbl.
JL	32, 36, 4200	350 Cu. In. 4 Bbl.
JO	32, 3600	350 Cu. In. 4 Bbl. With W31
JM	4800	350 Cu. In.

Fig. 0-8—Turbo Hydra-Matic Usage Chart

**TURBO HYDRA-MATIC 400**

The Turbo Hydra-Matic serial number for all series except Toronado is stamped on a plate located on the right side of the case. (Fig. 0-9). The Turbo Hydra-Matic serial number for Toronado series is stamped on a plate located on the left-hand side of the converter housing.

**TURBO HYDRA-MATIC 400 USAGE CHART**

TRANSMISSION CODE	SERIES	ENGINE
OA	5400	350 Cu. In. 2 Bbl With K30
OB	54-8600	455 Cu. In. 4 Bbl
OC	54-6600	455 Cu. In. 2 Bbl
OD	36, 4200	455 Cu. In. Exc. W32
OF	5400	350 Cu. In. 2 Bbl EXC. K30
OG	42, 4400	455 Cu. In. 4 Bbl., W32 Exc. W30
OJ	9400	455 Cu. In. 4 Bbl Exc. W34
OK	54-8600	455 Cu. In. 4 Bbl With K30
OK	4800	455 Cu. In. 4 Bbl
OL	54-6600	455 Cu. In. 4 Bbl With W33
OM	9400	455 Cu. In. 4 Bbl With W34
OR	54-6600	455 Cu. In. 2 Bbl With K30
OW	4400	455 Cu. In. 4 Bbl With W30



Fig. 0-9—Turbo Hydra-Matic (400) Serial Number Plate



Fig. 0-10—Axle Code Location (Exc. Toronado)

## DIFFERENTIAL RATIOS

The differential ratio code letters (1/4" high) are stamped on the right rear inboard side of the axle housing tube. (Fig. 0-10)

Letters, for standard, Anti-Spin and final drive differentials, indicating corresponding ratio for each series are shown in chart.

### 1970 DIFFERENTIAL IDENTIFICATION CODE

Series	Gear Ratio	Gear Teeth	Code Letters	
			Std.	Anti-Spin
3100 Thru 4400 Exc. W-27, W-30, W-31	2:56	41:16	R2	R3
	2:78	39:14	SA	SB
	3:08	40:13	SC	SD
	3:23	42:13	SE	SF
	3:42	41:12		SH
	3:91	43:11		SJ
31-4400 With W-27	3:23	42:13		SV
	3:42	41:12		SX
	3:91	43:11		SZ
31-4400 With W-30, W-31 Exc. W-27	3:42	41:12		TM
	3:91	43:11		TO
4800	2:56	41:16	SI	ST
	2:78	39:14	TA	TB
	3:08	40:13	SM	SN
	3:23	42:13	SO	SP
5400 (350 Cu. In.)	2:78	39:14	RA	RB
	3:23	42:13	RE	RF
54-8600 (455 Cu. In.)	2:56	41:16	QC	QD
	2:93	41:14	QI	QJ
9400	3:07	43:14	T	

## FINAL DRIVE ASSEMBLY (Differential)

The date code is stamped on the flange near the right hand spreader hole (Fig. 0-11).

DATE CODE: The code letter for month and number (s) for actual date.

EXAMPLE:

M13=Built November 13

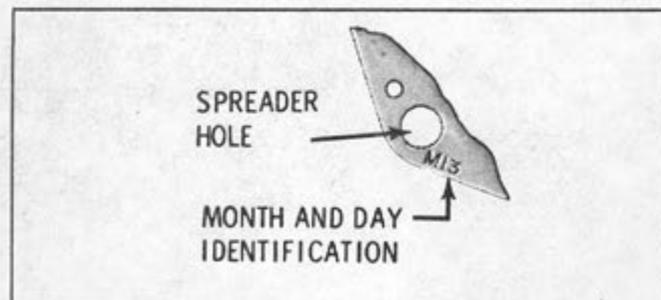


Fig. 0-11—Final Drive Date Code

## TIRE INFORMATION

When the car is driven a few miles, tires warm up causing pressure increase. If tire pressures are checked when tires are warm, they may be up to 6 pounds higher than the pressures shown on the chart.

For continuous high speed operation (over 75 mph) increase tire inflation pressure 4 pounds per square inch over the recommended pressures up to a maximum of 32 pounds per square inch cold for 4 ply rating tires. Sustained speeds above 75 mph are not recommended when the 4 pounds per square inch adjustment would require pressures greater than 32 pounds per square inch.

