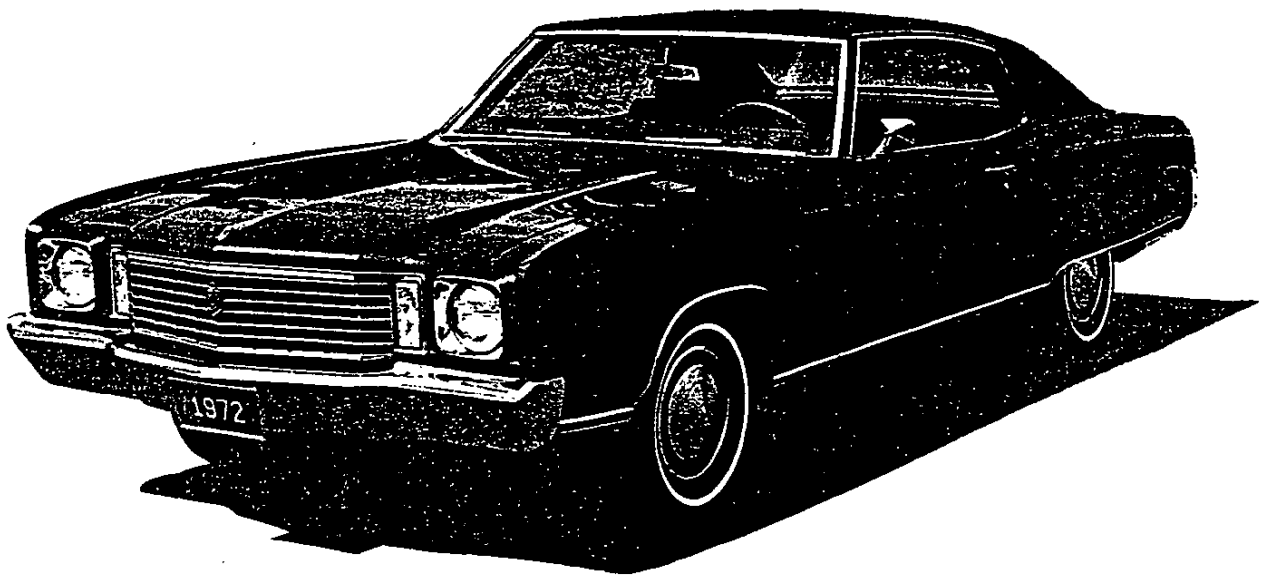




# Chevrolet



*1972 Monte Carlo*



# Monte Carlo

Coupe 13857—V8.....6

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# Monte Carlo Custom

Coupe with RPO Z03 Custom Equipment.....7

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## Interiors

8-9

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## Standard Equipment

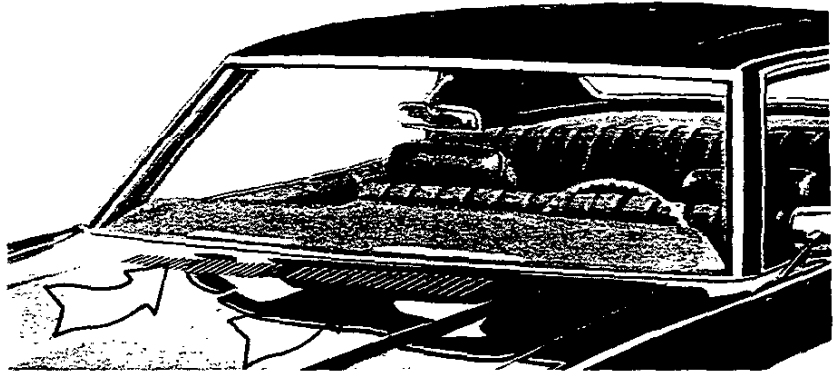
2-5

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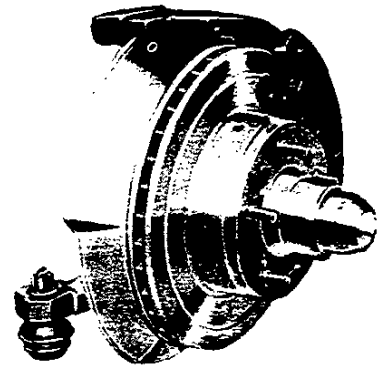
## Color & Trim

10-11

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*Astro Ventilation system*



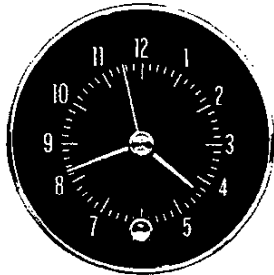
*Power disc/drum brake system*

# Standard Equipment

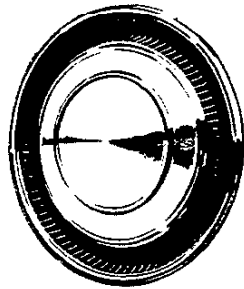
Hide-A-Way windshield wipers  
 ◦ Flush-styled side windows ◦ Full door-glass styling ◦ Curved side windows ◦ Hide-A-Way antenna built into windshield glass (with radio) ◦ Astro Ventilation system  
 ◦ Steering wheel with cushioned center ◦ Foot-operated parking brake ◦ Deep-twist carpet floor covering ◦ Extra-thick foam cushioned front and rear seats  
 ◦ Efficient valve-in-head engine design ◦ Fuel evaporation control system ◦ Sealed side-terminal energizer battery ◦ Quiet

hydraulic valve lifters ◦ Automatic choke on all engines  
 ◦ Advanced accessory drive system on all V8 engines  
 ◦ Positive-shift starter ◦ Long-life exhaust system ◦ Delcotron generator ◦ Side-guard beam door structure  
 ◦ Flush-mounted windshield and rear window bonded to body  
 ◦ Dual-speed electric windshield wipers  
 ◦ Built-in blended-air heater and defroster system  
 ◦ Cargo-guard luggage compartment bulkhead  
 ◦ Double-panel door, hood, and deck lid construction  
 ◦ Flush-and-dry rocker panels  
 ◦ Inner

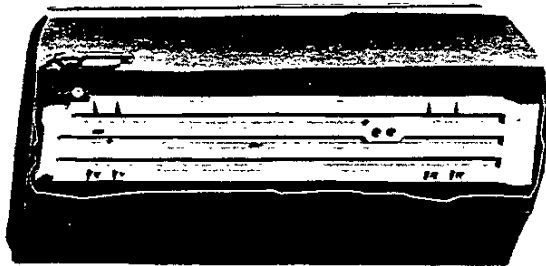
fenders front and rear ◦ Magic-Mirror acrylic lacquer finish  
 ◦ Advanced Full Coil suspension system  
 ◦ Computer-selected springs  
 ◦ Power disc/drum brake system with ventilated front discs and finned rear drums  
 ◦ Self-adjusting brakes  
 ◦ Wide 15 x 6 wheels (15 x 7 with Monte Carlo Custom)  
 ◦ Bias belted ply tires  
 ◦ Separate perimeter-type frame  
 ◦ Advanced body mounting system  
 ◦ Forward-mounted steering gear and linkage  
 ◦ Variable-ratio power steering



