



ORIGINAL COPY

1972



PASSENGER CAR SPECIFICATIONS

CHEVROLET



ENGINEERING PRODUCT INFORMATION DEPARTMENT



WARREN

MICHIGAN

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RODUCTION

This book is intended primarily as a convenient and authoritative source of information for all Chevrolet executives, engineers, sales and service representatives, plant managers, and other personnel who must be in a position to answer technical questions about 1972 Chevrolet passenger cars. It also serves as a common source of those Chevrolet specifications that are needed in advertisements, vehicle comparisons, trade publications, license applications and in correspondence with governments, firms, educational institutions, and individuals throughout the world who require a wide variety of information about Chevrolet products for diverse purposes.

CHEVROLET
Al Burke
AL B. BURKE
Director - Engineering
Product Information
CAMARO

CORVETTE

VEGA 3300



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ORGANIZATION OF BOOK

The pattern followed in presenting information is that of the GM Uniform Parts Classification major groupings. The title page for each section lists the subjects in the order in which they appear in that section. The title for each section, such as CHASSIS, is printed at the bottom of each page beside the page number.

Tabs are provided for conveniently locating basic sections such as BODY, CHASSIS, and POWER TRAINS.

VEHICLES AND EQUIPMENT SPECIFIED

Specifications are those of all Chevrolet standard left drive passenger cars designed to be manufactured for the domestic (U.S.A.) open market. Included also are specifications of the RPO (Regular Production Option) units intended for use with these vehicles. All data are for vehicles or equipment built on COPO's (Central Office Production Orders) or any other special orders. Accessories released through the Parts and Accessories Department are listed although specifications are not included.

Information throughout the book is based on design data in effect at date of compilation and are subject to change without notice.

ABBREVIATIONS

Data are presented in a condensed tabular form which necessitates the use of abbreviations or symbols in some cases. See page IV.

LOCATION OR POSITION OF PARTS

Reference to the location or position of any engine part or vehicle unit is made from the driver seat position. Exceptions are clearly labelled or explained in the text of the specifications.

DIMENSIONS

Dimensions shown are of three types:

Type No. 1. Those dimensions where very accurate fits are essential in the parts concerned, such as bearing surfaces and splines, and where dimensions usually are expressed on drawings in decimals with very close limits.

Type No. 2. Those dimensions where accuracy of fit is of less importance, as in structural members such as frame parts, I-beam axles, or in fuel tanks; also, dimensions for the purpose of identification, such as cylinder bore, or diameter of the wheel cylinder piston, where dimensions are expressed in fractions or integers with fractions and to which fairly large tolerances (1/64, 1/16) are applied.

Type No. 3. Those dimensions, such as wheelbases, ground clearances, body size dimensions, and turning diameters, which are subject to large manufacturing variations.

In this book, the dimensions of type No. 1 are quoted with limits exactly as on the drawings while the dimensions of type No. 2 and No. 3 are quoted without manufacturing tolerances.

Unless specified otherwise all dimensions are in inches.

REVISIONS

Specification changes and the dates on which they occur are indicated on revised pages. A dot symbol is placed close to the revised specification. The revision date appears at the bottom of the page. Subsequent revisions on a revised page are indicated in the same manner. To emphasize and clarify the later changes, symbols pertaining to previous revisions are removed.

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ABBREVIATIONS AND SYMBOLS

ABBREVIATIONS

A

AC Spark Plug Division AC
 After Bottom Center ABC
 After Top Center ATC

B

Barrel bbi
 Before Bottom Center BBC
 Before Top Center BTC
 Brake Horsepower BHP

C

Candle Power CP
 Cubic Foot Cu.Ft.
 Cubic Inches Cu.In.

D

Daylight Opening DLO

G

Gallons Per Minute GPM

H

Heavy Duty HD
 Horsepower HP

I

Inside Diameter ID

M

Miles Per Hour MPH

O

Outside Diameter OD

P

Ply Rating PR
 Pounds Per Square Inch psi
 Powerglide P/G

R

Regular Production Option RPO
 Revolutions Per Mile rev/mi
 Revolutions Per Minute rpm

S

Society of Automotive Engineers SAE
 Society of Fuse Engineers SFE

T

Turbo Hydra-Matic TH-M

SYMBOLS

And &
 At @
 By, Times x
 Center Line C/L
 Degrees °
 Inches or Seconds " _o
 Minutes ' _o
 Per /
 Plus +
 To (Range) -
 To (Ratio) :

GENERAL

MODEL IDENTIFICATION	2
SERIAL NUMBERS AND IDENTIFICATION	3
EXTERIOR EQUIPMENT	4-5
INTERIOR EQUIPMENT	6-10
EXTRA COST EQUIPMENT	11-13
TAXI-CAB EQUIPMENT (RPO B02)	14
POLICE CAR EQUIPMENT (RPO B07)	15
AIR CONDITIONING EQUIPMENT	16

MODEL IDENTIFICATION

BISCAYNE 153-15400 SERIES*

MODEL 153-15469 4-DOOR SEDAN, 6-PASSENGER

BEL AIR 155-15600 SERIES*

MODEL 155-15669 4-DOOR SEDAN, 6-PASSENGER

IMPALA 163-16400 SERIES*

MODEL 163-16457 2-DOOR SPORT COUPE, 5-PASSENGER
MODEL 16447 2-DOOR CUSTOM COUPE, 5-PASSENGER
MODEL 16467 2-DOOR CONVERTIBLE, 5-PASSENGER
MODEL 163-16469 4-DOOR SEDAN, 6-PASSENGER
MODEL 16439 4-DOOR SPORT SEDAN, 6-PASSENGER

CAPRICE 16600 SERIES*

MODEL 16647 2-DOOR CUSTOM COUPE, 5-PASSENGER
MODEL 16639 4-DOOR SPORT SEDAN, 6-PASSENGER
MODEL 16669 4-DOOR SEDAN, 6-PASSENGER ●

CHEVROLET STATION WAGONS

MODEL 15435 BROOKWOOD 4-DR STA WGN, 2-SEAT
MODEL 15635 TOWNSMAN 4-DR STA WGN, 3-SEAT
MODEL 15645 TOWNSMAN 4-DR STA WGN, 3-SEAT
MODEL 16435 KINGSWOOD 4-DOOR STATION WAGON, 2-SEAT
MODEL 16445 KINGSWOOD 4-DOOR STATION WAGON, 3-SEAT
MODEL 16635 KINGSWOOD ESTATE 4-DR STA WGN, 2-SEAT
MODEL 16645 KINGSWOOD ESTATE 4-DR STA WGN, 3-SEAT

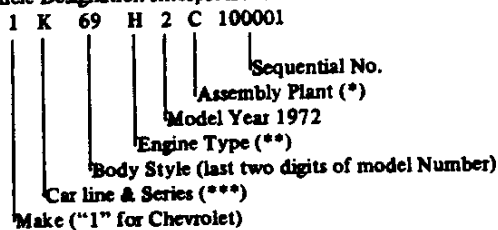
● * 153-155-16300 models not to be merchandised after January 1, 1972

SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

VEHICLE IDENTIFICATION NUMBER

Vehicle Designation Interpretation



- | | |
|---------------------|-------------------------|
| *D - Doraville-GMAD | T - Tarrytown-GMAD |
| J - Janesville-GMAD | Y - Wilmington-GMAD |
| C - Southgate-GMAD | S - St. Louis-Chevrolet |

Canadian Plant

No. 1 Oshawa

- | | |
|-------------------------|-----------------------|
| **D - L6-250 (110 H.P.) | W - V8-454 (270 H.P.) |
| H - V8-350 (165 H.P.) | Passenger Vehicles |
| R - V8-400 (170 H.P.) | V - V8-454 (230 H.P.) |
| S - V8-402 (210 H.P.) | Station Wagons |

- | | |
|-----------------------------|--------------------------------|
| ***K - Biscayne & Brookwood | M - Impala & Kingswood |
| L - Bel Air & Townsman | N - Caprice & Kingswood Estate |

EXAMPLE: The twenty-fifth Chevrolet vehicle built at GMAD Southgate if it were a 15469 model (Biscayne Sedan) with a V8-350 (165 H.P.) engine would bear VIN number 1K69H2C100025.

Location Stamped on plate attached to top left hand of instrument panel.

TRANSMISSION IDENTIFICATION

● Example: R3S2E01

Type	Source	Model Year	Production ^o
Designation	Designation	1972	Month & Date
R3	S (Muncie)	2	E01D*
R3	3-Speed	L-6 engine	S - Muncie
RB	Powerglide	L-6 engine	C - Cleveland
SD	Turbo Hydra-matic	V-8 engine	B - Cleveland Y - Toledo
CA	Turbo Hydra-matic	V-8 engine	- - Ypsilanti

Location:

3-Speed Stamped on right rear of transmission case.

Powerglide & Turbo Hydra-Matic (Chevrolet) Stamped on right hand side of pan.

Turbo Hydra-Matic Nameplate tag on right hand side of the case.

^oMonth: E denotes May; (see below) 01 denotes 1st day
Alpha Characters used in identifying the calendar Month

- | | | | |
|--------------|-----------|---------------|--------------|
| A - January | D - April | K - July | R - October |
| B - February | E - May | M - August | S - November |
| C - March | H - June | P - September | T - December |

*The letter "D" or "N" following the date numerals indicates day or night shift, on automatic only.

ENGINE IDENTIFICATION

Example: F1210CNJ

Source	Production*	Type
Designation	Month & Date	Designation
F (Flint)	1210	CNJ

Turbo-Thrift 250, 250 Cubic Inch L-6, Base Engine

- CNJ - Regular production engine, 3-speed
- CBJ - Regular production engine, Powerglide

Turbo-Fire 350, 350 Cubic Inch V-8, Base Engine

- CKB - Regular production engine, Turbo Hydra-matic

Turbo-Fire 400, 400 Cubic Inch V-8 (RPO-LF6)

- CKP - Optional, Turbo Hydra-matic, 2-bbl. carb.

Turbo-Jet 400, 402 Cubic Inch V-8 (RPO-LS3)

- CLB - Optional, Turbo Hydra-matic, 4-bbl. carb.

Turbo-Jet 454, 454 Cubic Inch V-8 (RPO-LS5)

- CPD - Optional, Turbo Hydra-Matic, 4-bbl. carb.

Location:

- 6-cylinder engine Stamped on pad on right side of cylinder block to rear of distributor
- 8-cylinder engine Stamped on pad at front right side of cylinder block

^oMonth: December, 12; 10th day of December, 10

REAR AXLE IDENTIFICATION

Location, Identification Number

Bottom left or right of axle tube adjacent to carrier housing.

See Power Train Section for additional information.

EXTERIOR EQUIPMENT

STANDARD EXTERIOR EQUIPMENT

	Biscayne 153-15400	Bel Air 155-15600	Impala 163-16400	Caprice 16600
FRONT				
Windshield Reveal Moldings	X	X	X	X
Parking and Turn Lamps in Bumper	X	X	X	X
Black Upper and Lower Plastic Radiator Grilles, Argent Accents With Emblem on Grille	X (a)	X (a)	X (a)	X (b)
Bright Headlamp Bezels	X	X	X	X
Bow-Tie Emblem on Header Panel	X	X	X	
Caprice Emblem on Header Panel				X
Concealed Windshield Wipers with Articulated Left Arm	X	X	X	X
SIDE				
Front Fender Marker and Rear Quarter Marker Lamps	X	X	X	X
Front Fender Series Nameplate	X	X		
Rectangular 5" Outside L.H. Rear View Mirror	X	X	X	X
Rocker Panel Moldings—Bright	X	X		
Body Side Molding—Paint Insert				X
Body Side Molding—PVC Insert			47	
Body Side Molding—Bright			Exc. 47	
Flush Door Handle—Bright	X	X	X	X
Sail Panel Series Nameplate			Exc. 67	X
Quarter Panel Series Nameplate			67	
● Roof Rail Weatherstrip Moldings—Bright			39,47,57	39, 47
Rear Fender Opening Covers				X
Wheel Trim Covers, Black Wheels				X
Hub Caps, Body Color Wheels	X	X	X	
Roof Drip Moldings—Bright			Exc. 67	X
● Door Upper Frame Reveal Moldings—Bright			69	69
Wheel Opening Moldings			47	X
Rear Belt Molding			67	
Roof Sail Panel Molding			47	47
REAR				
Deck Lid Name—"Chevrolet"	X	X	X	
Deck Lid Nameplate—"Caprice" with Bow-Tie				X
Rear Window Reveal Moldings—Bright	X	X	Exc. 67	X
Four Tail and Stop Lamps and Two Back-Up Lamps in Bumper	X	X	X	X
Body Rear End Moldings				X

(a) Block letters on plaque emblem

(b) Script emblem on specific design plastic chrome plated grille

EXTERIOR EQUIPMENT

STANDARD EXTERIOR EQUIPMENT STATION WAGONS

	Brookwood 15400	Townsmen 15600	Kingswood 16400	Kingswood Estate 16600
FRONT				
Windshield Reveal Moldings - Bright	X	X	X	X
Hood Rear and Fender Moldings - Bright	X	X	X	X
Parking and Turn Lamps in Bumper	X	X	X	X
Black Upper and Lower Plastic Radiator Grilles				
Argent Accents With Emblem on Grille	X (a)	X (a)	X (a)	X (b)
Bright Headlamp Bezels	X	X	X	X
Bow-Tie Emblem on Header Panel	X	X	X	X
Concealed Windshield Wipers With Articulated Left Arm	X	X	X	X
SIDE				
Front Fender Marker and Rear Quarter Marker Lamps	X	X	X	X
Rectangular 5" Outside L.H. and R.H. Rear View Mirror	X	X	X	X
Rocker Panel Moldings-Bright	X	X		
Roof Drip Moldings-Bright			X	X
Wheel Trim Covers - Caprice type, Black Wheels				X
Hub Caps, Body Color Wheels	X	X	X	
Flush Door Handle-Bright	X	X	X	X
Door Upper Frame Reveal Moldings-Bright			X	X
Rear Quarter Window Reveal Molding-Bright			X	X
Rear Quarter Window Reveal Molding-Painted	X	X		
Body Side Wood-Grain Insert and Limed Oak				
Border Moldings				X
Rear Quarter Series Nameplate	X	X	X	X
Body Side Molding-Bright			X	
REAR				
Tailgate Nameplate-"Chevrolet"	X	X	X	X
Tailgate Wood-Grain Insert and Limed Oak Moldings				X
Tailgate Window Scalp and Reveal Moldings-Bright	X (d)	X (d)	X	X
Tailgate Belt Molding-Bright	X	X	X	X
Single Tail and Back-Up Lamps in Body	X	X	X	X
Tailgate Lower Moldings-Bright			X	
Tailgate Lift Handle - Bright	X	X	X	X
Electric Tailgate Window Control-Bright	X	X	X	X

(a) Block letters on plaque emblem

(b) Script emblem on specific design plastic chrome plated grille

(d) Body color

INTERIOR EQUIPMENT

STANDARD INTERIOR EQUIPMENT

	Biscayne 153-15400	Bel Air 155-15600	Impala 163-16400	Caprice 16600
ROOF AND PILLARS				
Headlining Vinyl Coated, "Premier" Perforated	X	X	Exc. 67	X
Rear View Mirror, 12" Prismatic with Gray Padded Edges	X	X	X	X
Rear View Mirror Support, Bonded to W/S Silver Painted	X	X	X	X
● Windlace—Woven Fabric	X	X	69	69
● Windlace—Coated Fabric			Exc. 69	Exc. 69
Sunshade, Thin Padded, Non-Hook	X	X	Exc. 67	X
Sunshade, Thin Padded, Center Hook Type			67	
Roof Side Rail Garnish Moldings—Painted Metal	X	X	Exc. 67	X
● Rear Window Moldings—Painted Metal			39,47,57	39,47
● Rear Window Upper & Side Moldings—Plastic	X	X	69	69
Windshield Garnish Moldings—Painted Metal	X	X	X	X
Center Pillar Lower Finish Panel, Molded Plastic	X	X	39,69	39
● Center Pillar Upper Molding—Molded Plastic	X	X	69	69
Center Pillar Cover Molding—Plastic			39	39
Coat Hooks, Plastic—Trim Color	X	X	Exc. 67	X
Center Dome Light—Plastic	X	X	Exc. 67	X
Front Door Jamb Switch, Key Reminder and Dome Lamp, L.H. Pillar	X	X	X	X
Front Door Jamb Switch for Dome Lamp R.H. Pillar	X	X	X	X
● Rear Door Jamb Switches				39, 69
Roof Rail Shoulder Harness Spring Clips and Anchor Covers	X	X	Exc. 67	X