Over inflation at light loads will have an adverse effect on the car ride and tire tread wear pattern. Under inflation will promote heat and abnormal wear.

When towing trailers, the allowable passenger and cargo load must be reduced by an amount equivalent to the trailer tongue load on the trailer hitch.

Vehicles with luggage racks do not have a load limit greater than specified in the vehicle load capacity chart.

## TREAD WEAR INDICATORS

The original equipment tires incorporate built-in tread wear indicators to assist in determining when tires have been worn to the point of needing replacement. These indicators are molded into the bottom of the tread grooves and will appear as 1/2 inch wide bands when tire tread depth becomes 1/16 of an inch. When the indicators appear in two or more adjacent grooves, tire replacement due to tread wear is recommended.

## VEHICLE LOAD CAPACITY AND DISTRIBUTION

Model	Full Load Capacity Is:	
All Models - Except Station Wagons	1100 Lbs. Total	3 Passengers Front 3 Passengers Rear 200 Lbs. Luggage
	950 Lbs. Total	Bucket Seats 5 Passengers 200 Lbs. Luggage
Station Wagon 2 Seat	1200 Lbs. Total	3 Passengers Front 3 Passengers Rear 300 Lbs. Luggage
Station Wagon 3 Seat	1200 Lbs. Total	3 Passengers Front 3 Passengers Second Seat 2 Passengers Third Seat or 300 Lbs. Luggage

## TIRE ROTATION

To equalize wear, it is recommended that the four road tires be rotated every 6,000 miles, see Fig. 0-12. It is not necessary to rotate the spare. Upon rotation, tire pressures must be adjusted (front and rear) in accordance with the recommendations in the tire inflation pressure table. Also keep tires balanced, the front wheels aligned, and periodically examine tires for unusual wear.

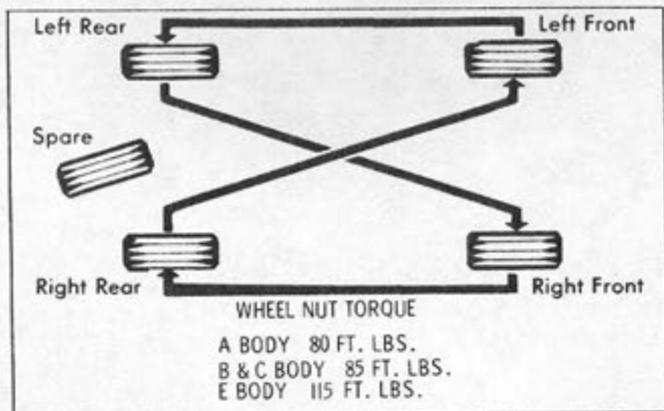


Fig. 0-12—Tire Rotation

## TIRE CHART

SERIES	TIRE SIZE	TIRE PRESSURE*		TIRE PRESSURE**	
		Front	Rear	Front	Rear
F-85 L6 Except S.W. Standard White Wall White Letter White Line	F78 x 14 F78 x 14 G70 x 14*** G70 x 14***	24	28	22	22
F-85 V8 Except S.W. Standard White Wall White Letter White Line	G78 x 14 G78 x 14 G70 x 14*** G70 x 14***	24 -%	28	22 -%	22 24
442 Standard White Letter Export (Nylon)	G70 x 14 G70 x 14 8.25 x 14	26	28	24	24
Cutlass L6 S.W. Except C-28 Standard White Wall Export (Nylon)	G78 x 14 G78 x 14 8.25 x 14				
Cutlass Station Wagon*** 2 and 3 Seat Vista Cruiser Standard White Wall Export (Nylon)	H78 x 14 H78 x 14 8.55 x 14	24	32	22	25
Delta, Delta Custom and Delta Royale Standard White Wall Export (Nylon)	H78 x 15 H78 x 15 8.55 x 15	24	28	22	22
Ninety Eight Standard White Wall Export	J78 x 15 J78 x 15 8.85 x 15	24	28	22	22
Toronado Standard White Wall Export	J78 x 15 J78 x 15 8.85 x 15	27	27	25	21

\*Standard inflation for all loads up to and including full load capacity and weight distribution for special conditions refer to copy C-28 dual acting tailgate

\*\*Optional inflation for reduced loads - five passengers or less - 750 lbs. max.