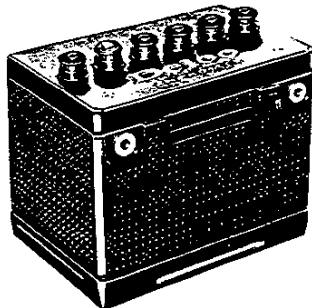
Electric clock



Full wheel covers



Side-guard beam door structure



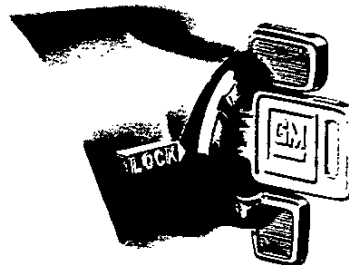
Sealed side-terminal energizer battery

## Monte Carlo Safety and Security Features

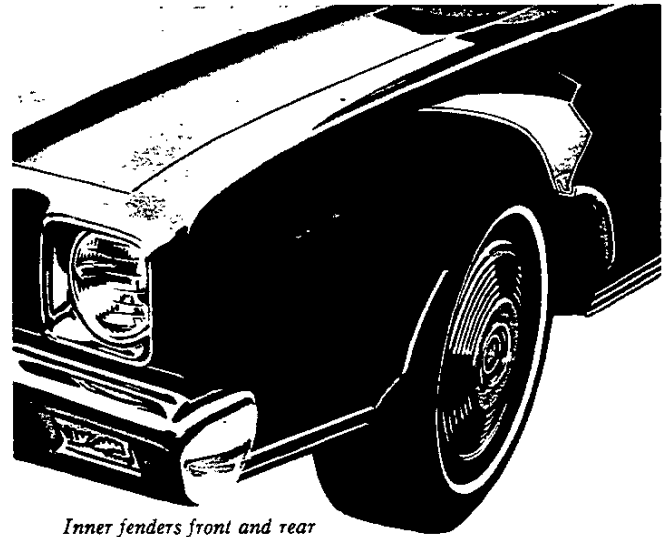
### Occupant Protection Features

Seat belts with pushbutton buckles for all passenger positions  
 ◦ Shoulder belts with pushbutton buckles—driver and right front passenger  
 ◦ Two front seat head restraints  
 ◦ Energy-absorbing steering column  
 ◦ Passenger-guard door locks with forward-mounted lock buttons  
 ◦ Safety door latches and hinges  
 ◦ Folding seat back latches  
 ◦ Energy-absorbing instrument panel and front seat back tops  
 ◦ Contoured

windshield header  
 ◦ Thick-laminate windshield  
 ◦ Padded sun visors  
 ◦ Safety armrests  
 ◦ Safety steering wheel  
 ◦ Side-guard beams  
 ◦ Cargo-guard luggage compartment  
 ◦ Fuel tank impact security  
 ◦ Glove compartment and console door latch impact security  
 ◦ Yielding windshield pillar moldings  
 ◦ Smooth-contoured door and window regulator handles  
 ◦ Soft, low-profile window control knobs, coat hooks, dome light  
 ◦ Two front seat belt retractors  
 ◦ Shoulder belt anchorages for rear seat outboard occupants  
 ◦ Pressure lock radiator cap  
 ◦ High-strength front seat anchorages and construction



Anti-theft steering column lock



Inner fenders front and rear

◦ High-strength rear seat retention  
 ◦ Stamped steel door hinges

### Accident Prevention Features

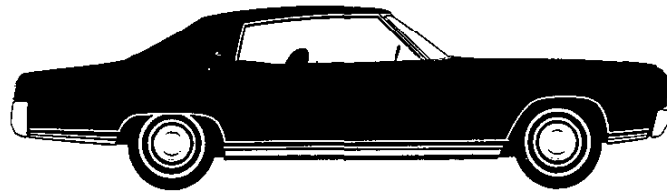
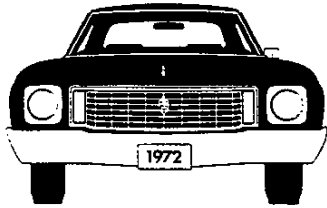
Side marker lights and reflectors (front side marker lights flash with direction signal)  
 ◦ Parking lights that illuminate with headlights  
 ◦ Four-way hazard warning flasher  
 ◦ Back-up lights  
 ◦ Lane-change feature in direction signal control  
 ◦ Windshield defroster, washers, and dual-speed wipers  
 ◦ Wide-view inside day-night mirror (vinyl-edged, shatter-resistant glass and deflecting support)  
 ◦ Outside rearview mirror  
 ◦ Dual master cylinder brake system with warning light  
 ◦ Starter safety switch  
 ◦ Dual-action safety hood latches  
 ◦ Headlight aiming access provision  
 ◦ Low-glare instrument panel top, inside windshield moldings, wiper arms and blades, and steering wheel metallic surfaces  
 ◦ Safety wheel rims  
 ◦ Uniform shift quadrant  
 ◦ No winged wheel nuts, covers, or caps  
 ◦ Self-adjusting brakes

### Anti-Theft Features

Anti-theft ignition key warning buzzer  
 ◦ Anti-theft steering column lock  
 ◦ Multiple key combinations  
 ◦ Visible vehicle identification  
 ◦ Tamper-resistant odometer with telltale feature

## Monte Carlo Features

# Monte Carlo



Bright grille with center crest  
◦ Distinctive hood ornament with emblem  
◦ Hood rear edge molding  
◦ Bright roof drip moldings  
◦ Black-accented lower body and fender moldings  
◦ Bright wheel opening moldings  
◦ Full wheel covers  
◦ Bright full-width rear panel molding  
◦ Single-unit vertical taillights with bright accents  
◦ Luxurious pattern cloth and vinyl upholstery (all-vinyl interior available at extra cost;

Strato-bucket seats in cloth-and-vinyl or all-vinyl also available at extra cost)  
◦ Color-keyed deep-twist carpeting on floor, lower door panels, and lower edge of front seat back  
◦ Vinyl door and sidewall trim with bright accents  
◦ Vinyl assist grips on doors  
◦ Stowage pockets formed in doors  
◦ Rich simulated wood-burl accents on instrument panel and steering wheel  
◦ Cigarette lighter  
◦ Glove compartment lock

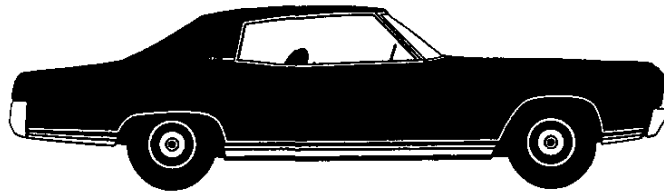
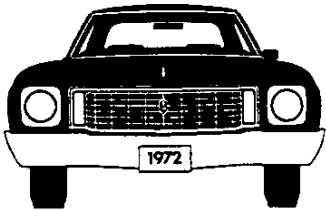
and light  
◦ Electric clock  
◦ Center dome light  
◦ Front door automatic dome light switches  
◦ Extra-thick foam-cushioned front and rear seats  
◦ Armrests front and rear  
◦ Luggage compartment mat  
◦ 165-hp Turbo-Fire 350 V8

*Appearance features available for Monte Carlo include: vinyl roof cover; belt molding; full wheel covers; custom wheel covers; rally wheels; white stripe tires.*

## Monte Carlo Features

# Monte Carlo Custom\*

\*Coupe with RPO Z03 Custom equipment. Bold face indicates feature in addition to or replacing standard Monte Carlo equipment.