INTERIOR EQUIPMENT

STANDARD INTERIOR EQUIPMENT

	Biscayne 153-15400	Bel Air 155-15600	Impala 163-16400	Caprice 16600
SEATS AND FLOOR COVERING				
Front Seat Cushion and Backrest, Full Molded Foam	X	X	X	X
Rear Seat Backrest, Full Molded Foam	X	X	X	X
Rear Seat Cushion, 1.75" Poly and Cotton	X	X	X	X
● Package Shelf Embossed Board	X	X	Exc 47 & 67	39, 69
Package Shelf Woven Fiber			47	47
Folding Front Seat Back Locks—Bright			47,57,67	47
● Front Seat Center Armrest				39,69
Carpet—Floor Covering	X	X	X	X
Luggage Compartment Light			X	X
Luggage Compartment Spatter Paint	X	X	X	X
Luggage Compartment Mat—Vinyl Coated Cotton on Latex Foam			X	X
Front Seat End Trim Panels—Bright				X
Front and Rear Seat Belts and Front Retainers	X	X	X	X
Locking Retractors for Front and Rear Seat				
Outboard Lap Belts	X	X	X	X
Front Seat Shoulder Harness	X	X	X	X
Front Seat Head Restraints	X	X	X	X
DOOR AND QUARTER PANEL				
Plastic Molded Front Door Lower Panel, Integral Armrest	X	X	X	X
● Plastic Molded Rear Door Integral Armrest with Ash Tray	X	X	39,69	39, 69
Bale Type Door Handle Remote Control	X	X	X	X
Door Bead Trim Moldings			X	X
Rear Quarter Window Bead Trim Moldings			47,57,67	47
Rear Quarter Panel Built-in Armrest and Ash Tray		47,57,67	47	
Window Control Handle Knobs, Clear Plastic	X	X	X	X
Door Lock Buttons—Bright	X	X	X	X
Door Trim Panel Carpet				X
Door Trim Panel Emblem	X	X	X	X
Wood-Grain Door Panel Inserts, Bright Trim			X	X
Front and Rear Door Locks 2-Position Free Wheeling	X	X	X	X

INTERIOR EQUIPMENT

STANDARD INTERIOR EQUIPMENT

	Biscayne 153-15400	Bel Air 155-15600	Impala 163-16400	Caprice 16600
INSTRUMENT PANELS AND STEERING WHEELS				
Glove Compartment Light		X	X	X
Cigarette Lighter	X	X	X	X
Clock, Electric				
Clock Hole Cover	X	X	X	
Instrument Panel Cluster, Black Symbol Type Knobs	X	X	X	X
Convertible Top Switch			67	
Instrument Panel Pad-Upper	X	X	X	X
Instrument Panel Upper Trim Plate with Series Nameplate	X (a)	X (a)	X (b)	X (c)
Ash Tray Face Plate-Painted	X	X	X	X
Windshield Wiper and Washer, Two Speed	X	X	X	X
Upper Ventilation Outlets and Controls-Black	X	X	X	X
Instrument Panel Courtesy Lights			67	X
Turn Signal and Shift Lever Knobs-Black	X	X	X	X
Steering Column Ignition Lock	X	X	X	X
Steering Wheel, Black Oval-Black Shroud Insert and Emblem	X	X	X	X (d)
Instrument Cluster Wood-Grain Trim				X
GLASS				
Windshield, Laminated Safety Plate Glass	X	X	X	X
Backlight Safety Solid Plate Glass	X	X	X	X
Side Windows, Safety Solid Plate Glass	X	X	X	X
Convertible Rear Window, Tempered Glass			67	

(a) Bright, Black Paint Filled

(b) Bright-Combination Black Paint and Wood-Grain

(c) Bright-Full Wood Grain

(d) Wood-Grain Shroud Insert on Caprice

INTERIOR EQUIPMENT

STANDARD INTERIOR EQUIPMENT STATION WAGONS

	Brookwood	Townsmen	Kingswood	Kingswood Estate
ROOF AND PILLARS				
Headlining Vinyl Coated, "Premier" Perforated	X	X	X	X
Rear View Mirror, 12" Prismatic with Gray Padded Edges	X	X	X	X
Rear View Mirror Support, Bonded to W/S Silver Painted	X	X	X	X
Windlace—Woven Fabric	X	X	X	X
Sunshade, Thin Padded, Non-Hook	X	X	X	X
Windshield Garnish Moldings—Painted Metal	X	X	X	X
Roof Side Rail Garnish Moldings—Painted Metal	X	X	X	X
Quarter Window Garnish Moldings—Painted Metal	X	X	X	X
Center and Rear Door Pillar Upper and Lower Finish Panels, Molded Plastic	X	X	X	X
Coat Hooks, Plastic—Trim Color	X	X	X	X
Center Dome Light—Plastic	X	X	X	X
Front Door Jamb Switch, Key Reminder and Dome Lamp, L.H. Pillar	X	X	X	X
Front Door Jamb Switch for Dome Lamp, R.H. Pillar	X	X	X	X
Rear Door Jamb Switches				X
Roof Rail Shoulder Harness Spring Clips and Anchor Covers, . . .	X	X	X	X
SEATS AND FLOOR COVERING				
Front Seat Cushion and Backrest, Full Molded Foam	X	X	X	X
Rear Seat Backrest, Full Molded Foam	X	X	X	X
Rear Seat Cushion, 1.75" Poly and Cotton	X	X	X	X
Third Seat Cushion and Backrest, Full Molded Foam		X	X	X
Carpet—Floor Covering	X	X	X	X
Load Floor—Vinyl Coated Textured Metal	X	X	X	X
Storage Compartment Mat—Rubber	X	X	X	X
Front and Rear Seat Belts and Front Retainers	X	X	X	X
Locking Retractors for Front and Rear (2nd) Seat Outboard Lap Belts	X	X	X	X
Front Seat Shoulder Harness	X	X	X	X
Front Seat Head Restraints	X	X	X	X

INTERIOR EQUIPMENT

STANDARD INTERIOR EQUIPMENT STATION WAGONS

	Brookwood	Townsmen	Kingswood	Kingswood Estate
DOOR AND QUARTER PANEL				
Plastic Molded Front Door Lower Panel, Integral Armrest	X	X	X	X
Plastic Molded Rear Door Integral Armrest with Ash Tray	X	X	X	X
Bale Type Door Handle Remote Control	X	X	X	X
Door Bead Trim Moldings			X	X
Window Control Handle Knobs, Clear Plastic	X	X	X	X
Door Lock Buttons—Bright	X	X	X	X
Door Trim Panel Emblem	X	X	X	X
Wood-Grain Door Panel Inserts, Bright Trim			X	X
Rear Quarter Sidewalls—Molded Plastic	X	X	X	
Rear Quarter Sidewalls—Vinyl Trimmed				X
Front and Rear Door Locks 2-Position Free Wheeling	X	X	X	X
INSTRUMENT PANEL AND STEERING WHEELS				
Glove Compartment Light		X	X	X
Cigarette Lighter	X	X	X	X
Clock, Electric				X
Clock Hole Cover	X	X	X	
Instrument Panel Cluster—Black Symbol Type Knobs	X	X	X	X
Tailgate Window Switch	X	X	X	X
Instrument Panel Pad—Upper	X	X	X	X
Instrument Panel Upper Trim Plate with Series Nameplate	X (a)	X (a)	X (b)	X (b)
Ash Tray Face Plate—Painted	X	X	X	X
Windshield Wiper and Washer, Two Speed	X	X	X	X
Upper Ventilation Outlets and Controls—Black	X	X	X	X
Instrument Panel Courtesy Lights				X
Turn Signal and Shift Lever Knobs—Black	X	X	X	X
Steering Column Ignition Lock	X	X	X	X
Steering Wheel, Black Oval—Black Shroud Insert and Bright Chevrolet Script	X	X	X	X (c)
Instrument Panel Wood-Grain Trim				X
GLASS (F)				
Windshield Laminated Safety Plate Glass	X	X	X	X
Backlight, Safety Solid Plate Glass	X	X	X	X
Side Windows, Safety Solid Plate Glass	X	X	X	X

- (a) Bright, Black Paint Filled Plastic, Chevrolet script
- (b) Bright-Wood Grain, Kingswood script
- (c) Wood-Grain Shroud Insert and Kingswood script

EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
Air conditioning, Four-Season	C60	
Air conditioning, Comfortron: automatic temperature control	C61	
Audio theft alarm		ACC
Battery, heavy duty	T60	
Battery warmer		ACC
Belts, seat and shoulder: in addition to or replacing standard belts.		
Custom deluxe belts: (replacing standard number of belts)		
Coupe and Sedan - 6 seat and 2 shoulder	AK1	
Convertible - 6 seat	A39	
Shoulder belts - 2 rear:		
(Convertible requires use of front shoulder belt option).		
For use when Custom Deluxe Belts are ordered		ACC
Brakes, heavy duty	J55	
Buckle retainer, seat belt and harness		ACC
Carpet, Load floor, loose (All Wagons)	B44	
Cap, locking gas filler		ACC
Carrier, rear deck		ACC
Compass		ACC
Cover, luggage carrier-wagon		ACC
Deflectors, rain, (4-door sedans & wagons - door "ventshades")		ACC
Dispenser, Tissue		ACC
Exhaust, Dual (Except Station Wagons)	N10	
Fire extinguisher		ACC
Generator: 63-amp Delcotron	K85	
Glass, Soft-Ray tinted: all windows (includes W/S radio antenna)	A01	
Glass, windshield - tinted (Fleet only - includes radio antenna)	A02	
Heater, engine block		ACC
Hitch, trailer		ACC
Hitch, trailer, equalizing type		ACC
Highway Emergency Kit - fire extinguisher, tire inflator, fuses		ACC
Interior car warmer		ACC
Lamp, portable spot		ACC
Lighting, auxiliary:	ZJ9	
Courtesy lights - Std. Imp. Conv. Caprice, Kingswood Estate		
Glove compartment light - Std all exc. Biscayne & Brookwood		
Luggage compartment light - Std Impala & Caprice		
Ash tray light - Standard Caprice & Kingswood Estate		ACC
Underhood light		ACC
Litter container		ACC
Lock, rear door safety		ACC
Mat, front floor full width		ACC
Mat, rear load floor-wagon		ACC
Mirror, RH (Standard on Station Wagons)		ACC
Molding, adhesive backed vinyl (38 ft. roll)		ACC
● Molding, Bright Roof Drip (Bel Air, Biscayne, Townsman and Brookwood)	B80	
Molding, side - vinyl (Fleet vehicles)		ACC
Moldings, body side - vinyl insert (Except Kingswood Estate and Impala Custom)	B84	
● Moldings, Wheel Opening (Kingswood and Impala Except Impala Custom)	B96	
Monitor, windshield washer fluid		ACC
Police car equipment (See Page 15)		
Chassis Equipment	B07	
Body Equipment	BY2	

EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
Radiator, heavy duty	V01	
Radiator overflow unit		ACC
Radio equipment: Radios, Pushbutton - Includes concealed w/s antenna		
AM Radio	U63	ACC
AM/FM Radio	U69	ACC
AM/FM/Stereo Radio	U79	ACC
Citizens Band Radio - Six Channel		ACC
Stereo Tape System with AM Radio	UM1	ACC
Stereo Tape System with AM/FM/Stereo Radio	UM2	ACC
Mast antenna, RH front fender		ACC
Speaker, rear seat (not available when stereo is ordered)	U80	ACC
Windshield antenna	U76	
Rear compartment lock - Wagon	A96	ACC
Roof cover, vinyl (Black, White, Med. Green, Med. Blue, Light Covert)	C08	
Roof luggage carrier-Wagon	V55	ACC
Safety seat - child (standard and deluxe types available)		ACC
Safety seat - infant		ACC
Shock absorbers, rear:		
Superlift	G66	
Ski Rack-roof carrier mount		ACC
Skirts, rear fender. Standard on Caprice	T58	
Speed control: (Cruise-Master)	K30	ACC
Steering wheel, Comfortilt	N33	
Steering wheel, vinyl rim	NK2	
Strips - impact - FR. and RR. bumper	VE5	
● Suspension, special, front and rear	F40	
● Taxi equipment (See Page 14)	B02	
Top, convertible: Optional colors	C05	
Two-Tone finish: includes bright metal outline moldings	D99	
Wheel covers, full: (Not available on Caprice or Kingswood Estate)	P01	
Wheel covers, special	P02	
Wheel covers, simulated wire		ACC
Wheel covers, simulated "mag"		ACC
FACTORY-INSTALLED REGULAR PRODUCTION TIRES		
F78 x 15B bias belted ply blackwall - Except Wagon (Base)	PV3	
F78 x 15B bias belted ply white stripe - Except Wagon	PV4	
G78 x 15B bias belted ply blackwall - Except Wagon (Base)	PU7	
G78 x 15B bias belted ply white stripe - Except Wagon	PU8	
H78 x 15B bias belted ply blackwall - Except Wagon	PV5	
H78 x 15B bias belted ply white stripe - Except Wagon	PV6	
8.55 x 15B Police nylon blackwall - Except Wagon (Incl. in RPO B07)	Q13	
L78 x 15B bias belted blackwall - Wagon (Base)	Q15	
L78 x 15B bias belted ply white stripe - Wagon	Q14	
L78 x 15D bias belted ply blackwall - Wagon	QB7	
L78 x 15D bias belted ply white stripe - Wagon	QB6	

EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
FEATURE GROUPS		
(Any item contained in a feature group may be ordered separately)		
Appearance guard group	ZP5	
Front and rear bumper guards	V30	ACC
Door edge guards (Not available on Kingswood Estate)	B93	ACC
Color-keyed floor mats - 2 Front, 2 Rear	B37	ACC
Visor vanity mirror	D34	ACC
Operating convenience group	ZQ2	
Electric clock (Standard on Caprice & Kingswood Estate)	U35	ACC
Rear window defroster (Forced Air)	C50	ACC
L.H. outside remote-control rearview mirror	D33	ACC
POWER TEAMS		
Turbo-Fire 400 V8 (Standard on Caprice & Kingswood Estate)	LF6	
Turbo-Jet 402 V-8 (Not available in California)	LS3	
Turbo-Jet 454 V8 (Not available in California)	LS5	
● Turbo Hydra-matic	M40	
Axle, Positraction	G80	
Axle, trailering ratio	YD1	
Axle, performance (mountain) ratio	ZQ9	
POWER ASSISTS		
Door lock system, power	AU3	
Seat, power: 6-way front seat (Not available on Biscayne or Brookwood)	A42	
Tailgate, power - Wagon	C26	
Windows, power (Not available on Biscayne or Brookwood)	A31	
Trunk opener (Sedans and Coupes)		ACC

TAXI-CAB-RPO B02

1972 TAXI EQUIPMENT - RPO B02

Biscayne 4-Door Sedan L-6 (15369)* NA in California
Biscayne 4-Door Sedan V-8 (15469)

BODY

- Heavy duty front seat cushion
Heavy duty rear seat cushion
Heavy duty black rubber full width floor mats, front and rear.
RH rear door inside pull handle.
Door open warning light on instrument panel for all doors.
Roof wiring

CHASSIS

Heavy duty body mounts
Heavy duty front and rear suspension (RPO F40 forced on).
Heavy duty rear axle.

HEAVY DUTY POWER TEAM EQUIPMENT

Engine and automatic transmission include special duty features.
42-Amp Delcotron generator. (63 amp with air conditioning on V-8, or available separately as RPO K85 for both L-6 or V-8.)
Heavy duty Delco Eye battery, 61 amp hr. added for L-6 (Std. on V-8)
Engine coolant recovery system.
Heavy duty radiator (RPO V01 forced on).

HEAVY DUTY POWER TRAIN

Engine	Transmission	Rear Axle
250 Cu.In. L-6*	Powerglide (M35)*	3.08:1
350 Cu.In. V-8	Turbo Hydra-matic (CBC Base)	3.08:1

- *-L-6 model with 3-speed manual or Powerglide transmission not to be merchandised after January 1, 1972.

POLICE CAR EQUIPMENT - RPO B07 & BY2

Biscayne (15469), Bel Air (15669) 4-Door Sedans
 Impala 4-Door Sedan (16469), Sport Coupe (16457)
 Brookwood (15435) Townsman (15635-45) Kingswood (16435-45)
 Station Wagons

RPO B07 POLICE CHASSIS EQUIPMENT

Heavy duty body mounts
 Special front and rear suspension (RPO F40 forced on).
 Heavy duty rear axle (RPO YD1 forced on).
 Heavy duty engine and automatic transmission features
 42-Amp Delcotron Generator (63 amp included in air conditioning or
 available separately as RPO K85).
 Heavy duty 80 amp hr. battery (RPO T60 forced on).
 Radio suppression equipment.
 Heavy duty radiator (RPO V01 forced on).
 Engine coolant recovery system.
 Temperature controlled 7-blade fan added for models without air
 conditioning
 Heavy duty 15 x 6 wheels added for sedans/coupes (standard on wagons)
 Special 140 MPH speedometer, 2 mph increments, accurate within
 2 MPH over full range.