\*\*\*Coupes and convertibles only

\*\*\*\*C-28 dual acting tailgate

% 455 Cu. In. Engine

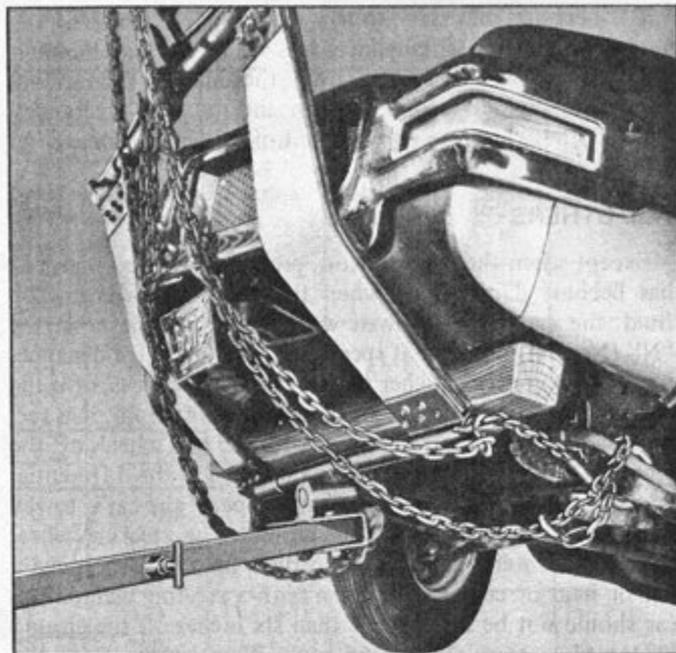


Fig. 0-13—Towing Toronado (Typical)

## TOWING DATA (WITH IGNITION KEY)

## Toronado

It is recommended that the car be towed with the front wheels off the ground. However, the car can be towed with the rear wheels off the ground if damage in the rear wheel area will not permit such towing. In this event, the car may be towed with the rear wheels off the ground by placing the selector lever in the "N" (neutral) position and driving at speeds not to exceed 35 mph for distances up to 50 miles. When towing with the front wheels off the ground, the sling should be 4 feet wide so the straps contact the bumper at the jacking points. A 4x4 about 5 feet long is used between frame and sling so that lower valance panel is not damaged. (Fig. 0-13).

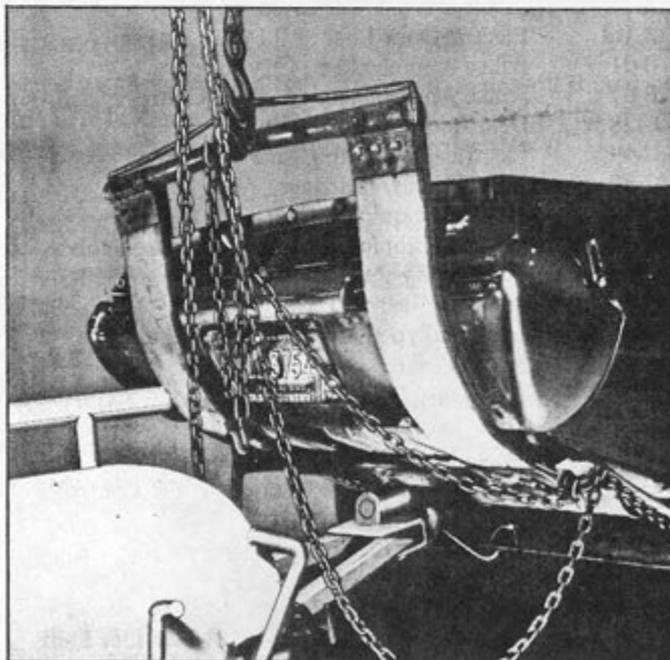


Fig. 0-14—Towing Toronado (Typical)

If it becomes necessary to tow or winch from the rear, the hooks should be positioned just inboard of rebound bumper. Do not install towing hooks any further inboard than shown because of possible damage to axle and not over emergency brake cables which are just in front of axle in this area. (Fig. 0-14.)