Bright grille with center crest  
◦ Distinctive hood ornament with emblem  
◦ Hood rear edge molding  
◦ **Left-hand remote control sport mirror**  
◦ **Belt molding**  
◦ Black-accented lower body and fender moldings  
◦ Bright wheel opening moldings  
◦ **Custom wheel covers**  
◦ 15 x 7 wheels  
◦ G70 x 15 blackwall tires  
◦ Bright full-width rear panel molding  
◦ Single-unit vertical taillights with bright accents  
◦ Luxurious pattern cloth and vinyl upholstery (all-vinyl interior available at extra cost; Strato-bucket seats in cloth-and-

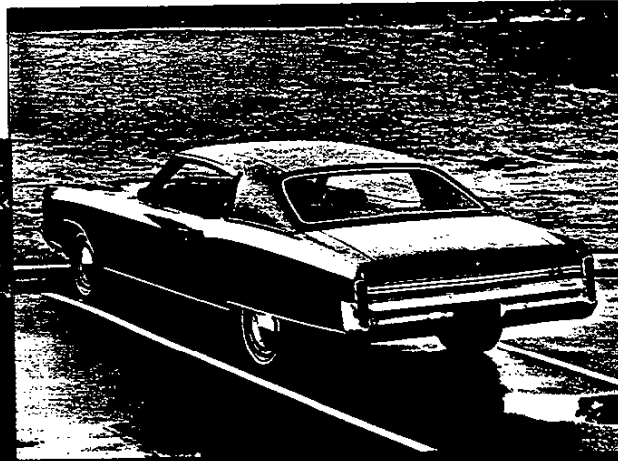
vinyl or all-vinyl also available at extra cost)  
◦ Color-keyed deep-twist carpeting on floor, lower door panels, and lower edge of front seat back  
◦ Vinyl door and sidewall trim with bright accents  
◦ Vinyl assist grips on doors  
◦ Stowage pockets formed in doors  
◦ Rich simulated wood-burl accents on instrument panel  
◦ **Custom steering wheel (4-spoke Sport steering wheel when Comfortilt is ordered)**  
◦ Cigarette lighter  
◦ Glove compartment lock and light  
◦ Electric clock  
◦ Center dome light  
◦ Front door automatic dome light

switches  
◦ **Auxiliary lighting (ashtray light, courtesy lights, mirror map light, luggage compartment light, underhood light)**  
◦ Extra-thick foam-cushioned front and rear seats  
◦ Armrests front and rear  
◦ Luggage compartment mat  
◦ 165-hp Turbo-Fire 350 V8  
◦ **Sport suspension with front and rear ride stabilizers**  
◦ **Special acoustical package**

*Appearance features available for Monte Carlo Custom include: vinyl roof cover; white stripe tires.*



# Monte Carlo



6/Monte Carlo

# Monte Carlo Custom\*

\*Coupe with Custom Equipment (RPO Z03). Extra-cost G70 x 15 white stripe tires (RPO P90) and vinyl roof cover also illustrated.



# Monte Carlo Color & Trim

## Interior Trim

model	seat style	Black		Blue	Covert		Green		Pewter	Saddle
		cloth	vinyl	cloth	cloth	vinyl	cloth	vinyl	cloth	vinyl
Coupe	conventional	706	708	725	731	734	715		740	735
	Strato-bucket (RPO A51)	706	708					717	740	735

## Exterior Colors

	code	Black	Blue	Covert	Green	Pewter	Saddle
Ascot Blue	24	X	X				
Mulsanne Blue	26	X	X				
Midnight Bronze	68	X		X			X
Golden Brown	57	X		X			
Mohave Gold	63	X		X			X
Placer Gold	53	X		X			X
Gulf Green	43	X		X	X		
Sequoia Green	48	X		X	X		X
Spring Green	36	X					
Orange Flame	65	X					X
Cranberry Red	75	X					X
Pewter Silver	14	X			X	X	X
Covert Tan	50	X		X	X		X
Antique White	11	X	X	X	X	X	X
Cream Yellow	56	X		X			X

## Two-tone Combinations

lower color	code	upper color	code	Black	Blue	Covert	Green	Pewter	Saddle
Mulsanne Blue	26	Antique White	11	X	X				
Golden Brown	57	Antique White	11	X		X			
Mohave Gold	63	Antique White	11	X		X			X
Gulf Green	43	Antique White	11	X		X	X		
Sequoia Green	48	Antique White	11	X		X	X		X

## Vinyl Roof Cover Color Choices (RPO C08)

vinyl roof color	code	exterior color availability
Black	BB	all exterior colors
Covert	TT	Golden Brown, Midnight Bronze, Mohave Gold, Placer Gold, Sequoia Green, Orange Flame, Antique White, Covert Tan or Cream Yellow
Green	GG	Gulf Green, Sequoia Green, Pewter Silver or Antique White
Tan	FF	Midnight Bronze, Mohave Gold or Antique White
White	AA	all exterior colors