POWER TRAIN AVAILABILITY WITH RPO B07

Engine	Transmission	Rear Axle
350 Cu.In. V-8 (base)	Turbo Hydra-matic (CBC-Base)	3.42:1
400 Cu.In. V-8 (LF6)	Turbo Hydra-matic (CBC-Base)	3.42:1
402 Cu.In. V-8 (LS3)*	Turbo Hydra-matic (M40)	3.08:1
454 Cu.In. V-8 (LS5)*	Turbo Hydra-matic (M40)	3.08:1

*With these engines, police high speed pursuit package for Sedans and
 Coupes includes:

Special prop shaft balancing
 Rear suspension stabilizer bar (except wagons)
 Heavy duty front and rear brakes (RPO J55 forced on)
 8.55 x 15 B nylon police high-speed tires (Except wagons)
 Special firm control power steering

RPO BY2 POLICE BODY EQUIPMENT (RPO B07 must also be ordered)

Heavy duty, low-profile, front seat cushion.
 Full width, front and rear, black rubber floor mats reinforced in
 critical wear areas (front only for station wagons).
 Urethane foam between roof inner and outer panels to support roof
 mounted police equipment up to 15 pounds.
 Roof wiring (four 12 ga. wires routed from above headlining to below
 instrument panel).

AIR CONDITIONING

COMFORTRON AUTOMATIC TEMPERATURE CONTROL (RPO C61)

Integral air cooling and heater system. Used only with RPO C60 system. Automatically controlled by pre-setting on instrument control panel. Control assembly consists of horizontal lever and vertical temperature wheel. In-car sensor located on instrument panel; ambient sensor located beneath air intake cowl.

FOUR SEASON (RPO C60)

Integral air cooling and heater system. Manually controlled by two horizontal levers on instrument control panel plus 4-speed fan switch. Upper lever (mode selector control) uses vacuum supply and electrical switches to operate mode doors and compressor. Lower lever uses bowden cable to operate temperature door. Six air outlets: 2 center, 2 side, 2 lower.

BASIC COMPONENTS

Control panel, evaporator, blower, condenser, receiver-dehydrator, refrigerant (freon) tank, air intake assembly and duct assembly for both systems. Comfortron also includes sensors, transducer and power servo unit for automatic operation.

EQUIPMENT (Used in addition to or in place of base equipment)

CHASSIS

Front and Rear Springs Heavy duty

POWER TRAINS

Fan Blade 7 blade
Fan Clutch Thermomodulated fluid coupling
Crankshaft Pulley Dual
Water Pump & Fan Pulley Single
Compressor & Crankshaft Belt One
Generator 63 Ampere
Radiator Heavy duty

DIMENSIONS AND WEIGHTS

INTERIOR DIMENSIONS	2
LUGGAGE CAPACITY	2
STATION WAGON CARGO SPACE	2
EXTERIOR DIMENSIONS	3
VEHICLE WEIGHTS	4 & 5

INTERIOR DIMENSIONS

FRONT COMPARTMENT

CODE	DESCRIPTION	SEDAN		COUPES		CONVERT. IBLE	STATION WAGON
		Std.	Sport	Sport	Custom		
H-3	Seat cushion height			11.0			10.9
H11	Entrance height	30.9	30.7	30.6		30.9	30.9
H13	Steering wheel thigh clearance			4.8			4.5
H30	H point to heel point			8.2			
H32	Seat cushion deflection			4.4			4.2
H50	Upper body opening to ground	49.9	49.6	49.5		49.2	50.2
H58	H point rise			0.7			
H61	Effective headroom	38.9	38.4	38.1	38.1	38.9	39.6
H70	H point to body O line			13.1			
H75	Effective "T" point headroom	39.0	38.4	38.1	38.2	39.0	39.6
W3	Shoulder room			64.3			
W5	Hip room			62.0			
L7	Steering wheel torso clearance			13.1			13.0
L17	H point travel			5.8			
L34	Effective leg room			42.5			

REAR COMPARTMENT

H8	Seat cushion height	13.6		13.8			14.0
H12	Entrance height	31.0	30.3	---			30.3
H31	H point to heel point	11.2		10.8			12.0
H33	Seat cushion deflection	4.0	4.9	4.1			4.5
H51	Upper body opening to ground	49.3	48.7	---			50.1
H63	Effective headroom	38.0	37.4	37.1		38.1	39.4
H71	H point to body O line	12.6		12.2			13.5
H76	Effective "T" point headroom	37.9	37.4	37.0	37.1	38.1	39.3
W4	Shoulder room	63.5	63.3	61.4	62.1	61.7	63.5
W6	Hip room	61.9		56.2			62.2
L3	Rear compartment room	29.4		27.1			28.0
L50	H point couple distance	36.1		33.1			34.6
L51	Effective leg room	39.2		36.4			37.9

STATION WAGON THIRD SEAT

W85	Shoulder room						48.8
W86	Hip room						48.2
H86	Effective headroom						37.8
L86	Effective leg room						35.6
L87	Knee room						7.8

LUGGAGE COMPARTMENT

H195	Liftover height	27.5	27.6	27.1	27.0	27.2	
V1	Usable luggage capacity (cu.ft.)	17.7		17.2		15.4	

STATION WAGON CARGO SPACE

H201	Maximum cargo height						30.6
H202	Rear opening height						29.5
H250	Tailgate to ground height						21.8
W200	Cargo width-front						63.1
W201	Cargo width-wheelhouse						48.8
W203	Rear opening width at floor						48.8
W204	Rear opening width at belt						42.0
W205	Rear opening width above belt						42.0
L200	Maximum cargo length-front seat						100.0
L201	Maximum cargo length-second seat						58.3 (a)
L202	Cargo length at floor-front seat						100.5
L203	Cargo length at floor-second seat						58.9 (b)
L204	Cargo length at belt-front seat						94.6
L205	Cargo length at belt-second seat						55.6 (c)
V2	Total cargo index volume (cu.ft.)						106.4

- 3-Seat Station Wagon (a) 65.1
(b) 65.7
(c) 57.6

EXTERIOR DIMENSIONS

LENGTHS

CODE	DESCRIPTION	SEDANS		COUPES		CONVERT- IBLES	STATION WAGON
		Std.	Sport	Sport	Custom		
L101	Wheelbase	121.5					125.0
L102	Tire size (standard)	(a)					H78-15
L103	Overall length	219.9					225.2
	with impact strip	220.9					226.0
L104	Overhang, front	41.9					
	with impact strip	42.3					
L105	Overhang, rear	56.5					58.3
	with impact strip	57.1					58.7
-	Overall length - less bumpers	213.9					221.6
L127	Body O line to C/L of rear wheels	100.5					104.0
L128	Hood length at centerline	60.4					

WIDTHS

W101	Tread - front	64.1					
W102	Tread - rear	64.0					
W103	Maximum overall width of car	79.5					
W106	Front fender overall width	78.8					
W107	Rear fender overall width	79.6					79.8
W120	Overall car width, front doors open	141.0	161.5				141.0
W121	Overall car width, rear doors open	145.1					145.1

HEIGHTS

H101	Overall height (design)	54.1	53.6	53.4	53.5	53.4	57.1
H102	Front bumper to ground	12.7					13.2(b)
H104	Rear bumper to ground	14.3					12.8(b)
H111	Rocker panel to ground - rear	7.4					7.7
H112	Rocker panel to ground - front	7.9					8.2
H114	Hood at rear to ground						
H115	Step height - front (design)	12.3					12.6
H116	Step height - rear (design)	12.0					12.3
H125	Headlamp to ground	25.8					26.7(c)
H126	Tail lamp to ground	24.8					28.3(c)
H136	Body O line to ground - front	6.1					
H137	Body O line to ground - rear	5.7					

● CLEARANCES

H106	Angle of approach (degrees)	20.5					21.4
H107	Angle of departure (degrees)	14.6					13.2
H147	Ramp breakover angle (degrees)	12.2					12.0
H148	Front suspension to ground	6.8					7.5
H149	Oil pan to ground	6.2					6.9
H150	Flywheel housing to ground	6.5					7.3
H151	Frame to ground	8.5	8.0				9.2
H152	Exhaust system to ground	5.8					6.6
H153	Rear axle to ground	7.5					
H154	Fuel tank to ground	8.0					10.3
H155	Tire well to ground						8.4
H156	Minimum ground clearance	5.8					6.6
-	Location	H152					H152

(a) F78-15 Biscayne and Bel Air models.

G78-15 Impala and Caprice models.

● (b) 3-Seat Wagons - H102 - 13.7, H-104 - 11.2

(c) 3-Seat Wagons - H125 - 27.0, H126 - 26.8

VEHICLE WEIGHTS

BISCAYNE

MODEL SYMBOL		VEHICLE TYPE Description	SHIPPING WEIGHT			CURB WEIGHT		
6-Cyl.	V-8		Front	Rear	Total	Front	Rear	Total
15369	---	4-Door Sedan	2117	1740	3857	2091	1892	3983
---	15469		2261	1784	4045	2235	1936	4171

BEL AIR

15569	---	4-Door Sedan	2114	1740	3854	2088	1892	3980
---	15669		2278	1764	4042	2252	1916	4168

IMPALA

16369	---	4-Door Sedan	2136	1792	3928	2110	1944	4054
---	16469		2306	1807	4113	2280	1959	4239
16357	---	2-Door Sport Coupe	2120	1744	3864	2094	1896	3990
---	16457		2284	1765	4049	2258	1917	4175
---	16447	2-Door Custom Coupe	2257	1796	4053	2231	1948	4179
---	16439	4-Door Sport Sedan	2314	1836	4150	2288	1988	4276
---	16467	2-Door Convertible	2293	1832	4125	2267	1984	4251

CAPRICE

---	16647	2-Door Custom Coupe	2307	1795	4102	2281	1947	4228
---	16639	4-Door Sport Sedan	2328	1875	4203	2302	2027	4329
---	16669	4-Door Sedan	2306	1834	4140	2280	1978	4258

BROOKWOOD

---	15435	4-Door, 2-Seat Station Wagon	2211	2475	4686	2184	2624	4808
-----	-------	------------------------------	------	------	------	------	------	------

TOWNSMAN

---	15635	4-Door, 2-Seat Station Wagon	2212	2475	4687	2185	2624	4809
---	15645	4-Door, 3-Seat Station Wagon	2203	2566	4769	2176	2715	4891

KINGSWOOD

---	16435	4-Door, 2-Seat Station Wagon	2233	2501	4734	2206	2650	4856
---	16445	4-Door, 3-Seat Station Wagon	2218	2599	4817	2191	2748	4939

KINGSWOOD ESTATE

---	16635	4-Door, 2-Seat Station Wagon	2262	2536	4798	2235	2685	4920
---	16645	4-Door, 3-Seat Station Wagon	2256	2627	4883	2229	2776	5005

SHIPPING WEIGHT: Weight of basic vehicle with regular equipment, including grease, oil and (3) gallons of gasoline, and engine coolant to capacity.

CURB WEIGHT: Shipping weight plus gasoline to capacity.

VEHICLE WEIGHTS

OPTIONAL EQUIPMENT

RPO	OPTION	WITH	WEIGHT
AU3	Electric Door Locks	2-Door	+ 10
		4-Door	+ 15
A31	Power Windows		+ 24
A42	Power Seats		+ 20
B44	Load Floor Carpet	Station Wagon	+ 5
C08	Vinyl Roof Cover	35-45-47-57-39 Models	+ 9
		69 Models	+ 7
C60	Air Conditioning		+ 98
C61	Comfortron	C60	+101
-	250 Cu.In. 6 Cyl. Engine	Powerglide	- 8
LF6	400 Cu.In. V8 Engine	Turbo Hydra-matic	+ 14
LS3	402 Cu.In. V8 Engine		+238
LS5	454 Cu.In. V8 Engine		+338
P02	Deluxe Wheel Trim Covers	Exc. Caprice & Kings. Est.	+ 28
		Caprice & Kings Est.	+ 24
UM1	AM Pushbutton Radio & Tape Player		+ 22
UM2	AM-FM Pushbutton Radio & Tape Player		+ 24
U63	AM Pushbutton Radio		+ 6
U69	AM-FM Pushbutton Radio		+ 8
U79	AM-FM Stereo Pushbutton Radio		+ 17
V30	Bumper Guards	All exc. Station Wagon	+ 10
		Station Wagon	+ 8
V55	Roof Luggage Carrier—Station Wagon		+ 24



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CHASSIS

FRAME AND FRONT SUSPENSION	2-3
STEERING, DRIVELINE, WHEELS AND TIRES	4
REAR AXLE AND SUSPENSION	5-7
BRAKES	8
BULBS AND LAMPS	9
FUSES AND CIRCUIT BREAKERS	10

FRAME AND FRONT SUSPENSION

FRAME

Description All welded perimeter frame, with front crossmember, rear axle upper control arm crossmember, rear shock absorber crossmember, and rear crossmember. Center sections and rear axle kickup are box welded construction. Body Mounting: Convertible - 8 biscuits + 6 cushions; Station Wagons - 8 biscuits + 4 cushions; all others - 8 biscuits + 2 cushions.

FRONT SUSPENSION

Description Independent, SLA type with coil springs and concentric shock absorbers and spherical joint steering knuckle pivots for each wheel.

● Wheel travel (design)
 Total 7.57
 Jounce 3.27
 Rebound 4.30
 Wheel to spring, travel ratio 1.57

CONTROL ARMS

Description Reinforced steel stamping with pre-loaded, steel encased rubber bushings at pivot.

STEERING KNUCKLES

Description Forged steel, with integral brake cylinder mounting, and heat treated spindle detachable steering knuckle arm.

Spindle diameters
 Inner bearing 1.37455
 Outer bearing 0.84305
 Spindle thread size 27/32 - 20 NEF-3 (modified)
 Wheel bearing
 Type Taper roller
 Number Two per spindle

SPHERICAL JOINTS

Type Ball studs, upper self-adjusting for wear
 Bearing surfaces
 Upper Two bearings; upper surface teflon coated phenolic; lower surface teflon cotton composition
 Lower One bearing; steel

SHOCK ABSORBERS

Type Direct, double-acting, hydraulic
 Piston diameter 1.00

STABILIZER BAR (exc. Biscayne & Bel Air 6 Cyl. models)

Type Link
 Material HR steel
 Diameter
 Sedans 0.94
 Station Wagons 1.12

FRONT WHEEL ALIGNMENT (Curb)

Camber (degrees) N1/4 to P1-1/4
 Caster (degrees) N2 to zero
 Toe-in (total) 1/16 to 5/16
 Steering axis inclination (degrees) 9.5 to 10.5

GENERAL SUSPENSION PROVISIONS

Car leveling Front stabilizer bar
 Anti-dive control Angle of front upper control arm
 Anti-squat control Rear suspension geometry

FRAME AND FRONT SUSPENSION

FRONT SPRINGS

Selected from a family of coil springs by Electronic Data Processing which identifies the correct springs for the weight of the vehicle including optional equipment ordered by the customer.

FRONT SPRING SPECIFICATIONS

Part Number	Assy. Code	Cut-Off Length	Wire Dia.	Total Coils	Deflection Rate (lbs./inch)	Heights	
						Free	Working (In. @ Lbs.)
3991239	CT	136.09	.647	9.0	300	17.86	11.0 @ 2040
3991240	CW	136.12	.647	9.0	300	18.06	11.0 @ 2100
3991241	CY	151.59	.671	10.0	320	17.81	11.0 @ 2160
3991242	CZ	151.62	.671	10.0	320	17.99	11.0 @ 2220
3991243	FA	151.65	.671	10.0	320	18.18	11.0 @ 2280
3991244	FB	152.01	.683	10.0	340	18.00	11.0 @ 2360
3991245	FC	152.18	.689	10.0	355	17.89	11.0 @ 2425
3991246	FD	152.20	.689	10.0	355	18.07	11.0 @ 2490
3991247	FG	152.52	.700	10.0	360	18.21	11.0 @ 2575
3991248	FH	152.78	.708	10.0	380	18.03	11.0 @ 2650
3991249	FJ	152.80	.708	10.0	380	18.23	11.0 @ 2725
3991250	FK	122.18	.691	8.0	440	15.72	11.0 @ 2050
3991251	FL	122.21	.691	8.0	440	15.92	11.0 @ 2140
3991252	FP	122.24	.691	8.0	440	16.12	11.0 @ 2230
3991253	FR	122.27	.691	8.0	440	16.33	11.0 @ 2320
3991254	FS	137.95	.720	9.0	455	16.35	11.0 @ 2410
3991255	FT	137.98	.720	9.0	455	16.55	11.0 @ 2500
3991256	FW	138.01	.720	9.0	455	16.75	11.0 @ 2590
3991257	FX	138.04	.720	9.0	455	16.94	11.0 @ 2680

STEERING, DRIVELINE, WHEELS AND TIRES

POWER STEERING (Standard)

Description Semi-reversible, recirculating ball nut gear. Integral power piston and vane-type pump driven by crankshaft pulley providing hydraulic pressure. Collapsible steering column for safety. Tilt steering wheel optional.