#### ALL OTHERS

Except when the transmission, propeller shaft or rear axle has become damaged or when the transmission is low on fluid, the car may be towed with the selector lever in the "N" (Neutral) position at speeds up to 35 mph, for distances up to 50 miles. For higher speeds, longer distances, or if the transmission has become damaged or has lost fluid, it is recommended that the car be towed with the rear wheels off the ground or the propeller shaft disconnected at the differential and secured to the frame or exhaust pipe. If the car is towed with the rear wheels off the ground, the steering wheel should be centered and lashed to the window division channel or held in centered position with a steering clamp. The car should not be lifted more than six inches off the ground or towed at speeds above 35 mph. When towing with the wheels off the ground, it is recommended that a 4" x 4" timber be located beneath the lower edges of the bumper to prevent lift chains damaging the lower panel.

#### TOWING DATA (Without Ignition Key)

In the case of abandoned or illegally parked and locked

vehicles, additional steps preparatory to towing may be necessary:

#### TORONADO

The car can be towed on the rear wheels at any time provided the parking brake is released and there is no damage to the rear wheels or rear suspension.

#### ALL OTHER SERIES

If the front wheels are in the straight ahead position, the car may be lifted at the rear and towed in the conventional manner. A steering wheel clamp should always be used when towing on the front wheels.

If the front wheels are locked in other than the straight ahead position and towing on the front wheels would result in the car tracking to the side of the wrecker, the rear wheels should be placed in a dolly and the car towed with the front end raised.

As an alternative, the car can be towed with the rear wheels on the ground by disconnecting the propeller shaft at the differential and wiring it to the frame. The parking brake must also be released.

## FACTORY INSTALLED OPTIONAL EQUIPMENT

The following list of factory installed options have been used in numerous sections of this Service Manual. This list does not cover all optional equipment but only the items which effect adjustments or service procedures covered in this manual.

OPTION CODE	DESCRIPTION	OPTION CODE	DESCRIPTION
A-90	Electric Trunk Lid Latch	M-21	4 Speed Close Ratio Synchronized, Floor Shift
A-U3	Electric Door Lock, All Doors	M-38	Turbo Hydra-Matic Transmission (350)
B-01	Police Apprehender - City Cruiser	M-40	Turbo Hydra-Matic Transmission (400)
B-07	Police Apprehender - Highway Patrol	M-55	Auxiliary Oil Cooler, Automatic Transmission
C-28	Dual Action Tailgate	N-10	Dual Exhaust System
C-49	Electrical Defrosting Rear Window	N-33	Tilt Steering Column
C-50	Rear Window Defogger	N-37	Tilt and Telescope Steering Wheel
C-60	Air Conditioning	N-40	Power Steering
C-61	Air Conditioning with Automatic Controls	T-81	Headlamp "Off" Delay
G-51	Heavy Duty Rear Springs	T-87	Cornering Lamp
G-66	Superlift Rear Shock Absorbers	U-15	Safety Sentinel
G-80	Locking Type (Anti-Spin) Differential	U-21	Rally Pack
J-50	Power Brakes	U-80	Rear Seat Speaker
JL2	Front Disc Brakes - Power	U-89	Trailer Hauling Wire Harness
JL9	Wheel Lock Control	V-01	Heavy Duty Radiator
J-55	Heavy Duty Brakes (Police Usage)	W-30	Air Induction System 455 Cu. In.
K-30	Automatic Throttle Control (Cruise Control)	W-31	Air Induction System 350 Cu. In.
L-30	LC 455 Cu. In. 2 Bbl.	W-32	455 Cu. In. Engine - SX
L-31	HC. 455 Cu. In. 4Bbl.	W-34	Air Induction System (Toronado)
L-65	LC. 350 Cu. In. 2Bbl.	W-33	Police Engine - 455 Cu. In.
L-74	H.C. 350 Cu. In. V-8 4Bbl.	Y-72	Heavy Duty Engine Cooling & Generator
M-14	3 Speed Fully Synchronized H.D., Floor Shift	Y-78	Demand Wiper System
M-20	4 Speed Fully Synchronized, Wide Ratio, Floor Shift		

## GENERAL SPECIFICATIONS

Series	F-85 Series 3100 Thru 4800 Series					Delta 88 (5400)	All Other 88's 6400 6600	98's 8400 and 8600	9400
	Standard Station Wagons	Vista- Cruiser	442	Coupes	Sedan				
Wheelbase	116"	121"	112"	112"	116"	124"	124"	127"	119"
Tread Width Front Rear	59" 59"	59" 59"	59" 59"	59" 59"	59" 59"	62.5" 63"	62.5" 63"	62.5" 63"	63.5" 63"
Overall Length	213.2	218.2"	203.4	203.4	207.4	218.5	218.5	224.4	214.9
Overall Width	77.2	77.2"	76.3	76.3	76.3	79.9	79.9	79.8	78.8
Overall Height	55.2	58.6	53.5	53.5	53.5	55.5	55.5	55.8	52.7
Engine Displacement* (Cu. In.) L-6 V-8	250 350	350	455	250 350	250 350	350	455	455	455
Taxable Horsepower* L-6 V-8	36 52.7	52.7	54.4	36 52.7	36 52.7	52.7	54.4	54.4	54.4