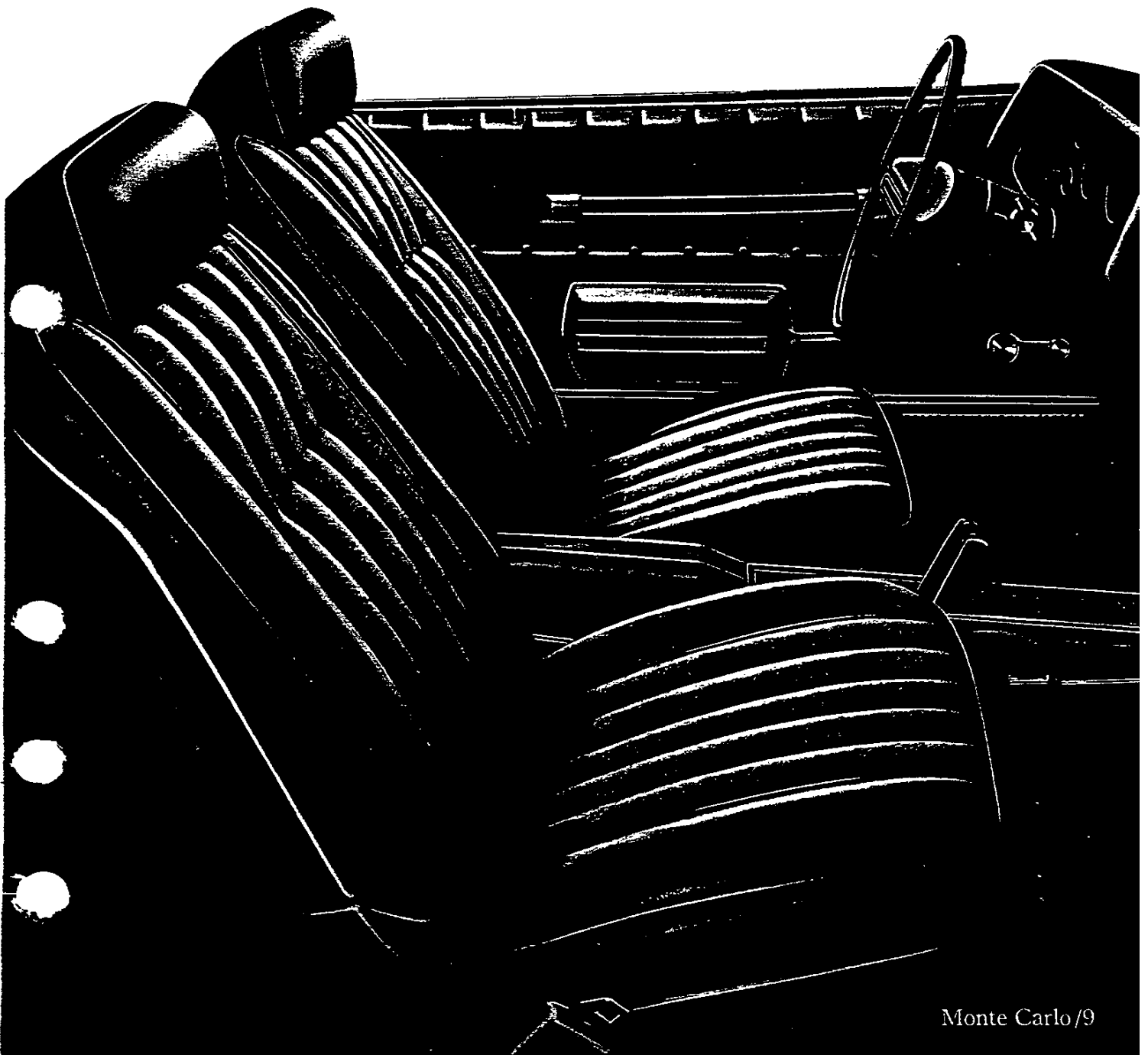
## Seat and Shoulder Belt Colors

*Standard seat and shoulder belt buckles black; Custom Deluxe buckles brush-finished.*

interior color	standard belts	custom deluxe belts
Black	Black	Black
Blue	Black	Dark Blue
Covert	Black	Covert
Green	Black	Dark Green
Pewter	Black	Pewter
Saddle	Black	Dark Saddle

# Monte Carlo Strato-Bucket Seat\* Interior

*\*Extra cost. All-vinyl seat trim shown; cloth and vinyl also available*

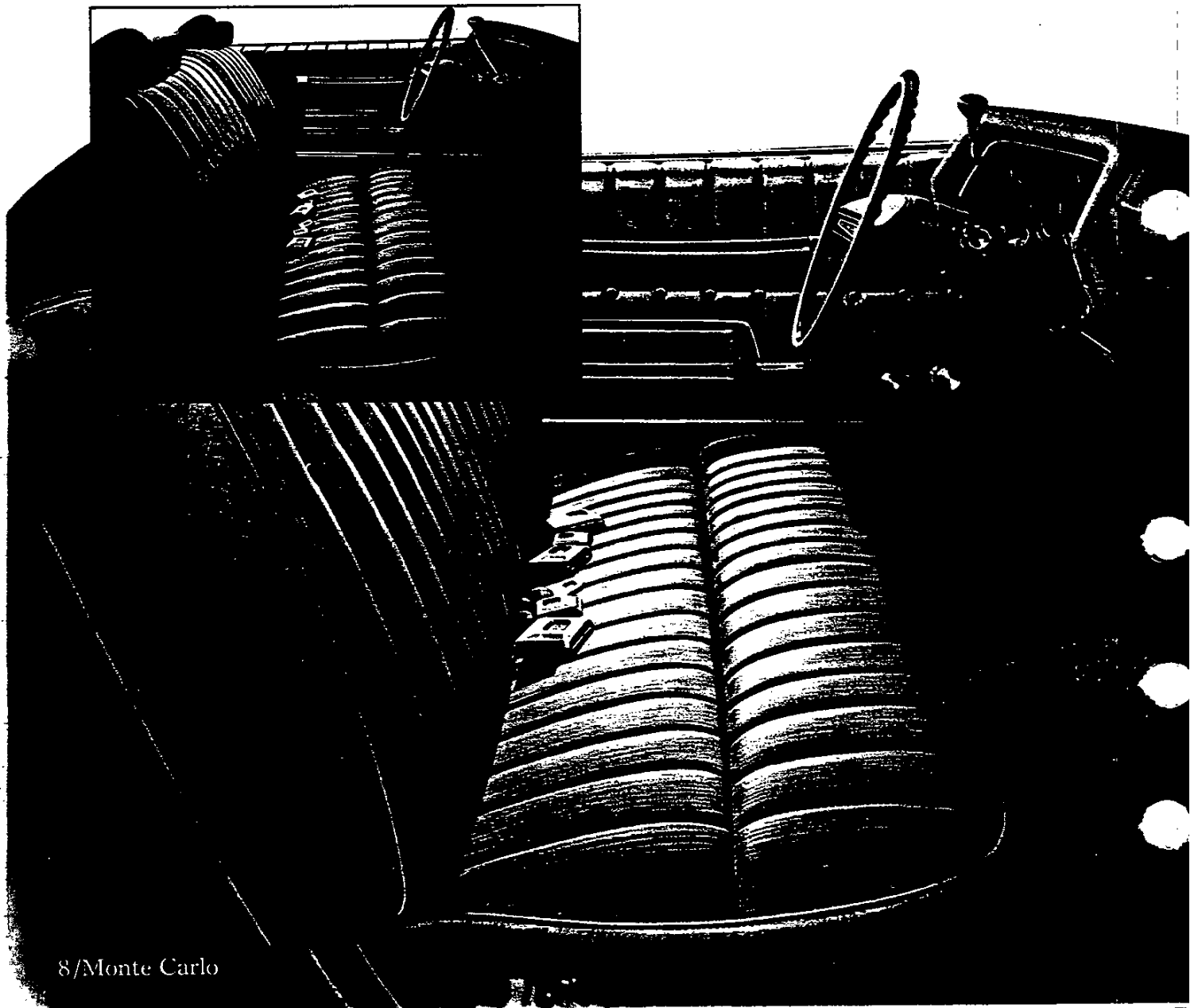


Monte Carlo/9

# Monte Carlo Cloth & Vinyl\* Interior

*\*standard*

All-vinyl interior available at extra cost



# MONTE CARLO

## 1972 MODELS WITH STANDARD EQUIPMENT (116" Wheelbase)

Model Number and Description	Dealer Invoice Amount*	Dealer Price	Factory D & H	List Price	Mfr's Suggested Retail Price*	Destination Group No.	Destination Charge	Total
<b>8-Cylinder Model</b>								
<b>■ 165-hp Turbo-Fire 350 Engine (2/SE)</b>								
13857 Coupe—6-Passenger.....					\$3513.00	10		

■ Available for registration in the State of California when California Assembly Line Emission Test (Option YF5) is applied.  
 \* Manufacturer's Suggested Retail Prices do not include state and local taxes, license fees, options or accessories.

### OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D & H	List Price	Mfr's Suggested Retail Delivered Price <sup>◇</sup>
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#### MODEL OPTION

**Monte Carlo Custom:** Includes belt moldings; LH remote-control sport mirror; custom wheel covers; custom nameplates; special acoustical package; ashtray, courtesy, luggage compartment, mirror map light and underhood lights; special front and rear suspension; G70-15 blackwall tires and 15" x 7" wheels.