- Ratios, Gear 15.0:1 on center to 13.0:1 Overall 17.3:1 on center to 14.0:1
- Linkage Parallelogram, front of wheels, 2 tie rods
- Number of turns, lock-to-lock 2.86
- Turning Diameters (ft) - Outside Front
 - Wall to wall
 - Sedans & coupes 44.7
 - Station wagons 46.5
 - Curb to curb
 - Sedans & coupes 42.6
 - Station wagons 44.3
- Steering Wheel
 - Type Oval
 - Diameter 15.25 x 14.75

DRIVELINE

- Type, Sedans & Coupes Straight tube
- Station Wagons Tube-in-tube
- Number Used One
- Diameter (OD)
 - Sedans & Coupes, Auto. Trans. 2.75
 - Remainder 3.25
- Length, 3-Speed Manual
 - Sedan & Coupe 60.0
- Length Automatic Trans.
 - Sedan & Coupe 57.0
 - Station Wagon 60.25
- Wall Thickness 0.065
- Propeller Shaft Damper
 - Station Wagon Internal
- Universal Joints
 - Type
 - Sedan & Coupe (Rear) Constant velocity
 - Sedan & Coupe (Front) Cross
 - Station Wagon Cross
 - Number Used Two
 - Bearings Pre-pack, anti-friction

WHEELS

- Type Short spoke spider
- Size 15 x 6
- Offset 0.34
- Attachment to Hub
 - Type 5 hex nuts
 - Thread Size 1/2-20 UNF 2B
 - Bolt Circle Diameter 5.00

TIRES, STANDARD EQUIPMENT

- Construction Bias belted
- Load Range B
- Size (Sedans, Coupes, Convertibles)
 - F78 x 15 (All 6 Cyl. & Biscayne & Bel Air w/base V8)
 - Static Loaded Radius 12.8
 - Loaded rev/mi @ 45 mph 762
 - Capacity - 24 psi 1280
 - G78 x 15 (Impala & Caprice w/base V8 & all 400 CID)
 - Static loaded radius 12.9
 - Loaded rev/mi - 45 mph 750
 - Capacity @ 24 psi 1380
 - H78 x 15 (All 402 & 454 CID)
 - Static loaded radius 13.1
 - Loaded rev/mi @ 45 mph 733
 - Capacity @ 24 psi 1510
- Size (Station Wagons)
 - L78 x 15
 - Static loaded radius B-13.3
 - Loaded rev/mi @ 45 mph B-720
 - Capacity @ 24 psi B-1680

REAR AXLE AND SUSPENSION

REAR AXLE

Description	Semi-floating; housing consists of two welded tubes pressed into crossbore of cast iron differential carrier. Carrier contains an overhung pinion and hypoid gear supported by two taper roller bearings.
Pinion offset	(Vert) 1.75
Hypoid gear PD *	
2.73, 3.08,	8.50
2.73, 3.08, 3.42	8.875
Pinion bearing adjustment	Shim
Lubricant	
Type	Military Spec. MIL-L-2105-B
Viscosity	SAE80
Capacity (pts)	
● 8.50 Hypoid gear P.D.	4.25
● 8.875 Hypoid gear P.D.	4.90

AXLE SHAFT

Type	Forged and hardened steel with integral drive flange
Wheel bearings	Single row cylindrical roller, one per wheel
Oil seal	Steel encased, spring loaded synthetic rubber

RING AND PINION GEAR TOOTH COMBINATIONS

8.50 Ring gear diameter (All axle combinations for Sedans, Coupes and Convertible except trailer option)	
2.73	41,15
3.08	40,13

RING AND PINION GEAR TOOTH COMBINATIONS

8.875 Ring gear diameter (All Station Wagons, Trailer Options, and 454 CID engines)	
2.73	41,15
3.08	40,13
3.42	41,12

POSITRACTION DIFFERENTIAL (See Power Trains)

Type	Two pinion with single disc clutch
------	------------------------------------

REAR SUSPENSION, REGULAR PRODUCTION

Description	
Sedans & Coupes	Four-link type. Two upper control arms bias mounted and two lower control arms parallel mounted.
Station Wagons	Hotchkiss drive with multiple (6) leaf springs.
Wheel travel (design)	
Total	9.59
Jounce	4.00
Rebound	5.59
Wheel to spring, travel ratio	1.75

SHOCK ABSORBERS

Type	Direct double acting, hydraulic
Piston diameter	1.00

● (*) See Power Trains, page 2 for applications.

REAR AXLE AND SUSPENSION

REAR SPRINGS – SEDANS AND COUPES

Selected from a family of coil springs by Electronic Data Processing which identifies the correct springs for the weight of the vehicle including optional equipment ordered by the customer.

REAR SPRING SPECIFICATIONS

Part Number	Assy. Code	Cut-Off Length	Wire Dia.	Total Coils	Deflection Rate (lbs./inch)	Heights	
						Free	Working (In. @ Lbs.)
482065	XK	128.5	.567	7.48	115	18.70	10.00 @ 1000
482066	XL	132.9	.573	7.71	115	19.13	10.00 @ 1050
482067	XM	138.3	.580	7.98	115	19.57	10.00 @ 1100
482068	XN	143.1	.586	8.22	115	20.00	10.00 @ 1150
482088	YK	125.7	.609	7.30	155	17.10	10.00 @ 1100
482090	YM	129.7	.615	7.50	155	17.74	10.00 @ 1200
482152	ZA	132.5	.619	7.64	155	18.06	10.00 @ 1250
483671	ZH	136.7	.625	7.84	155	18.39	10.00 @ 1300

REAR AXLE AND SUSPENSION

REAR SPRINGS - STATION WAGONS

Selected from a family of leaf springs by Electronic Data Processing which identifies the correct springs for the weight of the vehicle including optional equipment ordered by the customer.

REAR SPRING SPECIFICATIONS

Type Multi-leaf (6)
Material Carbon steel
Size
Length 57.0
Width 2.50
Shackle
Type Compression
Mounting Insulation
Type Rubber bushed at shackle and hanger

Part No.	Code No.	Deflection Rate (lbs/in)	Load @ .58 Spring Camber (Lbs.)
482582	VA	182	1190
482702	VL	182	1290
482703	VM	182	1240
9790692	VU	182	1140

BRAKES

SERVICE BRAKES

Type	Power assisted disc front and drum rear. Front integral hub and disc with self-adjusting single piston floating caliper design mounted on steering knuckle. Finned rear brake drums. Dual circuit hydraulic system with warning lamp. Delay valve on front brakes and proportioning valve on all except station wagons provide balance between front and rear brakes. Reverse self-adjusting features.
Line pressure @ 100 lb. pedal load	773
Total Effective Lining Area, Disc and Drum	
Sedans and coupes	109.2
Station wagons	123.1
Gross Lining Area Disc and Drum	
Sedans and coupes	124.0
Station wagons	132.2
Swept Area, Disc and Drum	
Sedans and coupes	380.0
Station wagons	391.6
Front Brake Disc	
Material	Cast iron
Type	Vented
Diameter, outer	11.86
Width	1.25
Rear Brake Drums	
Construction	Composite, web cast into rim
Material	
Web	HR steel
Rim	Cast alloy iron
Diameter	
Sedans and coupes	11.00 in.
Station wagons	12.00 in.
Front Linings	
Material	Wet compression molded asbestos composition
Method of attachment	Riveted
Size (length x width x thickness)	5.40 x 1.92 x 0.54

SERVICE BRAKES (Cont.)

Rear Linings	
Material	Compression molded asbestos composition wet rolled; grooved primary linings.
Method of attachment	
Sedans and coupes	Bonded and riveted
Station wagons	Riveted
Size (length x width x thickness)	
Sedans and Coupes	
Primary	8.63 x 2.0 x 0.21
Secondary	11.19 x 2.0 x 0.21
Station Wagons	
Primary	8.88 x 2.0 x 0.22
Secondary	11.52 x 2.0 x 0.22
Wheel Cylinders	
Front calipers	
Number per wheel	One
Diameter	2.94
Rear, Diameter	
Sedans and coupes	0.9375
Station wagons	1.00
Master Cylinder	
Piston diameter	1.125
Piston travel (with available pedal travel)	1.41
Foot pedal travel	5.38

PARKING BRAKE

Type	Mechanical; pull rods and cables operate rear service brakes; parking brake "ON" warning lamp provided.
Control	Pendulum foot pedal; released by "T" handle located below instrument panel to left of steering column.
Total Effective Area	
Sedans and coupes	74.0
Station wagons	90.6

BULBS AND LAMPS

BULBS AND LAMPS	NUMBER REQUIRED ALL TRADE NUMBER	CANDLE POWER PER LAMP
Automatic transmission Quadrant	1-194	2
Back-up	2-1156	32
Brake warning	1-194	2
Courtesy		
Instrument panel	2-631	6
Direction signal indicator	2-194	2
Dome	1-211	12
Generator indicator	1-194	2
Glove compartment	1-1895	2
Headlamp hi-beam indicator	1-194	2
Headlamp Outer	2-4002	High beam 37.5W Low beam 55.0W
	2-4001	High beam 37.5W
Inner		
Heater controls	1-1895	2
Instrument cluster	4-168	3
License plate, rear	1-67	4
Luggage compartment	1-89	6
Oil pressure indicator	1-194	2
Parking		
Park		3
Turn	2-1157	32
Side Marker - Front	2-194	2
Side Marker - Rear	2-194	2
Radio Dial	1-1816	3
Spot lamp - Portable	1-4416	30W
Tail		
Tail, stop and turn	2-1157*	Tail, 3; stop & turn 32
	4-1157**	Tail, 3; stop & turn, 32
Temperature indicator	1-194	2
Underhood	1-93	15
Seat belt warning	1-194	2

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*- All station wagons
 **- Except station wagons

FUSES AND CIRCUIT BREAKERS

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT*
Air conditioning	AGC 30 fuse	In line
	AGC 25 fuse	Fuse panel (g)
Auto. trans. quadrant	AGC 4 fuse	Fuse panel (c)
Back-up lamps	AGC 20 fuse	Fuse panel (d)
Brake warning lamp	AGC 10 fuse	Fuse panel (d)
● Cigarette lighter	AGC 20 fuse	Fuse panel (b)
● Clock	AGC 20 fuse	Fuse panel (b)
● Courtesy lamps	AGC 20 fuse	Fuse panel (b)
Defroster rear window	AGC 10 fuse	Fuse panel (e)
Direction signal indicator lamps	AGC 20 fuse	Fuse panel (c)
Dome lamp	AGC 25 fuse	Fuse panel (b)
Fuel gage	AGC 10 fuse	Fuse panel (d)
Folding top motor	30 amp CB	Firewall
Generator indicator lamp	AGC 10 fuse	Fuse panel (d)
● Glove compartment lamp	AGC 20 fuse	Fuse panel (b)
Headlamps	Circuit Breaker	Light switch
Headlamps hi-beam indicator lamp	Circuit Breaker	Light switch
Heater	AGC 25 fuse	Fuse panel (g)
Heater control lamp	AGC 3 fuse	Fuse panel (c)
Instrument cluster lamps	AGC 3 fuse	Fuse panel (c)
License plate lamp, rear	AGC 20 fuse	Fuse panel (d)
Luggage compartment lamp	AGC 20 fuse	Fuse panel (a)
Oil pressure indicator lamp	AGC 10 fuse	Fuse panel (d)
Park and turn lamps - front	20 amp fuse	Fuse panel (a)
Power seat	30 amp CB	Firewall
Power windows	20 amp CB	Firewall
Radio and radio lamp	AGC 10 fuse	Fuse panel (e)
Side marker lamp - front	AGC 20 fuse	Fuse panel (a)
Side marker lamp - rear	AGC 20 fuse	Fuse panel (a)
Speed cruise control	AGC 20 fuse	Fuse panel (e)
Spot lamp - Portable	AGC 15 fuse	In line
Tail, stop and turn lamps - rear	AGC 20 fuse	Fuse panel (a)
● Power tailgate window	30 amp CB	Firewall
Temperature indicator lamp	AGC 10 fuse	Fuse panel (d)
Traffic hazard indicator	AGC 20 fuse	Fuse panel (b)
Underhood lamp	SAE 15 fuse	In line
Windshield wiper, two-speed	SAE 25 fuse	Fuse panel (f)
● Seat belt warning lamp	AGC 10 fuse	Fuse panel

* Letter suffix indicates same circuit

BODY

EXTERIOR PAINT PROCESS	2
EXTERIOR-INTERIOR COLORS	3
BODY CONSTRUCTION AND GLASS AREA	6

EXTERIOR PAINT PROCESS

1. **RUSTPROOFING.** Assembled car bodies are chemically sprayed to clean and etch the metal surfaces for corrosion resistance and paint adhesion. Unassembled sheet metal parts follow the same process.
2. **BODY AND SHEET METAL PRIMERS.** Four corrosion resistant primers, specially formulated, are hand sprayed on the body in areas where rust might develop. Lower areas considered especially vulnerable are coated with another rust inhibiting compound.
3. **PRIMER COAT** is applied to all outside and inside surfaces of front fenders and hoods. The parts are mechanically dipped or flow-coated to insure coating in all seams and secluded areas, and baked at 390 degrees F. for 30 minutes. A coat of sealer is then applied by hand spray to all surfaces requiring another coat of lacquer.
4. **FLASH PRIMER AND PRIMER-SURFACER COATS.** An air-dry flash primer coat is hand sprayed on surfaces below the body belt line. Then a gray primer-surfacer coat is hand sprayed on all outside surfaces of the body and oven baked for 45 minutes at 285 degrees F.
5. **INITIAL SANDING.** Power wet sanding, followed by hand sanding, is done on all body surfaces requiring lacquering. This insures a smooth surface for the lacquer finish. To remove the water, the body is wiped and run through an infra-red oven.
6. **LACQUERING.** Three coats of acrylic lacquer are spread on the exterior surfaces of the body and sheet metal parts to build up a finish of the required thickness for each color.
7. **INITIAL BAKING.** To harden the paint for final sanding, the body and sheet metal parts are baked for approximately 10 minutes at 200 degrees F.
8. **FINAL SANDING.** To remove body surface defects, power and hand sanding is done with fine grit sandpaper and mineral spirits as a wetting agent. Sanded areas are wiped to insure a clean surface before final baking.
9. **FINAL BAKING.** To assure a durable, hard, high luster finish the lacquer is baked for 30 minutes at 275 degrees F. Reheating the lacquer after final sanding permits paint film to soften, allowing surface blemishes and sanding scratches to disappear during the thermo-reflow process.
10. **UNDERCOATING.** To block out road noise, an asbestos fiber sound deadener with asphalt base is sprayed inside the wheel housings and on the bottom of the underbody at designated areas.
11. **PAINT REPAIR AND PROTECTION.** Mars, nicks, or scratches that occur during final assembly are corrected at the factory before shipment. When required, light "slush" polishing brings painted surfaces to a high luster finish. Wax is applied to all horizontal surfaces of each vehicle and polished out for protection during shipment. The wax contains no silicones, thus eliminating any paint contamination problem.

EXTERIOR-INTERIOR COLORS

BISCAYNE 153-15400 SERIES *
BEL AIR 155-15600 SERIES *
IMPALA 163-16400 SERIES *
CAPRICE 16600 SERIES

SERIES		MODEL					INTERIOR COLORS AND CODE NUMBERS												
							Black			Dark Blue		Light Covert		Dark Saddle	Dark Green			Medium Pewter	
							Cloth	Knit	Vinyl	Cloth	Vinyl	Cloth	Vinyl	Vinyl	Cloth	Knit	Vinyl	Cloth	Vinyl
Biscayne	X							802		809		816							
Bel Air	X					803		804	810	811		817		828					
Impala	X					805		806	812		815	818	826	829		830			
		X	X	X		805		806	812	813	815	818	826	829		830	834	835	
Caprice					X			806				818	826						
		X	X			807	838		814		819			831	833		836		
	X						838		814		819				833		836		

CODE NO.	EXTERIOR COLOR																	
11	Antique White							X			X			X				X
14	Pewter Silver							X						X				X
18	Dusk Gray Metallic							X										X
19	Tuxedo Black							X		X		X		X				X
24	Ascot Blue							X		X								
28	Fathom Blue							X		X								
43	Gulf Green							X			X				X			
48	Sequoia Green							X			X	X		X				
50	Covert Tan							X			X	X		X				
54	Desert Gold							X			X							
57	Golden Brown							X			X							
62	Driftwood							X					X					
68	Midnight Bronze							X			X	X						
69	Aegean Brown							X				X						
75	Cranberry Red							X				X						

CODE NO.	TWO-TONE																	
	Lower	Upper																
24-11	Ascot Blue	White						X		X								
28-11	Fathom Blue	White						X		X								
43-11	Gulf Green	White						X			X			X				
48-11	Sequoia Green	White						X			X	X		X				
54-11	Desert Gold	White						X			X							
57-11	Golden Brown	White						X			X							

Convertible Top: Black or White with any exterior color.
 Wheels: Lower body color with hub caps, black with wheel covers.