\*Standard V8 Engine

## PERIODIC MAINTENANCE

## BATTERY

Check battery liquid level at each engine oil change interval or once a month whichever occurs first or more often, when refueling in hot weather. Level should reach the bottom of the split ring in the vent well. **DO NOT OVERFILL.**

Clean top of battery and terminals every 12,000 miles and check tightness of battery hold-down bolt. To properly clean battery:

- Make sure vent plugs are closed tight.
- Remove battery cables from battery.
- Clean battery with a diluted ammonia or soda solution. When the solution stops foaming, rinse with clear water.

D. Clean battery cable clamps with diluted ammonia or soda and rinse with clear water. Apply a thin coating of petrolatum to terminals and clamps, after installing clamps.

## SERVICE BRAKES

The fluid level in the master cylinder located at the left rear side of the engine compartment should be checked at each engine oil change interval. If necessary to add fluid, use Brake Fluid equivalent to Supreme No. 11. On all standard and power brakes, the fluid level must be maintained at 1/4" below the top of both sections of the reservoir, at the rear. Prevent entry of dirt into the master cylinder. See Periodic Maintenance Chart for checking brake warning light.

Brake linings should be periodically inspected for wear. The frequency of this inspection depends upon driving conditions such as traffic or terrain, and also the driving techniques of individual owners.

## BODY LUBRICATION POINTS

## HOOD LATCH

Lubricate the latch pilot bolts and latch locking plate with a thin film of lubriplate or equivalent. Use a light oil for pivot points.

## HOOD HINGES

**AT EVERY ENGINE OIL CHANGE** engine oil should be used to lubricate the hood hinges. Do not allow the oil to drop on fenders or other exposed painted surfaces.

## GAS TANK FILLER DOOR HINGE

Clean area of dirt and old lubricant. Apply a few drops of engine oil to friction points of door hinge. Work door several times and wipe off excess lubricant.

## WINDSHIELD WIPER TRANSMISSION BEARING

Lubricate windshield wiper transmission bearing with engine oil every 24,000 miles.

## DOOR LOCK FORK BOLT

Wipe off dirt and apply a thin coat of stick-type lubricant to top surface of lock bolt striker teeth indicated in Fig. 0-17. After lubrication, close door several times and remove excess lubricant along the side edge of teeth.

25001

# Fisher Body



**1970  
SERVICE  
MANUAL**

# SECTION 1

## GENERAL INFORMATION

### INDEX

Subject	Page	Subject	Page
Manual Description . . . . .	1-1	Removal . . . . .	1-10
Introduction . . . . .	1-1	Installation . . . . .	1-10
Index . . . . .	1-1	Paint Conditions . . . . .	1-11
Page and Figure Numbers . . . . .	1-1	Introduction . . . . .	1-11
Reference Tabs . . . . .	1-1	Blistering . . . . .	1-11
Text . . . . .	1-1	Blushing . . . . .	1-11
Illustrations . . . . .	1-1	Bull's-Eye . . . . .	1-11
Model Identification Chart . . . . .	1-2	Line-Checking . . . . .	1-12
Model Identification . . . . .	1-3	Chemical Discoloration . . . . .	1-12
Introduction . . . . .	1-3	Crazing . . . . .	1-12
Body Series Number . . . . .	1-3	Dirt in Paint . . . . .	1-13
Body Style Identification . . . . .	1-3	Dry Spray . . . . .	1-13
Body Style Name . . . . .	1-4	Etching . . . . .	1-13
Body Number Plate . . . . .	1-4	Fish-Eyes . . . . .	1-13
Vehicle Identification Number . . . . .	1-5	Mottling . . . . .	1-14
Lock Cylinder Coding . . . . .	1-5	Off-Color . . . . .	1-14
Five Bitting Level Lock Cylinder and Key . . . . .	1-5	Excessive Orange Peel . . . . .	1-14
Cutting Keys . . . . .	1-5	Overspray . . . . .	1-15
Replacement Lock Cylinders . . . . .	1-5	Pin-Holing . . . . .	1-15
Assembly and Coding Lock Cylinders . . . . .	1-5	Rust Spots . . . . .	1-15
Assembly and Coding Glove and Console . . . . .	1-5	Sand or File Marks . . . . .	1-15
Compartment Lock Cylinders . . . . .	1-7	Sand Scratch Swelling . . . . .	1-16
Glass Polishing . . . . .	1-8	Sweat Out or Bloom . . . . .	1-16
Removal of Minor Scratches and Abrasions . . . . .	1-8	Thin Paint . . . . .	1-16
Glass Polishing Procedure . . . . .	1-8	Water Spotting . . . . .	1-16
Wood Grain Transfer . . . . .	1-9	Wheel Burn . . . . .	1-17
Description . . . . .	1-9	Special Body Service Tools . . . . .	1-17