Without comfortilt steering wheel. Also includes custom steering wheel....	Z03	\$224.35
With comfortilt steering wheel. Also includes 4-spoke sport steering wheel.	Z03	224.35

#### FEATURE GROUPS

*(Any item contained in a feature group may be ordered separately)*

##### APPEARANCE GUARD GROUP

INCLUDES:

(A) Guards, Bumper: Front and Rear.....	V30	32.65
(B) Guards, Door Edge.....	B93	6.35
(C) Mats, Color-Keyed Floor: 2 Front, 2 Rear.....	B37	12.65
(D) Mirror, Visor Vanity.....	D34	3.20
➤ For Coupe model—Includes A, B, C & D.....	ZP5	54.85

##### OPERATING CONVENIENCE GROUP

INCLUDES:

(A) Defroster, Rear Window: (Forced-Air).....	CS0	32.65
(B) Mirror, L.H. Outside Remote-Control Rearview: Not available when Monte Carlo Custom is ordered.....	D33	12.65
For Coupe model without Monte Carlo Custom—Includes A & B.....	ZQ2	45.30
For Coupe model with Monte Carlo Custom—Includes A.....	ZQ2	32.65

\* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with Vehicle Terms of Sale Bulletin.  
 ◇ State and local taxes not included.

➤ Indicates Change

# MONTE-CARLO

## OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D & H	List Price	Mfr's Suggested Retail Delivered Price <sup>◇</sup>
<b>POWER TEAMS</b>						
<i>(See Power Teams Chart for availability and complete engine specifications)</i>						
<b>Engines:</b> Available only when Turbo Hydra-matic transmission is ordered						
175-hp Turbo-Fire 350 (4/SE). Available for registration in the State of California.....	L48					\$ 48.45
240-hp Turbo-Jet 400. Not available for registration in the State of California.....	LS3					149.60
270-hp Turbo-Jet 454. Available only when HD battery is ordered. Not available for registration in the State of California.....	LS5					274.90
<b>Transmissions:</b>						
Powerglide. Available with standard engine only.....	M35					195.40
<b>Turbo Hydra-matic</b>						
With Standard or 175-hp Turbo-Fire 350 engine.....	M40					221.80
With 240-hp Turbo-Jet 400 or 270-hp Turbo-Jet 454 engine.....	M40					243.95
<b>Axle, Positraction Rear</b> .....	G80					47.40
<b>Axle Ratio: Trailering.</b> Available only when standard engine and Turbo Hydra-matic transmission are ordered.....	YD1					12.65

### POWER ASSISTS

<b>Door Lock System, Power: Electric</b> .....	AU3					47.40
<b>Seats, Power: Electric. 4-way control</b>						
With bench seat.....	A41					81.10
With bucket seat. Driver's seat only.....	A46					81.10
<b>Windows, Power: Electric</b> .....	A31					130.60

### OTHER OPTIONS

<b>Air Conditioning: Four-Season.</b> Includes 61-amp generator and increased cooling.....	C60					418.15
<b>Battery, Heavy-Duty:</b> 15-plate, 80-amp-hr.....	T60					15.80
→ <b>Belts, 3-Point Seat:</b> Includes warning light.....	AV3					<i>Will Advise Price and Availability</i>
<b>Belts, Custom Deluxe Seat and Shoulder:</b> Includes brushed metal buckles and color-keyed belts. (Standard plastic buckles and belts are black).						
<b>REPLACING STANDARD NUMBER OF BELTS;</b>						
Coupe with bench seat—6 seat and 2 front shoulder.....	AK1					16.90
Coupe with bucket seats—5 seat and 2 front shoulder.....	AK1					15.30
<b>California Assembly Line Emission Test:</b> Released to conform with State of California registration requirements. Not available when 240-hp Turbo-Jet 400 or 270-hp Turbo-Jet 454 engine is ordered.....	YFS					15.80
<b>Console:</b> Available only when bucket seats and optional transmission are ordered. Includes rear seat courtesy light and compartment. Shift lever mounted on console.....	D55					60.05
<b>Generator, 63-Amp Delco-tron:</b>						
Without air conditioning.....	K85					27.40
With air conditioning.....	K85					5.30

\* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with Vehicle Terms of Sale Bulletin.  
<sup>◇</sup> State and local taxes not included.

→ Indicates Change

# MONTE CARLO

## OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D & H	List Price	Mfr's Suggested Retail Delivered Price <sup>◇</sup>
<b>Glass, Soft-Ray Tinted:</b> All windows .....	A01					\$ 47.40
<b>Instrumentation, Special:</b> Includes tachometer, ammeter and temperature gauge mounted in instrument panel .....	U14					70.60
<b>Lighting, Auxiliary:</b> Included when Monte Carlo Custom is ordered. Includes ashtray, courtesy, luggage compartment, mirror map and underhood lights .....	ZJ9					22.15
<b>Moldings: Belt.</b> Included when Monte Carlo Custom is ordered .....	B85					19.00
<b>Paints, Exterior:</b>						
<i>Solid.</i> .....						N.C.
<i>Two-Tone.</i> Includes bright metal outline moldings .....						53.75
<b>Radiator, Heavy-Duty:</b> Included when 270-hp Turbo-Jet 454 engine with air conditioning is ordered .....	V01					22.15
<b>Radio Equipment:</b>						
<i>Pushbutton</i>						
AM Radio .....	U63					68.50
AM/FM Radio .....	U69					142.20
AM/FM/Stereo Radio .....	U79					245.40
Stereo Tape System with AM Radio .....	UM1					205.40
Stereo Tape System with AM/FM/Stereo Radio .....	UM2					382.35
<i>Speaker, Rear Seat.</i> Not available when stereo is ordered .....	U80					15.80
<b>Roof Cover, Vinyl:</b> Includes bright metal outline moldings. See Color Selection Chart for solid exterior color availability.						
Black .....	BB					129.55
Covert (Light) .....	TT					129.55
Green (Medium) .....	GG					129.55
Tan (Medium) .....	FF					129.55
White .....	AA					129.55
<b>Shock Absorbers, Rear:</b> Superlift automatic level control .....	G67					91.65
<b>Shirts, Rear Fender:</b> Not available when Monte Carlo Custom, rally wheels, 15" x 7" wheels or custom wheel covers are ordered .....	T58					32.65
<b>Speed and Cruise Control:</b> (Cruise-Master) Available only when automatic transmission is ordered. Not available when superlift shock absorbers are ordered .....	K30					65.30
<b>Steering Wheels:</b>						
<i>Comfortilt.</i> Available only when optional transmission is ordered .....	N33					46.35
<i>Custom.</i> Not available when Monte Carlo Custom or comfortilt steering wheel is ordered .....	NK2					15.80
<i>Sport (4-Spoke).</i> Not available when Monte Carlo Custom is ordered .....	NK4					15.80
<b>Trim, Interior:</b> See Interior and Exterior Color Selection Chart for availability and ordering information						
<i>Vinyl Bench Seat.</i> .....						19.00
<i>Strato-Bucket Seats.</i> Cloth or Vinyl .....	AS1					140.10
<b>Wheel Covers:</b>						
<i>Deluxe.</i> Not available when Monte Carlo Custom is ordered .....	PA3					15.80
<i>Custom.</i> Included when Monte Carlo Custom is ordered. Includes 15" x 7" wheels .....	PO2					82.15
<b>Wheels, 15" x 7":</b> Not available when rally wheels are ordered. Included when Monte Carlo Custom or custom wheel covers are ordered .....	PH1					10.55
<b>Wheels, Rally:</b> Not available when Monte Carlo Custom is ordered. Includes special 15" x 7" wheels with special center caps and trim rings .....	ZT7					42.15