• * 153-155-16300 Series not merchandised after January 1, 1972.

EXTERIOR-INTERIOR COLORS

STATION WAGON SERIES

SERIES	Model		INTERIOR TRIM AND CODE NUMBERS					
	35	45	Black		Dark Blue	Light Covert	Dark Saddle	Dark Green
			Cloth	Vinyl	Vinyl	Vinyl	Vinyl	Vinyl
● Brookwood	X			802			824	
● Townsman	X	X		804			825	
Kingswood	X	X		806	813	818	826	830
Kingswood Estate	X	X	808	806	813	818	826	830

COLOR CODE	EXTERIOR COLOR						
11	Antique White	X	X	X	X	X	
14	Pewter Silver	X				X	X
18	Dusk Gray Metallic	X					
19	Tuxedo Black	X	X	X	X	X	X
24	Ascot Blue	X	X				
28	Fathom Blue	X	X				
43	Gulf Green	X		X			X
48	Sequoia Green	X		X	X	X	X
50	Covert Tan	X		X	X	X	X
54	Desert Gold	X		X			
57	Golden Brown	X		X			
62	Driftwood	X				X	
● 68	Midnight Bronze	X		X	X	X	
69	Aegean Brown	X				X	
75	Cranberry Red	X				X	

TWO-TONE							
CODE NO.	LOWER	UPPER					
24-11	Ascot Blue	White	X	X			
28-11	Fathom Blue	White	X	X			
43-11	Gulf Green	White	X		X		X
48-11	Sequoia Green	White	X		X	X	X
54-11	Desert Gold	White	X		X		
57-11	Golden Brown	White	X		X		

WHEELS: Lower body color with hub caps, black with wheel covers.

EXTERIOR-INTERIOR COLORS

CODE NO.	EXTERIOR COLOR	VINYL ROOF COLORS				
		Black	White	Medium Green	Medium Blue	Light Covert
11	Antique White	X	X	X	X	X
14	Pewter Silver	X	X	X		
18	Dusk Gray Metallic	X	X			X
19	Tuxedo Black	X	X	X	X	X
24	Ascot Blue	X	X		X	
28	Fathom Blue	X	X		X	
43	Gulf Green	X	X	X		
48	Sequoia Green	X	X	X		X
50	Covert Tan	X	X			X
54	Desert Gold	X	X			X
57	Golden Brown	X	X			X
62	Driftwood	X	X			
68	Midnight Bronze	X	X			
69	Aegean Brown	X	X			
75	Cranberry Red	X	X			

BODY CONSTRUCTION AND GLASS AREA

GENERAL

Type Unisteel, with cowl, roof, underbody and body panels welded to form body shell. Doors, front and rear lids are of double-panel construction and hinge assembled to body. Separate frame and bolt-on front end sheet metal, with protective inner fender skirts. Double panel roof construction with integral front and rear headers and side rails.

DOORS AND LOCKS

Door construction Double steel panels, with side guard beam. Doors hinged at front.
 Door handles Pull-type exterior. Free-wheeling inside door handles on all doors.
 Front door glass Full ventless windows on all models.

HOOD AND TRUNK LID

Type Counterbalanced, with spring loaded toggle action hinges on rear of hood and boxed hinges on trunk lid with torsion rod.
 Hood release Internal; to left of steering column under instrument panel.

VENTILATION

High level air intake for passenger compartment with double wall plenum chamber. Astro Ventilation with instrument panel outlets standard on all.
 Flow through ventilation Air enters cowl plenum thru louvers in the hood and passes into the passenger compartment thru two upper level vents in the instrument panel and a lower vent below the panel. To assure constant flow, the heater blower moves air thru the lower vent whenever the ignition is on. To exit, air passes under the rear seat cushion into the trunk, and rear quarters to baffle type outlets on door lock pillars.

WINDSHIELD WIPERS AND WASHERS

Type Concealed dual 2-speed electric with 18" blades
 Linkage Parallel acting with articulated left arm.

HEADLIGHTS Dual, horizontal at outer ends of grille above deep section bumper.

SPARE TIRE AND TOOLS

Location Sedans and Sport Coupes, angled on center of shelf in trunk compartment; Station wagon, vertically in right hand side of cargo compartment rear of wheelhouse behind removable cover. Convertible, right side of trunk compartment rearward of wheelhouse. Tools consist of bumper jack with combination lever handle and wheel nut wrench mounted on diagonal brace in R.H. wheelhouse.

SEATS, STATION WAGON (3-seat models)

Second 2/3, 1/3 split to allow access to third seat
 Third Forward facing

STATION WAGON REAR WINDOW & TAILGATE

Operation Gate moves downward into recess in load floor. Window moves upward into roof cavity.
 Power tailgate window Standard
 Power tailgate Optional
 Stowage compartment Hidden under load floor

BODY GLASS VISIBILITY AREA

	MODELS					
	69	39	57	47	67	35-45
Windshield	1542.7		1511.4		1445.1	1542.7
Front Door Window	773.5	873.4		1124.6	1149.2	773.5
Rear Door Window	736.6	684.4	-	-	-	845.9
Rear Quarter Window	-	-	343.4	434.8	382.7	1646.3
Rear Window	1531.3	1763.1	1470.0	881.9	738.1	882.1
Total Area (Sq. In.)	4584.1	4832.3	4449.4	3952.7	3714.4	5690.5

All window glass curved safety solid plate except curved laminated safety windshield and safety solid plate fixed convertible rear window.

POWER TRAINS

POWER TEAM COMBINATIONS	2
POWER TEAM MULTIPLICATION FACTORS	3
ENGINE DATA AND RATINGS	4
ENGINE SPEED AND PISTON TRAVEL	5
VEHICLE PERFORMANCE FACTORS	6
PRINCIPAL COMPONENTS	7
FUEL SYSTEM	13
EXHAUST AND VENTILATION SYSTEM	14
LUBRICATION SYSTEM	15
COOLING SYSTEM	16
ELECTRICAL SYSTEM	17
CLUTCHES	18
THREE-SPEED TRANSMISSION	18
POWERGLIDE TRANSMISSION	19
TURBO HYDRA-MATIC TRANSMISSION	20

POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	MODEL APPLICATION	AXLE RATIOS*			RING GEAR
			STAND.	PERF.	TRAILER	
● †† Turbo Thrift 250 250 Cubic Inch L-6 Standard	3-Speed (2.85:1 low)	Sedans & Coupes (A)	3.08:1			8.50
	Powerglide					

A—Not available with Impala Convertible, Sport Sedan, Custom Coupe & Caprice models.

Turbo-Fire 350 350 Cubic Inch V-8 Standard	Turbo Hydra-matic	All Models except Caprice & Station Wagons	2.73:1	3.08:1		8.50
		Station Wagons exc. Kingswood Estate			3.42:1	8.875
			2.73:1	3.08:1	3.42:1	8.875

Turbo-Fire 400** 400 Cubic Inch V-8 RPO LF6	Turbo Hydra-matic	All Models except Station Wagons	2.73:1	3.08:1		8.50
		Station Wagons			3.42:1	8.875
			2.73:1	3.08:1	3.42:1	8.875

Turbo-Jet 400 402 Cubic Inch V-8 RPO LS3	Turbo Hydra-matic	All Models except Station Wagons	2.73:1			8.50
		Station Wagons			3.42:1	8.875
			2.73:1	3.42:1		8.875

Turbo-Jet 454 454 Cubic Inch V-8 RPO LS5	Turbo Hydra-matic	All Models	2.73:1		3.08:1	8.875
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*—Positraction axles available optionally for all ratios; same ratios available with Air Conditioning (V8 engines only)

**—Standard for Caprice and Kingswood Estate, optional (RPO LF6) for all others.

†—Available with Caprice and Kingswood Estate only ● †† Not to be merchandised after January 1, 1972.

NOTE: TURBO-JET 400 AND 454 ENGINES ARE NOT AVAILABLE IN THE STATE OF CALIFORNIA. ANY SPECIFICATIONS THAT ARE SPECIFIC TO ENGINES RESTRICTED TO CALIFORNIA ARE INDICATED ACCORDINGLY.

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSIONS

ENGINE	CARBURETION	TRANSMISSION	TOTAL GEAR REDUCTION*					AXLE RATIO
			1st	2nd	3rd	4th	Rev	
250 Cu.In. L-6 Standard	Single Barrel	3-Speed	8.78	5.17	3.08		9.09	3.08

WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
250 Cu.In. L-6 Standard	Powerglide	Drive	11.77:1 - 3.08:1	3.08:1
		Low & Reverse	11.77:1 - 5.61:1	
350 Cu.In. V-8 Standard	Turbo Hydra-matic	Drive	14.44:1 - 2.73:1	2.73:1
		Low	14.44:1 - 6.83:1	
		Second	14.44:1 - 4.15:1	
		Reverse	14.44:1 - 5.27:1	
400 Cu.In. V-8 RPO LF6	Turbo Hydra-Matic	Drive	14.22:1 - 2.73:1	2.73:1
		Low	14.22:1 - 6.77:1	
		Second	14.22:1 - 4.04:1	
		Reverse	11.93:1 - 5.68:1	
402 Cu.In. V-8 RPO LS3	Turbo Hydra-Matic	Drive	14.22:1 - 2.73:1	2.73:1
		Low	14.22:1 - 6.77:1	
		Second	14.22:1 - 4.04:1	
		Reverse	11.93:1 - 5.68:1	
454 Cu.In. V-8 RPO LS5	Turbo Hydra-Matic	Drive	14.22:1 - 2.33:1	2.73:1
		Low	14.22:1 - 6.77:1	
		Second	14.22:1 - 4.04:1	
		Reverse	11.93:1 - 5.68:1	

*Axle ratio x transmission ratio

ENGINE DATA AND RATINGS

GENERAL DATA

Engine Type	L-6 OHV		V-8 OHV		
Piston Displacement (Cu.In.)	250	350	400	402	454
Availability	Standard	Standard	LF6*	LS3	LS5
Number of Cylinders	Six		Eight		
Bore and Stroke (nominal)	3.875 x 3.53	4.00 x 3.48	4.125 x 3.75	4.126 x 3.76	4.251 x 4.00
Compression Ratio	8.5:1				
Taxable (SAE) Horsepower	36.0	51.2	54.4	54.5	57.8
Firing Order	1-5-3-6-2-4		1-8-4-3-6-5-7-2		
Idling Speed	3-Speed (in Neutral)	700			
	Automatic (in Drive)	500	600		
Compression Press. (PSI) @ Cranking Speed, Engine Hot	140	150	160		
Power Plant	Front	Two, combination compression and shear type			
Mountings	Rear	One; full shear type			
Measurements	Fan to rear of engine block	34.99	30.69	30.69	33.97
	Top of air cleaner to bottom of oil pan	27.44	29.29	29.29	27.62
	Width - including air cleaner	30.15	27.34	27.34	30.00

ADVERTISED ENGINE RATING

Engine Designation	Turbo-Thrift 250 L-6	Turbo-Fire 350 V-8	Turbo-Fire 400 V-8	Turbo-Jet 402 V-8	Turbo-Jet 454 V-8
Availability	Standard	Standard	RPO LF6*	RPO LS3	RPO LS5
Carburetor	Single Barrel	Two Barrel	Two Barrel	Four Barrel	Four Barrel
Net Brake HP @ RPM	110 @ 3800	165 @ 4000	170 @ 3400	210 @ 4400	270 @ 4000 (a)
Net Torque @ RPM (lb-ft)	185 @ 1600	280 @ 2400	325 @ 2000	320 @ 2400	390 @ 3200 (a)

* Standard with Caprice & Kingswood Estate.

(a) Station Wagons HP 230 @ 4000; Torque - 360 @ 3200.

ENGINE SPEED AND PISTON TRAVEL

TURBO-THRIFT 250 L-6 ENGINE

Transmission	3-Speed	Powerglide
Rear Axle Ratio	3.08:1	
Tire Size	F78 x 15B	
Crankshaft Revolutions per Mile	2346.9	
Crankshaft RPM @ 1 MPH	Low	71.1
	Second	39.1
	Third	39.1 (direct)
	Reverse	71.1
Piston Travel (ft/mile)	1380.8	

TURBO-FIRE 350 V-8 ENGINES

Transmission	Turbo Hydra-Matic	
Rear Axle Ratio	2.73:1	
Tire Size	F78 x 15B (a)	
Crankshaft Revolutions per Mile	2080.3	
Crankshaft RPM @ 1 MPH	Low	85.0
	Second	51.3
	Third	34.7 (direct)
	Reverse	65.1
Piston Travel (ft/mile)	1206.6	

(a) L78 x 15B standard on Station Wagons and G78 x 15B standard on Impala.

TURBO-FIRE 400 V-8 ENGINE (RPO LF6)

Transmission	Turbo Hydra-Matic	
Rear Axle Ratio	2.73:1	
Tire Size	G78 x 15B (a)	
Crankshaft Revolutions per Mile	2047.5	
Crankshaft RPM - 1 MPH	Low	84.6
	Second	50.5
	Third	34.12 (direct)
	Reverse	70.9
Piston Travel (ft/mile)	1279.7	

(a) L78 x 15B standard on Station Wagons.

TURBO-JET 402 V-8 ENGINE (RPO LS3)

Transmission	Turbo Hydra-Matic	
Rear Axle Ratio	2.73:1	
Tire Size	H78-15B (a)	
Crankshaft Revolutions per Mile	2001.1	
Crankshaft RPM @ 1 MPH	Low	82.7
	Second	49.4
	Third	33.4 (Direct)
	Reverse	69.4
Piston Travel (ft/mile)	1254.0	

(a) L78 x 15B standard on Station Wagons.

TURBO-JET 454 V-8 ENGINE

Transmission	Turbo Hydra-Matic	
Rear Axle Ratio	2.73:1	
Tire Size	H78-15B (a)	
Crankshaft Revolutions per Mile	2001.1	
Crankshaft RPM @ 1 MPH	Low	82.7
	Second	49.4
	Third	33.4
	Reverse	69.4
Piston Travel (ft/mile)	1334.1	

(a) L78 x 15B standard on Station Wagons.

VEHICLE PERFORMANCE FACTORS

ENGINE	BASE 250 CU.IN. 110 HP	BASE 350 CU.IN. 165 HP	RPO LF6 400 CU.IN. 170 HP	RPO LS3 402 CU.IN. 210 HP	RPO LS5 454 CU.IN. 270 HP
MODEL	15569	15669	16639	15669	15669

3-SPEED TRANSMISSION

Performance Weight (pounds)	4580				
Pounds per Net Horsepower	41.64				
Pounds per Cu.In. Displacement	18.32				
Net HP per Cu.In. Displacement	.440				
Power Displacement (cu.ft./mile)	169.99				
Displacement Factor (cu.ft./ton mile)	74.23				

TURBO HYDRA-MATIC

Performance Weight (pounds)		4768	4629	4990	5041
Pounds per Net Horsepower		28.90	27.23	23.76	18.67
Pounds per Cu.In. Displacement		13.62	11.57	12.41	11.10
Net HP per Cu.In. Displacement		.471	.423	.522	.595
Power Displacement (cu.ft./mile)		210.66	236.98	232.75	262.87
Displacement Factor (cu.ft./ton mile)		88.51	102.59	93.47	104.31

POWERGLIDE

Performance Weight (pounds)	4572				
Pounds per Net Horsepower	41.56				
Pounds per Cu.In. Displacement	18.29				
Net HP per Cu.In. Displacement	.440				
Power Displacement (cu.ft./mile)	169.99				
Displacement Factor (cu.ft./ton mile)	74.23				

GLOSSARY

Performance Weight	Curb Weight plus 600 Lb. (weight of four 150 lb passengers)
Power Displacement	$\frac{\text{Crankshaft Revs/Mi} \times \text{Piston Displacement}}{2 \times 1728}$
Displacement Factor	$\frac{\text{Power Displacement}}{\text{Performance Wt (tons)}}$

PRINCIPAL COMPONENTS

CYLINDER BLOCK

Material	Cast alloy iron
Bore diameter	
L6-250 Cu.In.	3.8745-3.8775
V8-350 Cu.In.	3.9995-4.0025
V8-400 Cu.In.	4.1245-4.1275
V8-402 Cu.In.	4.1246-4.1274
V8-454 Cu.In.	4.2496-4.2524
No. of Bulkheads	
L6	7
V8	5
Water Jacket	Full length around each cylinder
Bearing Caps (Number, material & attachment)	
L6-250 Cu.In.	7, cast iron, 2-bolt
V8-350 Cu.In.	5, cast iron, 2-bolt
V8-400 Cu.In.	No. 1 & 5, nodular iron, 2-bolt
V8-402 & 454 Cu.In.	No. 2, 3 & 4, nodular iron, 4-bolt
V8-402 & 454 Cu.In.	5, cast iron, 2-bolt
Bore Spacing (Centerline to Centerline)	
L6-250 Cu.In.	4.4
V8-350 & 400 Cu.In.	4.4
V8-402 & 454 Cu.In.	4.84

CYLINDER HEAD

Material	High chrome cast alloy iron
Bolt No. & Size	
L6-250 Cu.In.	10; .500 dia. 13 threads/in.
V8-350 Cu.In.	34; .4375 dia. 14 threads/in.
V8-400 Cu.In.	32; .4375 dia. 14 threads/in.
V8-402 & 454 Cu.In.	32; .4375 dia. 14 threads/in.