## MANUAL DESCRIPTION

### INTRODUCTION

This publication contains the essential removal, installation, adjustment and maintenance procedures for servicing all 1969 Fisher Body Styles. This information is current as of time of publication approval.

### INDEX

The preceding page contains a "Table of Contents" which lists the section number and subject title of each main body area section. The first page in each main body area section has an index to the subjects included in that section. An alphabetic index covering the entire manual is located in section 18.

### PAGE AND FIGURE NUMBERS

All page numbers and figure numbers consist of two sets of digits separated by a dash. The digits preceding the dash identify the main body area section. The digits following the dash represent the consecutive

page number or figure number within the particular body area section.

### REFERENCE TABS

The first page of each section is marked with a ready-reference black tab corresponding with the table of contents page.

### TEXT

Unless otherwise specified, each service procedure covers all body styles. Procedures covering specific styles are identified by the style number, body series number, body type letter or similar designation. A description of these designations is covered in this section under "Model Identification".

### ILLUSTRATIONS

Where possible, illustrations are placed in close proximity to the accompanying text and should be used as part of the text.

## MODEL IDENTIFICATION CHART

Division	Sales Name	Body Type	Series	Styles	
Chevrolet	Chevelle Nomad	A	13200	36	
	Chevelle "300" Deluxe	A	13400	36-37-46-69-80	
	Chevelle Malibu	A	13600	36-37-39-46-67-69-80	
	Chevelle - Concours Estate	A	13800	36-46	
	Chevelle - Monte Carlo	A	13800	57-67	
	Biscayne	B	15400	36-69	
	Bel Air	B	15600	36-37-46-69	
	Impala	B	16400	36-37-39-46-47-67-69	
	Caprice	B	16600	36-39-46-47	
	Nova	X	11400	27-69	
Pontiac	Tempest	A	23300	27-69	
	Tempest LeMans	A	23500	27-35-36-37-39-69	
	Tempest LeMans Sport	A	23700	27-36-37-39-67	
	Tempest GTO	A	24200	37-67	
	Catalina	B	25200	36-37-39-46-67-69	
	Executive	B	25600	37-39-36-46-69	
	Bonneville	B	26200	37-39-46-67-69	
	Grand Prix	G	27600	57	
	Oldsmobile	F-85	A	33200	77
		Cutlass	A	33600	35-36-39-69-77-87
Cutlass Supreme		A	34200	39-57-67	
442		A	34400	67-77-87	
Custom Vista-Cruiser		A	34800	55-56-65-66	
Delta 88		B	35400	37-39-67-69	
Delta Custom 88		B	36400	37-39-69	
Delta Royale 88		B	36600	47	
Ninety Eight		C	38400	39-57-67-69	
Ninety Eight Luxury		C	38600	39-69	
Toronado		E	39400	87	
Toronado Deluxe		E	39600	87	
Buick		Skylark	A	43300	27-69
	Sport Wagon	A	43400	35-36	
	GS	A	43400	37	
	Skylark 350	A	43500	37-69	
	Skylark Custom	A	44400	37-39-67-69	
	GS 450	A	44600	37-67	