### FACTORY INSTALLED REGULAR PRODUCTION TIRES

<b>Replaces (5) G78-15/B Bias Belted Ply Blackwall</b>						
(5) G78-15/B Bias Belted Ply White Stripe. Not available when Monte Carlo Custom is ordered .....	PUB					33.30
<b>(5) G70-15/B Bias Belted Ply White Stripe</b>						
Without Monte Carlo Custom. Available only when 15" x 7" wheels, rally wheels or custom wheel covers are ordered .....	P90					50.35
With Monte Carlo Custom .....	P90					31.10

\* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with Vehicle Terms of Sale Bulletin.

◇ State and local taxes not included.



# MONTE CARLO POWER TEAMS

## Engine, Transmission and Rear Axle Combinations

(Engine horsepower ratings are reflected at "net" horsepower)

ENGINES		TRANSMISSIONS	SHIFT LEVER LOCATION		REAR AXLE RATIOS*	
Option Number and Model Application	Description	Type (Std or Optional)	Without Console	With Optional Console	Standard	Optional Trailering

### STANDARD ENGINE

■ Standard Eight-Cylinder	165-hp Turbo-Fire 350 (2/SE) 8-Cylinder 350-cu-in displacement Regular camshaft 2-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Single exhaust	3-Speed (Std)—ZW4	Column	Not Available	3.08	—
		Powerglide—M35	Column	In Console w/Floor Shift	2.73	—
		Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	2.73	3.31

### OPTIONAL ENGINES

■ Option L48	175-hp Turbo-Fire 350 (4/SE) 8-Cylinder 350-cu-in displacement Regular camshaft 4-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Single exhaust	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	2.73	—
● Option LS3	240-hp Turbo-Jet 400 8-Cylinder 402-cu-in displacement Regular camshaft 4-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Dual exhausts	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	2.73	—
● Option LS5	270-hp Turbo-Jet 454 8-Cylinder 454-cu-in displacement High-lift camshaft 4-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Dual exhausts	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	3.31	—

\* All ratios available as Positraction.

■ Available for registration in the State of California when California Assembly Line Emission Test (Option YF5) is applied.

● Not available for registration in the State of California.

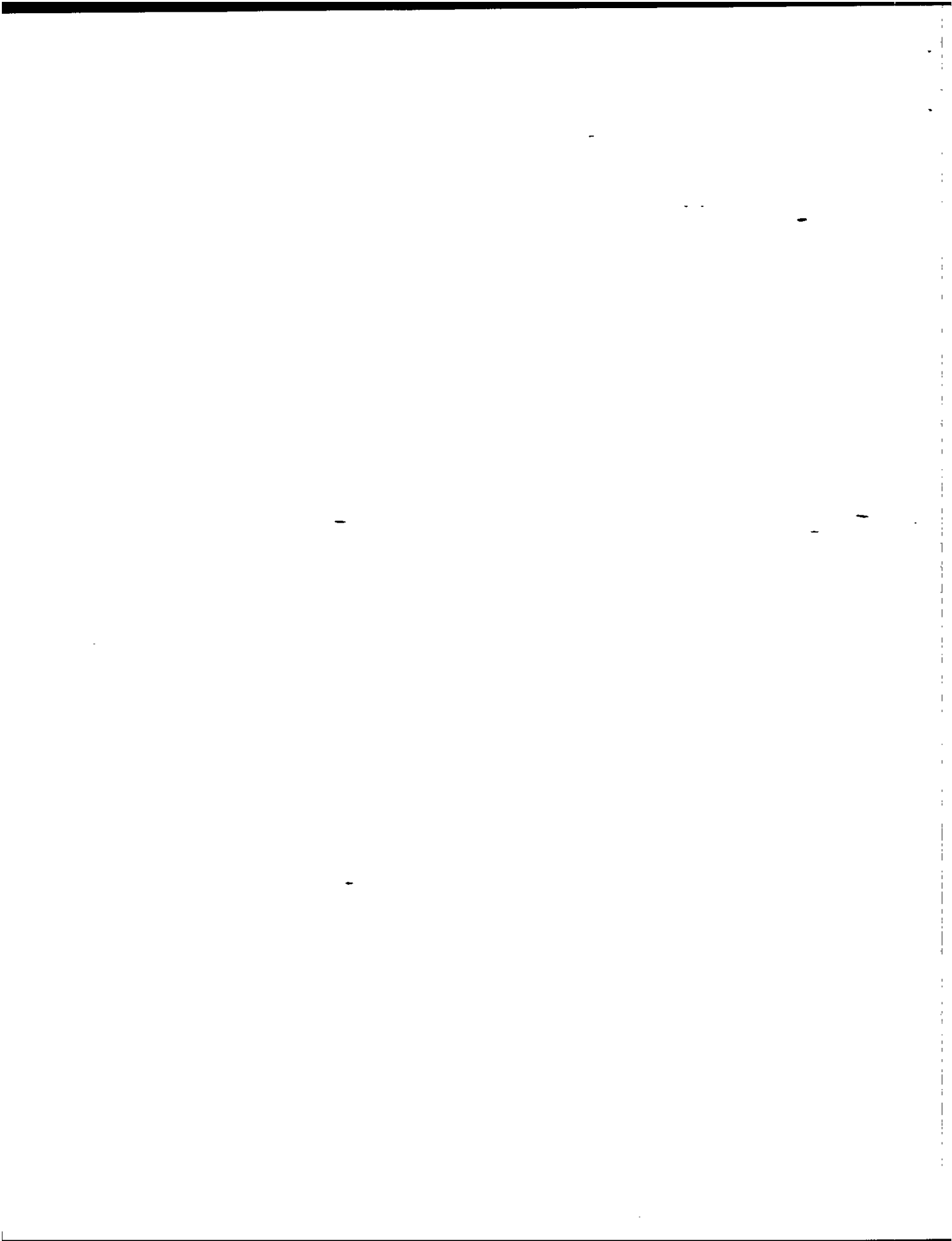
# MONTE CARLO INTERIOR AND EXTERIOR SELECTION CHART

**PLEASE NOTE:** The exterior and interior combinations for solid color paint shown in the chart below have been established as the combinations that would be attractive to the average customer. Orders for non-recommended solid color exterior and interior trim combinations may be submitted, provided the dealer initials the appropriate order form block as verification that the requested combination is definitely desired.

This procedure does not apply to orders that specify a vinyl roof cover, or two-tone paint as combinations shown are the only combinations that have been approved.