COMBUSTION CHAMBER VOLUME

(Total chamber volume of assembled engine with piston at top center)	
L6-250 Cu.In.	5.93 Cu.In.
V8-350 Cu.In.	6.08 Cu.In.
V8-400 Cu.In.	6.98 Cu.In.
V8-402 Cu.In.	6.91 Cu.In.
V8-454 Cu.In.	7.79 Cu.In.

INLET MANIFOLD

Material	Cast alloy iron
Type	
L6	3 port, rectangular section
V8	8 port, double deck

EXHAUST MANIFOLD

Material	Cast alloy iron
Type	
L6 & V8-350 Cu.In.	4 port, center takedown
V8-404 & 412 Cu.In.	4 port, rear takedown
V8-454 Cu.In.	Dual, 4 port, rear takedown
Outlet Diameter (Nominal)	
L6-250 Cu.In.	2.0
V8-350 & 400 Cu.In.	2.0
V8-402 & 454 Cu.In.	2.5

CRANKSHAFT

Material	
L6-250 Cu.In.	Cast nodular iron
V8-350, 400 & 402 Cu.In.	Cast nodular iron
V8-454 Cu.In.	Forged steel
End Play	
L6-250 Cu.In.	.002-.006
V8-350 & 400 Cu.In.	.002-.006
V8-402 & 454 Cu.In.	.006-.010
Counter Weights	
L6	12
V8	6
Crank Arm Length	
L6-250 Cu.In.	1.765
V8-350 Cu.In.	1.74
V8-400 & 402 Cu.In.	1.88
V8-454 Cu.In.	2.00
Torsional Damper	Rubber mounted inertia
Timing Gear	
L6	Steel, helical cut
V8	Steel; sprocket & chain
Pulley Pitch Diameter	6.64

MAIN BEARINGS

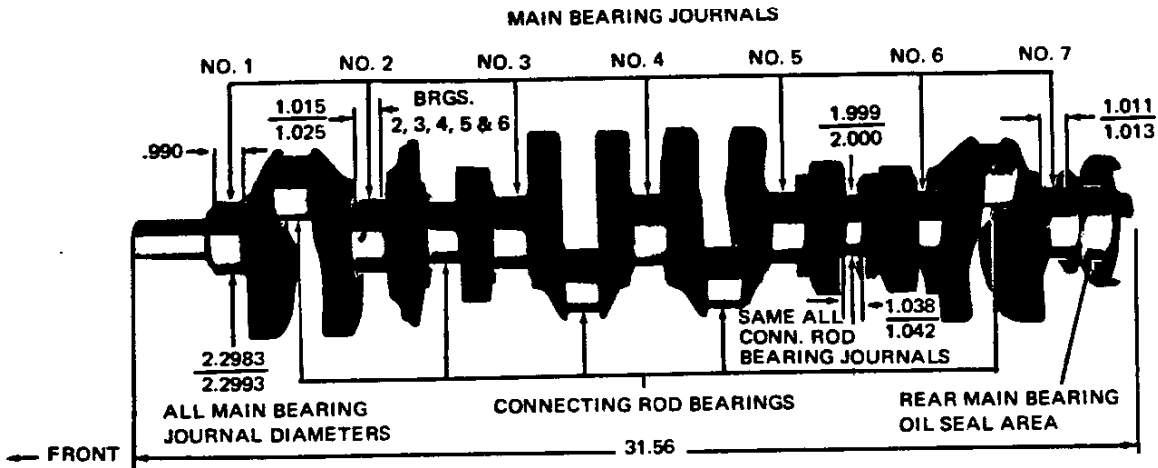
Material	Steel, backed insert; (copper lead alloy or premium aluminum lining selected for specific engine application)
Type	Precision removable
Thrust Against Bearing	No. 7 (L-6); No. 5 (V-8)
Clearance	
L6-250 Cu.In.	.0003-.0029
V8-350 & 400 Cu.In.	
No. 1	.0008-.0020
No. 2, 3 & 4	.0011-.0023
No. 5	.0017-.0033
V8-402 & 454 Cu.In.	
No. 1	.0007-.0019
No. 2, 3 & 4	.0013-.0025
No. 5	.0019-.0035

Dimensions	Theoretical Inner Dia.	Effective Length	Projected Area
L6-250 Cu.In.			
Bearing No. 1-6	2.3004	.752	1.7299
Bearing No. 7	2.3004	.760	1.7483
V8-350 Cu.In.			
Bearing No. 1-4	2.4502	.752	1.8425
Bearing No. 5	2.4508	1.177	2.8846
V8-400 Cu.In.			
Bearing No. 1-4	2.6503	.752	1.9930
Bearing No. 5	2.6509	1.177	3.1201
V8-402 Cu.In.			
Bearing No. 1-4	2.7504	.962	2.6459
Bearing No. 5	2.7505	1.256	3.4546
V8-454 Cu.In.			
Bearing No. 1	2.7492	.992	2.7272
Bearing No. 2-4	2.7504	.992	2.7284
Bearing No. 5	2.7499	1.256	3.4528

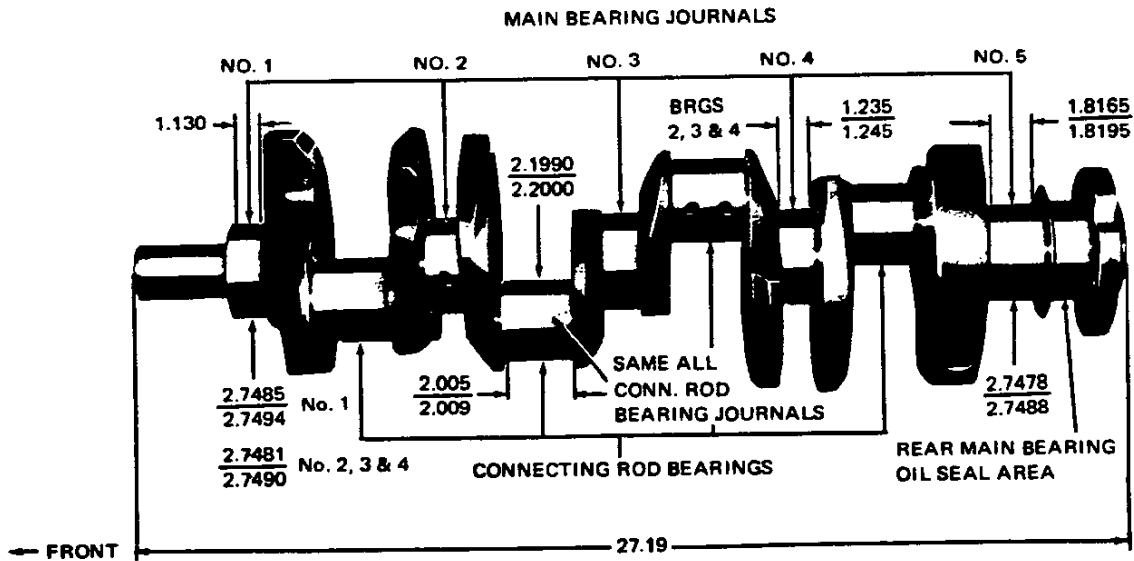
PRINCIPAL COMPONENTS

CRANKSHAFTS AND BEARINGS

250 CUBIC INCH SIX CYLINDER ENGINE



454 CUBIC INCH V-8 ENGINES



PRINCIPAL COMPONENTS

CAMSHAFT

Material	Cast alloy iron
Drive	
L6	Gear; bakelite and fabric composition with steel hub
V8	Sprocket & chain; steel
Lobe Lift	
L6-250 Cu.In.	.2217 Inlet & Exhaust
L6-250 Cu.In. (California)	.2217 Inlet; .2315 Exhaust
V8-350 & 400 Cu.In.	.2600 Inlet; .2733 Exhaust
V8-350 & 400 Cu.In. (California)	.2671 Inlet; .2733 Exhaust
V8-402 Cu.In.	.2343 Inlet; .2529 Exhaust
V8-454 Cu.In.	.2714 Inlet; .2824 Exhaust
Bearings	Steel backed babbit

VALVE TRAIN

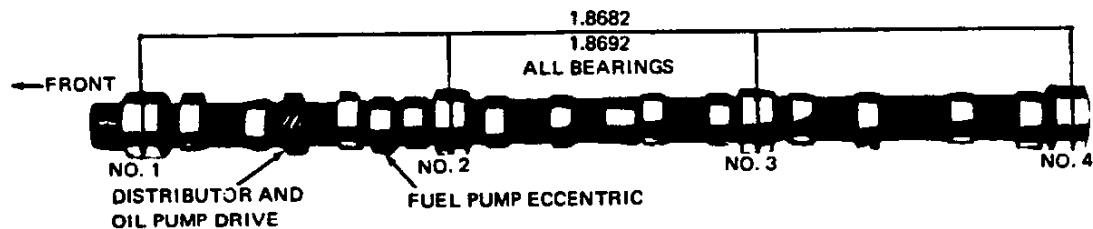
Type	Individually mounted, overhead rocker arms, push rod actuated
Lifters	Hydraulic
Push Rods	
Type	Hollow steel
Ends	
L6-250, V8-350 & 400 Cu.In.	Hardened
V8-402 & 454 Cu.In.	Hardened steel inserts
Rocker Arms	
Material	Stamped steel
Ratio	
L6-250 Cu.In.	1.75:1
V8-350 & 400 Cu.In.	1.50:1
V8-402 & 454 Cu.In.	1.70:1
Rotators (V8-350, 400 & 402)	Exhaust

VALVE SPRINGS

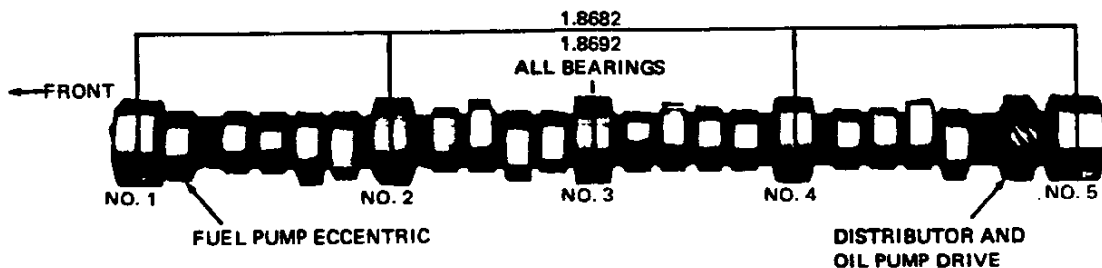
Diameter (I.D.)	
L6-250 Cu.In.	.872-.888
V8-350 & 400 Cu.In.	.868-.884
V8-402 Cu.In.	1.082-1.098
V8-454 Cu.In.	1.080-1.094
Installed Length (lb. @ In.)	
Valves Closed	
L6-250 Cu.In.	56-64 @ 1.66
V8-350 & 400 Cu.In.	76-84 @ 1.70
V8-402 Cu.In.	84-96 @ 1.88
V8454 Cu.In.	
Outer spring	69-81 @ 1.88
Inner spring	26-34 @ 1.78
Valves Opened	
L6-250 Cu.In.	180-192 @ 1.27
V8-350 & 400 Cu.In.	194-206 @ 1.25
V8-402 Cu.In.	205-225 @ 1.48
V8-454 Cu.In.	
Outer spring	228-252 @ 1.38
Inner spring	81-99 @ 1.28
Free Length	
L6-250 Cu.In.	1.90
V8-350 & 400 Cu.In.	2.03
V8-402 Cu.In.	2.03
V8-454 Cu.In.	
Outer spring	2.12
Inner spring	2.06
Valve Spring Damper	
L6-250 Cu.In.	None
V8-350 & 400 Cu.In.	Flat steel, 4 coils
V8-402 Cu.In.	Flat steel, 3.62 coils

CAMSHAFT AND BEARINGS

250 CUBIC INCH L-6 ENGINE



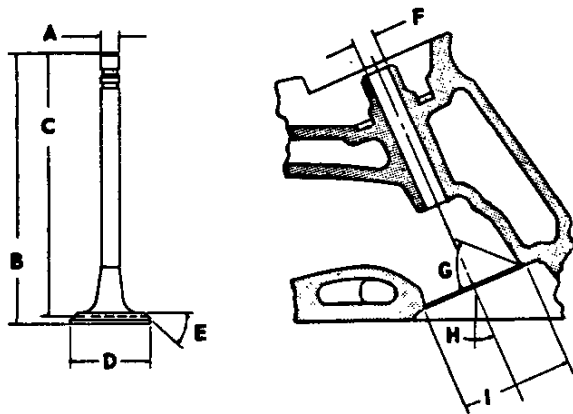
350 and 400 CUBIC INCH V-8 ENGINES



PRINCIPAL COMPONENTS

VALVES - INLET

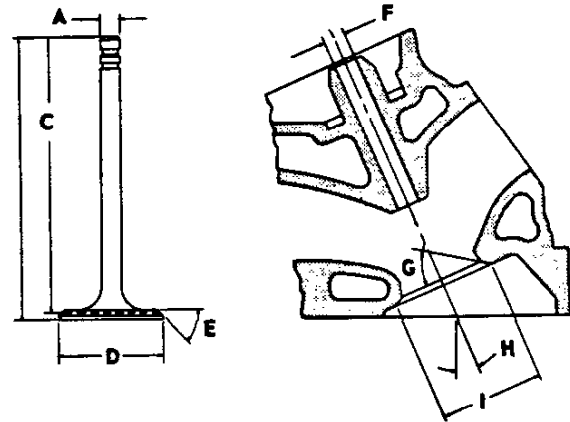
Material	Alloy steel
Coating	
L6-250 Cu.In.	Aluminized face
V8-350 Cu.In.	None
V8-400 Cu.In.	Aluminized face
V8-402 & 454 Cu.In.	Face & head aluminized
Valve Guide Inserts (V8-402 & 454)	Cast alloy iron



A - Stem Diameter	
L6-250 Cu.In.	.3410-.3417
V8-350 & 400 Cu.In.	.3410-.3417
V8-402 & 454 Cu.In.	.3715-.3722
B - Overall Length	
L6-250 Cu.In.	4.902-4.922
V8-350 & 400 Cu.In.	.4870-4.889
V8-402 & 454 Cu.In.	5.215-5.235
C - Gage Length	
L6-250 Cu.In.	4.785-4.795
V8-350 & 400 Cu.In.	4.785-4.795
V8-402 & 454 Cu.In.	5.115-5.125
D - Overall Head Diameter	
L6-250 Cu.In.	1.715-1.725
V8-350 & 400 Cu.In.	1.935-1.945
V8-402 & 454 Cu.In.	2.060-2.070
E - Angle of Face	45°
F - Guide Diameter	
L6-250 Cu.In.	.3427-.3437
V8-350 & 400 Cu.In.	.3427-.3437
V8-402 & 454 Cu.In.	.3732-.3742
G - Angle of Seat	46°
H - Valve Angle	
L6-250 Cu.In.	9°
V8-350 & 400 Cu.In.	23°
V8-402 & 454 Cu.In.	4°
I - Valve Seat (Cutter) Diameter	
L6-250 Cu.In.	1.770-1.790
V8-350 & 400 Cu.In.	1.990-2.010
V8-402 & 454 Cu.In.	2.150

VALVES EXHAUST

Material	High alloy steel
Coating	
L6-250 Cu.In.	Aluminized face
V8-350 & 400 Cu.In.	Aluminized face
V8-402 & 454 Cu.In.	Face & head aluminized
Valve Guide Inserts (V8-402 & 454)	Cast alloy iron