## MODEL IDENTIFICATION CHART (Cont'd.)

Division	Sales Name	Body Type	Series	Styles
	Le Sabre	B	45200	37-39-69
	Le Sabre Custom	B	45400	37-39-67-69
	Estate Wagon	B	46000	36-46
	Le Sabre 455	B	46400	37-39-69
	Wildcat Custom	B	46600	37-39-67
	Electra " 225"	C	48200	39-57-69
	Electra " 225" Custom	C	48400	39-57-67-69
	Riviera	E	49400	87
Cadillac	Fleetwood Sixty Special	C	68000	69
	Fleetwood Brougham Sedan	C	68100	69
	Calais	C	68200	47-49
	DeVille	C	68300	47-49-67-69
	Fleetwood Seventy-Five	D	69700	23-33
	Eldorado	E	69300	47
GM of Canada Acadian	Acadian	X	71400	27-69
GM of Canada Pontiac	Strato Chief	B	75400	36-37-69
	Laurentian	B	75600	36-37-46-69
	Parisienne	B	76400	36-37-39-46-67-69
	Safari Estate Wagon	B	76600	36-46
	2 + 2	B	76800	37-67

## MODEL IDENTIFICATION

## INTRODUCTION

Due to the variety of body styles available, certain body styles have been grouped in this publication as an aid to identification. These group designations may be used individually or in various combinations. In addition to the model identification chart, an explanation of the principal categories follows:

## BODY SERIES NUMBER

The body series number may be used to indicate two possibilities:

Division -first digit and four zeros (ex. 10000 Chev-

rolet; 20000 Pontiac).

Division, Car Line and Style Group -first three digits and two zeros (ex. 25200 Catalina; 25600 Executive).

## BODY STYLE IDENTIFICATION

The last two digits of the body series number indicate body style type as follows:

STYLE	DESCRIPTION
23	4-Door - Limousine with Auxiliary Seat
27	2-Door - Notch Back - Pillar Coupe
33	4-Door - Limousine with Auxiliary Seat and Center Partition Window

- 35 4-Door - Station - 2 Seat - Single Acting Tail Gate
- 36 4-Door - Station Wagon - 2 Seat - Dual Acting Tail Gate
- 37 2-Door - Notch Back - Hardtop Coupe .
- 39 4-Door - Notch Back - Hardtop (4 Window) Sedan
- 46 4-Door - Station Wagon - 3 Seat - Dual Acting Tail Gate
- 47 2-Door - Notch Back - Hardtop Coupe
- 49 4-Door - Notch Back - Hardtop (4 Window) Sedan
- 55 4-Door - Station Wagon - 2 Seat - Single Acting Tail Gate
- 56 4-Door - Station Wagon - 2 Seat - Dual Acting Tail Gate
- 57 2-Door - Notch Back - Hardtop Coupe
- 65 4-Door - Station Wagon - 3 Seat - Single Acting Tail Gate
- 66 4-Door - Station Wagon - 3 Seat - Dual Acting Tail Gate
- 67 2-Door - Convertible Coupe
- 69 4-Door - Notch Back - Pillar (4 Window)Sedan
- 77 2-Door - Plain Back Pillar Coupe
- 87 2-Door - Plain Back - Hardtop Coupe

80 2-Door - Pick-Up Delivery

### BODY STYLE NAME

Body style names are used for group classification as follows (style numbers suffix shown in brackets):

#### Closed Style

- Two-door coupe (27,77)
- Four-door sedan (69)
- Limousine (23,33)

Hardtop Sport coupe hardtop (37, 47, 57, 87)  
Sedan hardtop (39, 49)

#### Station Wagon

- Station wagon two seat (35-36, less skylight; 55-56 with skylight)
- Station wagon three seat (46 less skylight; 65-66 with skylight)

Convertible Coupe (67)

Sedan Delivery (80)

## BODY NUMBER PLATE

The body number plate identifies the model year, car division, series, style, body assembly plant, body number, trim combination, paint code and date build code (Figs. 1-1 and 1-2). On all "A", "G" and Cadillac

"C & D" bodies, the plate is located on the left upper portion of the horizontal surface of the shroud. On all other bodies, the plate is located on the left upper portion of the vertical surface of the shroud.