VINYL ROOF	SOLID EXTERIOR COLOR AVAILABILITY
BLACK	BB All Exterior Colors.
COVERT (Light)	TT Bronze, Brown, Gold, Sequoia Green, Orange, Tan, White or Yellow Exterior Colors only.
GREEN (Medium)	GG Gulf or Sequoia Green, Silver or White Exterior Colors only.
TAN (Medium)	FF Bronze, Mohave Gold or White Exterior Colors only.
WHITE	AA All Exterior Colors.

Type of Seat			INTERIOR TRIM									
			Black		Blue (Dark)	Covert (Light)		Green (Dark)		Pewter (Medium)	Saddle (Dark)	
			Cloth	Vinyl	Cloth	Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl	
COUPE	Bench		706	708	725	731	734	715	740	735		
	Strato-Bucket (Opt. A51)		706	708					717	740	735	
EXTERIOR COLOR			CODE									
SOLID			Lower	Upper								
Blue, Ascot			24	24	X	X						
Blue, Mulsanne			26	26	X	X						
Bronze, Midnight			68	68	X		X				X	
Brown, Golden			57	57	X		X					
Gold, Mohave			63	63	X		X				X	
Gold, Placer			53	53	X		X				X	
Green, Gulf			43	43	X		X	X				
Green, Sequoia			48	48	X		X	X			X	
Green, Spring			36	36	X							
Orange Flame			65	65	X						X	
Red, Cranberry			75	75	X						X	
Silver, Pewter			14	14	X			X	X		X	
Tan, Covert			50	50	X		X	X			X	
White, Antique			11	11	X	X	X	X	X		X	
Yellow, Cream			56	56	X		X				X	
TWO-TONE (With Antique White Upper only)			Lower	Upper								
Blue, Mulsanne (Lower)			26	11	X	X						
Brown, Golden (Lower)			57	11	X		X					
Gold, Mohave (Lower)			63	11	X		X				X	
Green, Gulf (Lower)			43	11	X		X	X				
Green, Sequoia (Lower)			48	11	X		X	X			X	



# GENERAL

MODEL IDENTIFICATION . . . . .	2
SERIAL NUMBERS AND IDENTIFICATION . . . . .	3
EXTERIOR EQUIPMENT . . . . .	4
INTERIOR EQUIPMENT . . . . .	5-6
EXTRA COST EQUIPMENT . . . . .	7-9
AIR CONDITIONING EQUIPMENT . . . . .	10

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## MODEL IDENTIFICATION

### MONTE CARLO SPORT COUPE

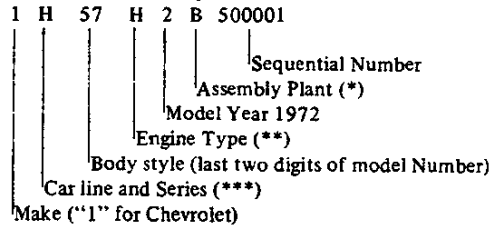
- MODEL 13857 2-DOOR SPORT COUPE, 6-PASSENGER

# SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

## VEHICLE IDENTIFICATION NUMBER

### Vehicle Designation Interpretation



\*B - Baltimore-GMAD      L - Van Nuys-GMAD  
K - Leeds-GMAD

Canadian plant  
No. 1 Oshawa

\*\*H - V8-350 (165 H.P.)      U - V8-402 (240 H.P.)  
J - V8-350 (175 H.P.)      W - V8-454 (270 H.P.)

\*\*\* - Monte Carlo

**EXAMPLE:** The twenty-fifth Monte Carlo vehicle built at GMAD Baltimore 13857 model (Monte Carlo Sport Coupe) with a V8-350 (165 H.P.) engine would bear VIN number 1H57H2B500025

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

## TRANSMISSION IDENTIFICATION

● Example: R4S2E01

Type Designation	Source Designation	Model Year	Production <sup>o</sup> Month & Date
R4	S (Muncie)	1972	E01D*

R4	3-Speed	V-8	S -
WD	4-Speed	V-8 engine	P - Muncie
RJ	Powerglide	V-8 engine	C - Cleveland
SA	Turbo Hydra-matic	V-8 engine	B - Cleveland Y - Toledo
CF	Turbo Hydra-matic	V-8 engine	- - Ypsilanti

3-Speed . . . . . Stamped on left side just below cover.

4-Speed . . . . . Stamped on . . . . . the right side of the case at adapter.

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

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

<sup>o</sup>-Month: 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: F1210CKA

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

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

CKA - Regular engine, 3-Speed, 2-bbl. carb.  
CDB - Regular engine, Powerglide, 2-bbl. carb.  
CKB - Regular engine, Turbo Hydra-matic (Chevrolet)

Turbo-Fire 350, 350 Cubic Inch V-8 (RPO-L48)

CKD - Optional engine, 4-speed, 4-bbl. carb.  
CRD - Optional engine, Turbo Hydra-matic (Chevrolet)

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

CLB - Optional engine, 4-speed, 4-bbl. carb.  
CSZ - Optional engine, Turbo Hydra-matic

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

CPD - Optional engine, Turbo Hydra-matic

Location:  
8-cylinder engine . . . . . Stamped on pad at front right side of cylinder block.

\* - Month: 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

FRONT	MONTE CARLO
Bright Hood Center Windsplit Molding . . . . .	X
Bright Windshield Reveal Molding . . . . .	X
Concealed Windshield Wipers and Articulated Left Blade . . . . .	X
Bright Hood and Fender Rear Molding . . . . .	X
Rectangular Grille Mounted Parking Lamp with Clear Lens and Amber Bulb . . . . .	X
Bright Die Cast Radiator Grille . . . . .	X
Single Headlamps . . . . .	X
Bright Headlamp Bezels . . . . .	X
Radiator Grille Crest Emblem . . . . .	X
SIDE	
Sail Panel Nameplate "Monte Carlo"—Script . . . . .	X
Rectangular Outside Rear View Mirror . . . . .	X
Between Wheels—Black Accented Body Side Lower Molding, and Black Painted Rocker with Bright Molding; Fore and Aft of Wheels— Black Accented One Piece Molding . . . . .	X
Bright Drip Molding . . . . .	X
Bright Wheel Opening Moldings . . . . .	X
Wheel Trim Covers . . . . .	X
Front Marker Lamp with Amber Lens (Framed in Fender Molding) . . . . .	X
Rear Marker Lamp with Red Lens (Framed in Quarter Molding) . . . . .	X
Bright Weather Strip Retainers . . . . .	X
REAR	
Rear End Applique Panel Nameplate "Monte Carlo By Chevrolet"— Script and Block . . . . .	X
Rear Window Reveal Molding . . . . .	X
Separate Bumper—Mounted Backup Lamps . . . . .	X
Tail Lamp Mounted in Rear Quarter End Cap; Bright Molding on Lens . . . . .	X
Bright Rear End Panel Molding . . . . .	X
Bright Molding Framing Upper Half of Tail Lamp . . . . .	X
Rear Deck Lid Crest . . . . .	X