A - Stem Diameter	
L6-250 Cu.In.	.3410-.3417
V8-350 & 450 Cu.In.	.3410-.3417
V8-402 & 454 Cu.In.	.3713-.3720
B - Overall Length	
L6-250 Cu.In.	4.913-4.933
V8-350 & 400 Cu.In.	4.913-4.933
V8-402 & 454 Cu.In.	5.345-5.365
C - Gage Length	
L6-250 Cu.In.	4.781-4.791
V8-350 & 400 Cu.In.	4.781-4.791
V8-402 & 454 Cu.In.	5.345-5.365
D - Overall Head Diameter	
L6-250 & 350 Cu.In.	1.495-1.505
V8-400 Cu.In.	1.595-1.605
V8-402 & 454 Cu.In.	1.715-1.725
E - Angle of Face	45°
F - Guide Diameter	
L6-250 Cu.In.	.3427-.3437
V8-350 & 400 Cu.In.	.3427-.3437
V8-402 & 454 Cu.In.	.3732-.3742
G - Angle of Seat	46°
H - Valve Angle	
L6-250 Cu.In.	9°
V8-350 & 400 Cu.In.	23°
V8-402 & 454 Cu.In.	4°
I - Valve Seat (Cutter) Diameter	
L6-250 Cu.In.	1.550-1.570
V8-350 & 400 Cu.In.	1.550-1.570
V8-402 & 454 Cu.In.	1.625

PRINCIPAL COMPONENTS

VALVE TIMING (Crankshaft degrees)

L6-250 Cu.In.	Excluding Ramps	
	Standard	California
Inlet Valve (Zero lash)		
Opens - BTC	16°	16°
Closes - ABC	48°	48°
Duration	244°	244°
Exhaust Valve (Zero lash)		
Opens - BB	46°30'	64°
Closes - ATC	17°30'	50°
Duration	244°	294°

V8-350 & 400 Cu.In.	Excluding Ramps	
	Standard	California
Inlet Valve (Zero lash)		
Opens - BTC	28°	44°
Closes - ABC	72°	96°
Duration	280°	320°
Exhaust Valve (Zero lash)		
Opens - BBC	78°	88°
Closes - ATC	30°	66°
Duration	288°	334°

V8-402 Cu.In.	Excluding Ramps
Inlet Valve (Zero lash)	
Opens - BTC	30°
Closes - ABC	70°
Duration	280°
Exhaust Valve (Zero lash)	
Opens - BBC	77°
Close - ATC	61°
Duration	318°

V8-454 Cu.In.	Excluding Ramps
Inlet Valve (Zero lash)	
Opens - BTC	56°
Closes - ABC	114°
Duration	350°
Exhaust Valve (Zero lash)	
Opens - BBC	110°
Closes - ATC	62°
Duration	352°

VALVE LIFT

L6-250 Cu.In.	.3880 Inlet & Exhaust
L6-250 Cu.In. (California)	.3880 Inlet; .4051 Exhaust
V8-350 & 400 Cu.In. (California)	.4006 Inlet; .4100 Exhaust
V8-350 & 400 Cu.In.	.3900 Inlet; .4100 Exhaust
V8-402 Cu.In.	.3983 Inlet; .4300 Exhaust
V8-454 Cu.In.	.4614 Inlet; .4800 Exhaust

PISTONS

Material	Cast aluminum alloy
Head Type	
L6-250 Cu.In.	Sump head
V8-350 Cu.In.	Sump head
V8-400 Cu.In.	Sump, notched head
V8-402 Cu.In.	Domed head, valve cutout
V8-454 Cu.In.	Flat head, valve cutout
Skirt Type Slipper	
Top Land Clearance	
L6-250 Cu.In.	.0245-.0335
V8-350 Cu.In.	.0235-.0325
V8-400 Cu.In.	.0365-.0455
V8-402 Cu.In.	.0310-.0370
V8-454 Cu.In.	.0350-.0410
Skirt Clearance	
L6-250 Cu.In.	.0005-.0015
V8-350 Cu.In.	.0007-.0017
V8-400 Cu.In.	.0014-.0024
V8-402 Cu.In.	.0018-.0028
V8-454 Cu.In.	.0024-.0034
Compression Ring Groove Depth	
L6-250 Cu.In.	.2153-.2218
V8-350 Cu.In.	.2218-.2884
V8-400 & 402 Cu.In.	.2328-.2393
V8-454 Cu.In.	.2350-.2410
Oil Ring Groove Depth	
L6-250 Cu.In.	.2093-.2158
V8-350 Cu.In.	.2038-.2103
V8-400 & 402 Cu.In.	.2183-.2248
V8-454 Cu.In.	.2183-.2245
Pin Bore Offset	.055-.065
Compression Height	
L6-250 Cu.In.	1.658-1.662
V8-350 & 400 Cu.In.	1.558-1.562
V8-402 Cu.In.	1.877-1.881
V8-454 Cu.In.	1.691-1.699

PISTON PINS

Material	Chromium steel
Length	
L6-250 Cu.In.	2.999-3.010
V8-350 & 400 Cu.In.	2.990-3.010
V8-402 & 454 Cu.In.	2.930-2.950
Diameter	
L6-250 Cu.In.	.9270-.9273
V8-350 & 400 Cu.In.	.9270-.9273
V8-402 & 454 Cu.In.	.9895-.9898
Clearance in Piston	
L6-250 Cu.In.	.00015-.00025
V8-350 & 400 Cu.In.	.00015-.00025
V8-402 Cu.In.	.00025-.00035
V8-454 Cu.In.	.00030-.00040
Pin Mounting	Locked in rod by shrink fit

PRINCIPAL COMPONENTS

COMPRESSION RINGS - UPPER

Material	Cast alloy iron
Type	Straight edge inside of ring
Face	Barrel
Coating	
L6-250 Cu.In.	Molybdenum inlay
V8-350 Cu.In.	Chrome plate
V8-400, 402 & 454 Cu.In.	Molybdenum inlay
Width	
L6-250 Cu.In.	.0775-.0780
V8-350 Cu.In.	.0775-.0780
V8-400 & 402 Cu.In.	.0770-.0780
V8-454 Cu.In.	.0770-.0775
Wall Thickness	
L6-250 Cu.In.	.184-.194
V8-350 Cu.In.	.190-.200
V8-400 & 402 Cu.In.	.196-.206
V8-454 Cu.In.	.202-.212
Gap	
L6-250 Cu.In.	.010-.020
V8-350 & 400 Cu.In.	.010-.020
V8-402 & 454 Cu.In.	.010-.020

COMPRESSION RINGS - LOWER

Material	Cast alloy iron
Type	Inside bevel (top of ring 30 degrees to piston vertical axis for L6-250, V8-350 & 400; and 28°-52° for V8-454)
Face	Tapered
Coating	
L6-250 & V8-350 Cu.In.	Wear resistant
V8-400 & 402 Cu.In.	Chrome plated
V8-454 Cu.In.	Wear resistant
Width	
L6-250 Cu.In.	.0770-.0780
V8-350 Cu.In.	.0770-.0775
V8-400 & 402 Cu.In.	.0770-.0780
V8-454 Cu.In.	.0770-.0775
Wall Thickness	
L6-250 Cu.In.	.184-.194
V8-350 Cu.In.	.190-.200
V8-400 & 402 Cu.In.	.196-.206
V8-454 Cu.In.	.202-.212
Gap	
L6-250 Cu.In.	.010-.020
V8-350 Cu.In.	.013-.025
V8-400, 402 & 454 Cu.In.	.010-.020

OIL CONTROL RINGS

Type	Multi-piece (Two rails and one spacer)
Material	
Rails	Steel
Spacer	Alloy steel
Width (assembled)	.1870-.1890
Wall Thickness	
L6-250 Cu.In.	.152-.158
V8-350 Cu.In.	.150-.156
V8-400 & 402 Cu.In.	.133-.139
V8-454 Cu.In.	.137-.143
Gap	
L6-250 Cu.In.	.015-.055
V8-350 Cu.In.	.015-.055
V8-400, 402 & 454 Cu.In.	.010-.030
Rail Coatings	Chrome plated

CONNECTING RODS

Material	Drop forged steel
Length (center to center)	
L6-250 Cu.In.	5.695-5.705
V8-350 & 400 Cu.In.	5.695-5.705
V8-402 & 454 Cu.In.	6.130-6.140

CONNECTING ROD BEARINGS

Material	
L6-250 Cu.In.	Copper lead alloy or sintered copper nickel backed babbitt on steel
V8-350 & 400 Cu.In.	Premium aluminum
V8-402 & 454 Cu.In.	Premium aluminum
Type	Precision removable
Clearance	
L6-250 Cu.In.	.0007-.0027
V8-350 & 400 Cu.In.	.0013-.0035
V8-402 & 454 Cu.In.	.0009-.0025
Theoretical I.D.	
L6-250 Cu.In.	2.0017
V8-350 & 400 Cu.In.	2.1019
V8-402 & 454 Cu.In.	2.2012
Effective Length	
L6-250 Cu.In.	.807
V8-350 & 400 Cu.In.	.797
V8-402 & 454 Cu.In.	.847
End Play	
L6-250 Cu.In.	.009-.014
V8-350 & 400 Cu.In.	.008-.014
V8-402 & 454 Cu.In.	.015-.023

FUEL TANK

Capacity	
●Sedans, Coupes & Convertibles	24 (approximately)
Station Wagons	22 (approximately)
Fuel Tank Location	
Sedans, Coupes & Convertibles	Behind rear axle
Station Wagons	In left quarter panel
Filler Location	
Sedans, Coupes & Convertibles	Behind hinged rear license plate
Station Wagons	Left rear quarter panel

FUEL FILTERS, DUAL

In Fuel Tank	Mesh strainer
In Carburetor Inlet	Paper

FUEL PUMP ASSEMBLY

Type	Mechanical; diaphragm
Drive	Camshaft, eccentric
Location	Right side front of engine
Pressure Range (shut off pressure at 1800 RPM)	
L6-250 Cu.In.	4.00-5.00 PSI at pump outlet
V8-350 & 400 Cu.In.	7.50-9.00 PSI at pump outlet
V8-402 & 454 Cu.In.	7.50-9.00 PSI at pump outlet

AIR CLEANER

Type	Cylindrical single air horn
Diameter	
L6-250 Cu.In.	12.62
V8-350 & 400 Cu.In.	15.48
V8-402 & 454 Cu.In.	15.48
Filter Element	Oil-wetted paper

CARBURETORS

Make and Type

L6-250 Cu.In.	Rochester, 1-barrel, Monojet
V8-350 Cu.In.	Rochester, 2-barrel, downdraft
V8-400 Cu.In.	Rochester, 2-barrel downdraft
V8-402 & 454 Cu.In.	Rochester, 4-barrel, Quadrajets

●SAE Flange Size

L6-250 Cu.In.	1.50
V8-350 Cu.In.	1.50
V8-400 Cu.In.	1.50
V8-402 & 454 Cu.In.	1.50

Throttle Bore

L6-250 Cu.In.	1.69
V8-350 Cu.In.	1.69
V8-400 Cu.In.	1.69
V8-402 & 454 Cu.In.	1.69

Primary	1.38
Secondary	2.25

Secondary Throttle Actuation By linkage, approximately when primary valves are opened half way between closed and open

Venturi Diameter

L6-250 Cu.In.	1.31
V8-350 Cu.In.	1.25
V8-400 Cu.In.	1.09
V8-402 & 454 Cu.In.	

Primary	1.04
Secondary	.625

CHOKE

Type	Automatic
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EVAPORATION CONTROL SYSTEM

Operation System is designed to minimize the escape of fuel vapors to the atmosphere.

EXHAUST AND VENTILATION SYSTEM

TYPE

L6-250 Cu.In.	Single
V8-350 Cu.In.	Single with crossover pipes
V8-400 Cu.In.	Single with crossover pipes
V8-402 Cu.In.	Single with crossover pipes and resonator
V8-454 Cu.In.*	Dual with resonators

*Station Wagon - Similar to V8-402
except for tail pipe

MUFFLERS

Type	Oval, reverse flow
Construction	Heads and body joined by rolled lock seam construction
Head	
L6-250 Cu.In. ....	.048 sheet steel, aluminized
V8-350 Cu.In. ....	.055 sheet steel, aluminized
V8-400 Cu.In. ....	.055 sheet steel, aluminized
V8-402 Cu.In. ....	.054 sheet steel, aluminized
V8-454 Cu.In.	
Left hand .....	.060 sheet steel, aluminized
Right hand .....	.060 stainless steel
Shell	
L6-250 Cu.In. ....	.036 sheet steel, zinc coated
V8-350 & 400 Cu.In. .	.035 sheet steel, zinc coated
V8-402 Cu.In. ....	.036 sheet steel, zinc coated
V8-454 Cu.In.	
Left hand .....	.036 sheet steel, zinc coated
Right hand .....	.036 stainless steel
Wrap .....	.030 indented asbestos sheet
Cover .....	.018 sheet steel, aluminized
Baffles	
L6-250 Cu.In. ...	No. 2 & 3-.036 zinc coated steel
	No. 1 & 4-.048 zinc coated steel
V8-350 & 400 Cu.In.	No. 1 & 4-.048 zinc coated steel
	No. 2 & 3-.036 zinc coated steel
V8-402 Cu.In. ...	No. 1 & 4-.048 zinc coated steel
	No. 2 & 3-.036 zinc coated steel
V8-454	
Left hand	No. 1 & 3-.048 zinc coated steel
	No. 2 .036 zinc coated steel
Right hand	No. 1, 2 & 3-.036 stainless steel
Length, Body	
L6-250 Cu.In.	21.24
V8-350 & 400 Cu.In. .	21.25
V8-402 & 454 Cu.In. .	21.25
Width (I.D.)	9.25
Height (I.D.)	5.00

EXHAUST CROSSOVER PIPE

Dimensions (O.D.)	
V8-350 & 400 Cu.In.	2.00
V8-402 Cu.In.	2.25
Wall Thickness	
V8-350 & 400 Cu.In. ....	.072-.092 laminated
V8-402 Cu.In. ....	.072-.021 laminated

EXHAUST PIPE

Dimensions (O.D.)	
L6-250 Cu.In.	2.00
V8-350, 400 & 402 Cu.In. .	2.50
V8-454 Cu.In.	2.25
Wall Thickness	
L6-250 Cu.In. ....	.057-.071
V8-350, 400 & 402 Cu.In. .	.072-.092 laminated
V8-454 Cu.In. ....	.072-.092 laminated

RESONATORS

Type	Straight through
Cover .....	.036 stainless steel
Heads .....	.048 stainless steel

TAIL PIPES

Dimensions (O.D.)	
L6-250 Cu.In.	1.875
V8-350 & 400 Cu.In. .	2.00
V8-402 Cu.In.	2.00
V8-454 Cu.In. (RPO LSS)	2.00
Wall Thickness .....	.062-.076

EXHAUST EMISSION CONTROLS

Positive Crankcase Ventilation	Utilizes manifold vacuum to draw off engine crankcase vapors through a metered PCV valve and ultimately to the intake system for engine reburn.
Controlled Combustion System	Increases combustion efficiency through leaner carburetor adjustments and revises distributor calibration.
Combination Emission Control Valve	Controls vacuum supply to the distributor vacuum spark advance and positions the carburetor throttle blade during vehicle deceleration.
Air Injection Reactor	(Used on V8-402 & 454 Cu.In. and also on engines used in California) Air pump injects air into exhaust manifold which burns unburned portion of exhaust fumes.

LUBRICATION SYSTEM

GENERAL

Type	Controlled full pressure
Main Bearings	Pressure
Piston Pins	Splash
Cylinder Walls	
L6 Engine	Main and conn. rod bearing throwoff
V8 Engines	Pressure, jet cross sprayed
Camshaft Bearings	Pressure
Valve Lifters	Pressure
Rocker Arms	Pressure
Timing Gears	
L6 Engine	Nozzle metered
V8 Engines	Centrifugally oiled from front camshaft bearing
Oil Pressure Sending Unit	
Type	Electric
Actuation	Opens or closes circuit @ 2 to 6 PSI
Oil Filler	
Cap	Positive seal
Location	
L6-250	Forward end of rocker cover
V8-350 & 400	Rearward of left rocker cover
V8-402 & 454	Top center of right rocker cover

OIL PAN CAPACITIES (Quarts)

Refill	4
Refill with Filter Change	4.5

LUBRICANT GRADES AND TEMPERATURES

20° F and Above	20W,10W-30,10W-40,20W-40
0° F to 60° F	10W,5W-30,10W-30,10W-40
Below 20° FF	5W, 5W-20, 5W-30

OIL PUMP

Type	Gear
Regulator Valve	Opens between 40-45 lbs
Oil Pressure	
L6-250 Cu.In.	40 PSI @ 2000 RPM
V8-350 & 400 Cu.In.	40 PSI @ 2000 RPM
V8-402 & 454 Cu.In.	40 PSI @ 2000 RPM
Intake Type	Fixed pickup with screen
Capacity (GPM @ Engine RPM) (Theoretical)	
L6-250 Cu.In.	4.3 @ 2000
V8-350 & 400 Cu.In.	4.3 @ 2000
V8-402 & 454 Cu.In.	6.0 @ 2000

OIL FILTER

Type	Full flow, throwaway canister
Location	
L6 Engine	Right side front of engine
V8 Engines	Left rear side of engine
Capacity (pints)	One
Bypass Valve	Opens between 9 to 11 PSI drop in pressure

OIL PAN DRAIN PLUG

Type	Hex head
Location	
L6 Engines	Front lower face of oil pan sump
V8 Engines	Left lower face of oil pan sump
Size of Hex Head	.860-.875
Thread	1/2-20 UNF 2A
Length	0.81
Diameter	.410-.430

OIL DIP STICK - LOCATION

L6-250	Right side, rear of engine block
V8-350 & 400	Left side, rear of engine block
V8-402 & 454	Right side, center direct to oil pan

COOLING SYSTEM

GENERAL

Type	Liquid, pressurized
Capacity with Heater (Standard Equipment)	
L6-250 Cu.In.	12 Qts.
V8-350 & 400 Cu.In.	16 Qts.
V8-402 Cu.In.	23 Qts.
V8-454 Cu.In.	22 Qts.