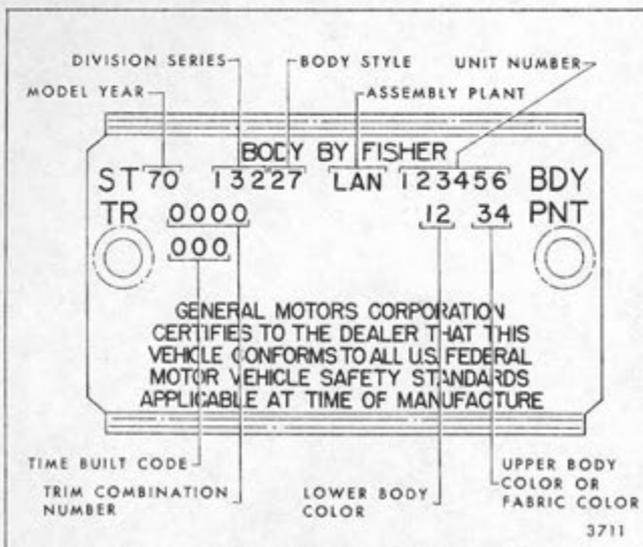


Fig. 1-1-Body Number Plate -U.S. Models

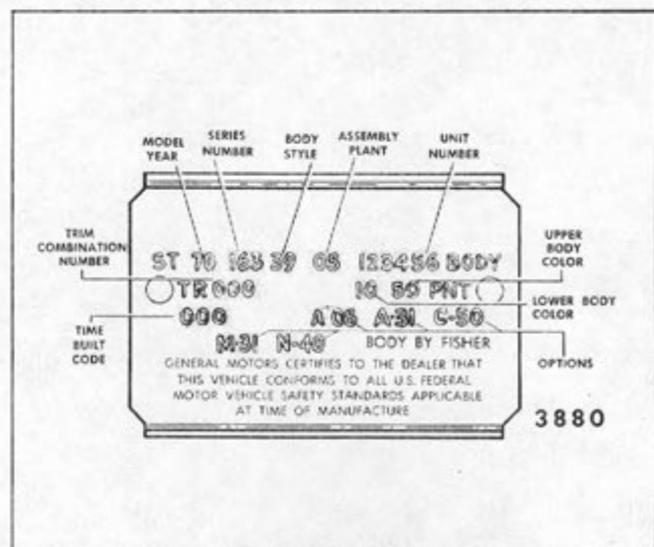


Fig. 1-2-Body Number Plate -Canadian Models

## VEHICLE IDENTIFICATION NUMBER

The Vehicle Identification Number (serial number) is located on the left horizontal surface of the instrument panel which is visible from outside the car (Figure 1-3 shows a typical installation).



Fig. 1-3-Typical Vehicle Identification Number

## LOCK CYLINDER CODING

### FIVE BITTING LEVEL LOCK CYLINDER AND KEY

All 1970 style cars are equipped with new lock cylinders and keys. The keyway has been revised so that prior model keys will not enter current model lock cylinders.

Two non-interchangeable keyways are used on 1970 model cars. One keyway, known as type "J", is used in all ignition, front door and station wagon tail gate lock cylinders. Type "J" keys will have a square head and be marked similar to keys used for 1969 styles, except that a capital letter "J" will be located on the shank just below the coining on the head, in place of capital letter "E". In addition, a code number within the series 0E00 to 9E99, or 0F00 to 9F99 will be stamped on the knock-out portion on the key-head. This number identifies the lock combination and is used when ordering or making new keys.

The second keyway, known as type "K", is used in the instrument panel compartment, console compartment, rear compartment, front compartment and station wagon rear floor compartment lock cylinders. Type "K" keys will have oval heads and will be similar to keys used for 1969 styles, except that a capital letter "K" will be stamped on the shank just below the coining on the head, in place of capital letter "H". In addition, a code number within the series 0G00 to 9G99, or 0H00 to 9H99 will be stamped on the knock-out portion of the key head. This number identifies the lock combination and is used when ordering or making new keys.

Keycode numbers are stamped on the "knockout"

plug in the key head (to facilitate replacement or duplication of key). After the code number has been recorded by the owner, the plugs should be knocked out of the key head. From these numbers, the lock combination can be determined by use of a code list (available to owners of key cutting equipment from equipment suppliers). If key code numbers are not available from records or from the "knock-out" plug, lock combination (tumbler numbers and position arrangement) can be determined by laying the key on the diagram in Figure 1-4.

### CUTTING KEYS

After the special code has been determined, either from the code list or the Key Code Diagram (Figure 1-4) cut a blank key to the proper level for each of the six tumbler positions, and check the key in the lock cylinder. The new key should agree with the combination opposite the code number in the code list.

### REPLACEMENT LOCK CYLINDERS

New lock cylinders are available from the servicing Parts Warehouse with the new lock cylinder locking bar staked in place. Tumblers are also available and must be assembled into the cylinder according to the procedure outlined below.

### ASSEMBLY AND CODING LOCK CYLINDERS-

#### ALL LOCK CYLINDERS EXCEPT GLOVE AND CONSOLE COMPARTMENTS

Tumblers for all locks except the glove and console