RADIATOR

Make and Type	Harrison, tube and center
Core Constant	
Distance between Fins	
L6-250 Cu.In.	.28 (Syn) .25 (Auto)
V8-350 Cu.In.	.18 (Auto)
V8-400 Cu.In.	.18 (Auto)
V8-402 & 454 Cu.In.	.16 (Auto)
Distance between Tubes	.55
Thickness of core	
L6-250 Cu.In.	1.26
V8-350 & 400 Cu.In.	1.26
V8-402 & 454 Cu.In.	1.26
Frontal Area (Sq.In.)	
L6-250 Cu.In.	323
V8-350 & 400 Cu.In.	480
V8-402 & 454 Cu.In.	480

RADIATOR, HEAVY DUTY (RPO V01)

Core Constant	
Distance between Fins	
L6-250 Cu.In.	.16 (Syn) .16 (Auto)
V8-350 & 400 Cu.In.	.16 (Auto)
V8-402 Cu.In.	.20 (Auto)
V8-454 Cu.In.	.16 (Auto)
Distance between Tubes	.55
Thickness of core	
L6-250 Cu.In.	1.26
V8-350 & 400 Cu.In.	1.26
V8-402 & 454 Cu.In.	1.98
Frontal Area (Sq.In.)	
L6-250 Cu.In.	353
V8-350 & 400 Cu.In.	480
V8-402 & 454 Cu.In.	480

RADIATOR CAP RELIEF VALVE

Opens at	Approximately 15 PSI
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THERMOSTAT

Type	Pellet
Begins to Open at	192° - 198°
Fully Opened at	217°
Thermostat By-Pass Hose (V8-454)	.745 ID

RADIATOR HOSE

Outlet, Lower (Radiator to Water Pump)	1.75 I.D.
Inlet, Upper (Thermostat Hsg. to Radiator)	1.50 I.D.

FAN

Number of Blades	
All engines except V8-454 Cu.In.	4
V8-454 Cu.In.	7
Diameter	
L6-250 Cu.In.	17.62
All V-8 engine, except V8-454 Cu.In.	19.00
V8-454 Cu.In.	19.50
Fan pulley pitch diameter	7.00

BELTS, CRANKSHAFT, FAN AND GENERATOR

Number Used	One
Angle of "V"	38° - 42°
Pitch Line	
L6-250 Cu.In.	37.30
V8-350 Cu.In.	44.25
V8-400 Cu.In.	44.25
V8-454 Cu.In.	45.75
Width	.380

WATER PUMP

Type	Centrifugal
Capacity	
L6-250 Cu.In.	24 GPM @ 2000 engine RPM
V8-350 Cu.In.	24 GPM @ 2000 engine RPM
V8-400 Cu.In.	25 GPM @ 2000 engine RPM
V8-402 Cu.In.	23 GPM @ 2000 engine RPM
V8-454 Cu.In.	23 GPM @ 2000 engine RPM
Bearing	Permanently lubricated double row ball
Drive	Fan belt
Ratio (Pump to Engine RPM)	.949:1

DRAIN LOCATIONS AND TYPE

Radiator-Petcock	
All Engines	Lower right side of radiator
Engine Block - Plug	
L6-250 Cu.In.	Left rear side
V8-350 & 400 Cu.In.	Right and left center
V8-402 & 454 Cu.In.	Left side - rear of block Right side - center of block

ELECTRICAL SYSTEM

SUPPLY SYSTEM

BATTERY

Voltage Rating	12
Cranking Power @ 0° F	
L6-250 Cu.In.	2300 watts
V8-350, 400 & 402 Cu.In.	2900 watts
V8-454 Cu.In.	3250 watts
Heavy Duty (RPO T60)	3750 watts
Capacity (SAE) @ 20 hr. rate	
L6-250 Cu.In.	45 amp. hr.
V8-350, 400 & 402 Cu.In.	61 amp. hr.
V8-454 Cu.In.	80 amp. hr.
Heavy Duty (RPO T60)	80 amp. hr.
Total Number of Plates	
L6-250 Cu.In.	54
V8-350, 400 & 402 Cu.In.	66
V8-454 Cu.In.	78
Heavy Duty	90
Number of Cells	6
Terminal Grounded	Negative
Location	Engine compartment; right side front

GENERATOR

Type	Diode rectified
Rating	
Amps	37
Volts	12
Drive	By fan belt
Pulley pitch diameter	2.70
Ratio (Gen. to Engine Speed)	2.53:1

REGULATOR

Type	Two unit, vibrator
Voltage regulator	
Voltage	13.8-14.8 @ 85° F
Field Relay (Combination Light and Field Relay)	
Closing Voltage	1-3 volts @ 80° F
Location	Engine compartment; left side front

IGNITION SYSTEM

DISTRIBUTORS Refer to chart below

CABLE Linen core impregnated with electrical conducting material and insulation of rubber with neoprene jacket

COIL

Type	12-Volt
Amperes Drawn	
Engine Stopped	4.0
Engine Idling	1.8

SPARK PLUGS

Type	
L6-250 Cu.In.	ACR46T
V8-350 & 400 Cu.In.	ACR44T
V8-402 & 454 Cu.In.	ACR44T
Thread Size (mm)	14
Gap	.033-.038
Torque	25 lb.ft.

STARTING SYSTEM

STARTING MOTOR

Rotation (Drive End View) Clockwise
 Test Conditions Engine at operating temp.

No Load Test

Amps	
L6-250 Cu.In.	49-87
V8-350 & 400 Cu.In.	70-99
V8-402 & 454 Cu.In.	70-99
Volts	10.6
RPM	
L6-250 Cu.In.	6200-10700
V8-350 & 400 Cu.In.	7800-12000
V8-402 & 454 Cu.In.	7800-12000

Motor Drive

Engagement	Solenoid
Pinion Meshes at	Rear
Pinion Tooth No.	9
Flywheel Tooth No.	
L6-250, V8-350 & 400 Cu.In.	153
V8-402 & 454 Cu.In.	168
Mounting	
L6-250, V8-350 & 400 Cu.In.	Bolted to cylinder block flange
V8-402 & 454 Cu.In.	Bolted to clutch housing

DISTRIBUTORS	Transmission	250 Cu.In.	350 Cu.In.	400 Cu.In.	402 Cu.In.	454 Cu.In.
		Standard	Standard	RPO LF6	RPO LS3	RPO LS5
Model	Manual	1110489				
	Automatic	1110489	1112005	1112056	1112057	1112052
Type		Single breaker				
Cam angle		31°-34°	29°-31°		28°-30°	
Breaker gap		.019 (new)				
Breaker arm tension		19.23			28 - 33	
Centrifugal advance begins @ RPM	Manual	1270				
	Automatic	1270	1000	1270	1260	1143
Maximum degrees @ RPM	Manual	24 @ 4100				
	Automatic	24 @ 4100	24 @ 4300	24 @ 4500	30 @ 4400	22 @ 3900
Vacuum advance begins @ In. Hg.	Manual	8.00				
	Automatic	8.00	8.00	7.00	8.00	
Maximum degrees @ In. Hg.	Manual	22 @ 16				
	Automatic	22 @ 16	20 @ 17	24 @ 15	20 @ 17	
Timing (initial design setting) Crankshaft degrees @ RPM with vacuum line disconnected	Manual	4° BTC @ 700				
	Automatic	4° BTC @ 600	6° BTC @ 600	8° BTC @ 600	8° BTC @ 600	
Timing mark location		Torsional damper				

CLUTCHES AND TRANSMISSIONS

● CLUTCHES

Engine	Type - Cubic Inch	L6-250 Cu.In.		
	Availability	Standard		
Clutch for		3-Speed		
Type		Single dry disc		
Clutch cover & pressure plate	Eff. plate load, lbs.	1950 - 2200		
	Press. plate matl.	Cast Iron		
	Clutch spring type	Diaphragm		
	Clutch spring matl.	Heat treated spring steel		
Driven plate	Type	Single disc with two friction surfaces		
	Cushions	Flat spring steel between friction rings		
	Damper	6 outer coil and 3 inner coil springs equally spaced		
	Friction ring	OD	11.00	
		ID	6.50	
		Total area Sq. in.	123.70	
Material		Woven asbestos		
Flywheel & Ring gear	Flywheel	Material	Nodular Iron	
		Material	Heat treated steel	
	Ring gear	No. of teeth	153	
		PD	12.75	
		Attachment	Shrink fit	
Bearings	Release	Type	Single row ball	
		Lubrication	None, prepacked	
	Pilot	Type	Bronze bushing	
		Lubrication	None, sintered and oil impregnated	
Controls	Clutch fork	Drop forged steel, pivot mounted on ball		
	Pedal mounting	Pendant, from brace on dash		
	Lubrication	Crossover shaft		
Clutch housing material		Aluminum alloy		

● 3-SPEED TRANSMISSION

Engine	Type	L6-250 Cu.In.		
	Application/Availability	Standard		
Case material		Cast iron		
Gear Shift	Type	Remote		
	Control	Lever		
	Location	Steering column		
Gears	Type	Helical		
	Material	Forged steel, hardened		
	Synchronization	All forward gears		
	Constant mesh gear	All gears		
	Sliding gears	None		
	Ratios	First	2.85	
		Second	1.68	
Third		1.00		
Reverse		2.95		
Lubricant	Type	Meeting Military Specifications MIL-L-2105B		
	Capacity (pts)	3		
Extension	Material	Cast iron		
	Oil seal	Steel encased double seal of spring loaded rubber or felt		

● Not to be merchandised after January 1, 1972.

TRANSMISSIONS

●POWERGLIDE

Engine	Type	L-6 250 Cu.In.		
	Availability	Standard		
General data	Type	Automatic hydraulic torque converter with planetary gear system for low and reverse		
	Selector lever	Location	Steering column	
		Operation	Actuates manual valve in hydraulic control system	
		Quadrant pattern	P-R-N-D-L	
	Parking lock	Type	Pawl and gear (on planetary)	
		Operation	Applied by selector lever thru spring loaded linkage	
	Method of cooling	Water		
Flywheel assembly	Steel stamping with welded on ring gear			
Hydraulic	Manual valve type	Spool		
	Pressure regulator valve type	Spool		
	Pressure @ Idle (a)	Drive	51	
		Low	112	
Reverse		91		
Converter assembly	Type	Three element		
	Pump	Inner and outer sheet steel shells separated by sheet steel vanes. Outer shell is pump housing which is welded to converter housing.		
	Turbine	Inner and outer shells separated by sheet steel vanes. Assembly supported in converter cover.		
	Stator	Operation independent of cover and pump housing. Aluminum air foil supported on a stationary sleeve by an over-running clutch of cam and roller design.		
	Stall torque ratio	2.10		
	Stall speed (RPM)	1620		
	Diameter (nominal)	11.0		
Planetary gear set	Type	Compound planetary		
	Range	Drive	1.82 to 1.00	
		Low	1.82	
		Reverse	1.82	
	Low band	Three linked circular segments		
Low band servo	Piston with release spring and inner cushion spring			
Case	Material	Aluminum (one piece)		
High clutch	Type	Multi-disc		
	Drive plates	Description	Waved steel with bonded organic facings	
		Number	3	
	Driven plates	Description	Flat steel	
Number		4		
Reverse clutch	Type	Multi-disc		
	Drive plates	Description	Flat steel with bonded organic facings	
		Number	4	
	Reaction plates	Description	Flat steel	
Number		3		
Torque multiplication	Maximum overall ratio	3.82		
	Low and reverse	3.82 to 1.82		
Lubricant	Type	A suffix A		
	Capacity (pts)	Dry	17	
		Refill	6	
Governor	Type	Centrifugal		
	Operation	Regulates pump oil pressure to automatic shift control valve		
	Drive	Mounted on output shaft		
	Location	In extension		
Oil pump	Type	Internal-external gear		
	Number	One; front		
	Function	To supply pressure		
	Drive	Converter pump		

(a) 450 RPM input @ 25 in. Hg. vacuum

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TRANSMISSIONS

TURBO-HYDRAMATIC

Engine	Displacement		V8-350 & V8-400	V8-402 & 454
General Data	Type		Automatic hydraulic torque converter with compound planetary gear system - three forward speeds and reverse	
	Selector lever	Location	Steering column	
		Operation	Actuates controls by a hydraulic system from pressurized gear type pump	
		Quadrant pattern	P-R-N-D-L2-L1	
	Parking Lock	Type	Locking pawl	
		Operation	Applied by selector lever through manual linkage	
	Method of cooling		Water	
	Flywheel assembly		Steel stamping with welded on ring gear	
Oil pressure pump		Supplies hydraulic pressure from an engine driven gear type pump		
Hydraulic System	Type		Steel spool	
	Manual		Establishes range at transmission operation	
	Pressure regulator		Controls main line pressure	
	Shift (1-2)		Controls oil pressure for transmission shift from 1-2 or 2-1	
	Shift (2-3)		Controls oil pressure for transmission shift from 2-3 or 3-2	
	Modulator		Regulates line pressure with modulator oil pressure that varies with torque to transmission	
	Accumulator		To obtain greater flexibility in attaining desired shift curve for various engine requirements	
	Pressure @ Idle (a)	Drive	55	70
		L2	80	150
		L1	80	150
Reverse		84	107.5	
Converter Assembly	Pump (Drive member)		Multivane type, sheet metal blade spot welded to steel pump housing that is an integral part of the converter housing	
	Turbine (Driven member)		Steel axial flow blades assembled between inner & outer steel shells	
	Stator assembly		Aluminum multivane type blades mounted on a one way (overrunning) roller clutch	
	Stall ratio		2.10	
	Stall speed (RPM)		2110	
	Diameter (nominal)		11.75	12.20
Planetary Gear Set	Reaction carrier assembly		4 steel pinion gears	
	Output carrier assembly		4 steel pinion gears	
	Front band		Circular steel with organic lining	
	Rear Band		Double wrap circular steel	
	Intermediate band		Circular steel with organic lining	
	Range	D (Drive)	2.52:1 - 1.52:1 - 1.00:1	2.48:1 - 1.48:1 - 1.00:1
		L2 (Low two)	2.52:1 - 1.52:1	2.48:1 - 1.48:1
		L1 (Low one)	2.52:1	2.48:1
		R (Reverse)	1.93:1	2.08:1
	Servo Unit		Piston with release spring and inner cushion spring	
Case	Material		Aluminum	
Clutches	Type		Four, multiple disk	Three, multiple disk
	Material	Drive plates	Steel with bonded organic facings	
		Driven plates	Flat steel	
	Forward clutch		4 each drive & driven plates	5 each drive & driven plates
	Direct clutch		4 each drive & driven plates	5 each drive & driven plates
	Intermediate clutch		2 each drive & driven plates	3 each drive & driven plates
	Low & Reverse clutch		4 each drive & driven plates	
Release spring		Radial row steel coil		
Torque Multiplication	Drive (maximum)		5.29:1 to 1.00	5.21:1 to 1.00
	Low 2		5.29:1 to 1.52	5.21:1 to 1.48
	Low 1		5.29:1 to 2.52	5.21:1 to 2.48
	Reverse		4.05:1 to 1.93	4.37:1 to 2.08
Governor	Type		Cross-axis centrifugal	
	Operation		Regulates a pressure proportional to car speed which acts upon the (1-2) (2-3) shift and modulator valves	
Lubricant	Type		A suffix A	
	Capacity (pints)	Dry	20	22
		Refill	5	8

(a) 450 RPM input @ 25 in. Hg. vacuum