## STANDARD INTERIOR EQUIPMENT

ROOF AND PILLARS	MONTE CARLO
Premier Vinyl Coated Headlining—Perforated . . . . .	X
Trim Color Windshield, Roof Rail and Rear Window Trim Lace . . . . .	X
12-Inch Prismatic Rear View Mirror with Gray Padded Edge . . . . .	X
Dull Chrome Rear View Mirror Support . . . . .	X
Padded Sunshades . . . . .	X
Air Gap Windshield Pillars . . . . .	X
Trim Color Plastic Coat Hooks . . . . .	X
Bright Bezeled Center Dome Lamp . . . . .	X
Front Door Jamb Switches . . . . .	X
Front Seat Shoulder Belt Anchor Cover (Belt Color) . . . . .	X
Front Seat Shoulder Belt Clip Retainers . . . . .	X
Embossed Board Rear Package Shelf . . . . .	X
SEATS AND FLOOR COVERING	
Front Seat Cushion with 2.00-Inch Foam Pad . . . . .	X
Rear Seat Cushion with 1.75-Inch Foam Pad . . . . .	X
Black Front Seat Adjuster Handle . . . . .	X
Bright Folding Front Seat Back Latch . . . . .	X
Front Seat Head Restraints . . . . .	X
Front and Rear Seat Belts — Six . . . . .	X
Front Seat Shoulder Belts — Two . . . . .	X
Carpeting Along Back of Front Seat at Bottom . . . . .	X
Front Seat Belt Anchor Cover (Belt Color) . . . . .	X
Carpet Passenger Compartment Floor Covering . . . . .	X
Luggage Compartment Spatter Paint . . . . .	X
Luggage Compartment Mat (Rubber and Foam Backed Vinyl) . . . . .	X
DOOR AND QUARTER PANEL	
Front Door Padded Armrest with Bright Backing Plate . . . . .	X
Built-In Rear Quarter Panel Armrest with Ash Tray . . . . .	X
Clear Plastic Window Control Handle Knobs . . . . .	X
Bright Door Lock Buttons . . . . .	X
Padded Vinyl Door and Quarter Panel Trim (Elk Texture); Carpeting Along Bottom of Doors . . . . .	X
Vinyl Door Assist Handle with Bright Escutcheons . . . . .	X
Formed Map Pocket in Doors . . . . .	X



# INTERIOR EQUIPMENT

## STANDARD INTERIOR EQUIPMENT

INSTRUMENT PANEL AND STEERING WHEEL	MONTE CARLO
Glove Compartment Light . . . . .	X
Heater Control Light . . . . .	X
Temperature, Generator, Oil Pressure and Brake Warning Lights . . . . .	X
Hi-Beam and Turn Signal Indicators . . . . .	X
Bright Cowl Vent Control Knob . . . . .	X
Bright Astro-Ventilation Control Knob . . . . .	X
Windshield Wiper and Washer Switch (Slide-Type, Depress to Wash) . . . . .	X
Soft Black Symbol Type Lighting Control Knob . . . . .	X
Bright Hazard Flasher Knob . . . . .	X
Soft Black Turn Signal and Transmission Shift Lever Knobs . . . . .	X
Steering Column Ignition Switch with Integral Steering Wheel and Transmission Lock . . . . .	X
T-Handle Parking Brake Release . . . . .	X
Blended Air Heater . . . . .	X
Two-Speed Windshield Wiper and Washer . . . . .	X
Ash Tray . . . . .	X
Cigarette Lighter with Soft Black Symbol Type Knob . . . . .	X
Speedometer, Odometer, Clock and Fuel Gage . . . . .	X
Instrument Panel Pad . . . . .	X
Instrument Panel Astro-Ventilation Outlets (R&L) . . . . .	X
Glove Compartment Door Lock . . . . .	X
A/C Hole Cover Plate with Bright "Chevrolet" Nameplate . . . . .	X
Wood-Grain Cluster Surface . . . . .	X
Steering Wheel with Wood-Grain Insert and "Monte Carlo" Nameplate . . . . .	X
Black Steering Wheel and Column . . . . .	X
<b>GLASS</b>	
Laminated Safety Float Glass Windshield (Thin Design) . . . . .	X
Solid Safety Plate Backlight . . . . .	X
Solid Safety Plate Side Windows . . . . .	X

# EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
<b>FEATURE GROUPS</b>		
(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 . . . . .	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 Monte Carlo) . . . . .	U35	ACC
Rear Window Defroster (Forced Air) . . . . .	C50	ACC
L.H. Outside Remote-Control Rearview Mirror . . . . .	D33	ACC
<b>MODEL OPTIONS</b>		
Console Front Compartment Floor . . . . .	D55	
Custom Option (Monte Carlo) . . . . .	Z03	
Gauges, Instrument Panel . . . . .	U14	
Seat, Front Bench . . . . .	A52	
Seat, Special Contour Bucket . . . . .	A51	
<b>POWER TEAMS</b>		
Turbo-Fire 350 V-8 . . . . .	L48	
Turbo-Jet 402 V-8 (Not available in California) . . . . .	LS3	
Turbo-Jet 454 V-8 (Not available in California) . . . . .	LS5	
Control, Floor Shift Transmission . . . . .	M11	
Heavy Duty 3-Speed Manual Transmission . . . . .	MC1	
Powerglide . . . . .	M35	
Turbo Hydra-matic . . . . .	M40	
Axle, Positraction . . . . .	G80	
Axle, Trailering Ratio . . . . .	YD1	

# EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
<b>POWER ASSISTS</b>		
Lock, Power Door . . . . .	AU3	
Seat, Power Bucket . . . . .	A46	
Seat, 4-Way Front Power . . . . .	A41	
Steering, Power . . . . .	N40	
Windows, Power . . . . .	A31	
<b>OTHER OPTIONS</b>		
Air Conditioning, Four-Season . . . . .	C60	
Battery, Heavy Duty . . . . .	T60	
Belts, Seat and Shoulder: In addition to or replacing standard belts. Custom Deluxe Belts: (Replacing standard number of belts)		
Coupe - 6 Seat and 2 Shoulder . . . . .	AK1	
Cap, Locking Gas Filler . . . . .		ACC
Carrier, Rear Deck . . . . .		ACC
Compass . . . . .		ACC
Dispenser, Tissue . . . . .		ACC
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	
Hitch, Trailer . . . . .		ACC
Highway Emergency Kit - Fire Extinguisher, Tire Inflator, Fuses . . . . .		ACC
Lighting, Auxiliary: . . . . .	Z19	
Engine Compartment Light		
Trunk Compartment Light		
Passenger Compartment Courtesy Lights		
Map Light		
Ash Tray Light		

## EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
<b>OTHER OPTIONS</b>		
Litter Container . . . . .		ACC
Mirror, LH Remote Control . . . . .	D35	
Mirror, RH . . . . .		ACC
Molding, Adhesive Backed Vinyl (38 Ft. Roll) . . . . .		ACC
Molding, Belt Reveal . . . . .	B85	
Monitor, Windshield Washer Fluid . . . . .		ACC
Radiator, Heavy Duty . . . . .	V01	
Radio Equipment: Radios, Pushbutton – Includes concealed w/s antenna.		
AM Radio . . . . .	U63	ACC
AM/FM Radio . . . . .	U69	ACC
AM/FM/Stereo Radio . . . . .	U79	ACC
Stereo Tape System with AM Radio . . . . .	UM1	ACC
Stereo Tape System with AM/FM/Stereo Radio . . . . .	UM2	ACC
Speaker, Rear Seat (Not available when stereo is ordered.) . . . . .	U80	ACC
Roof Cover, Vinyl . . . . .	C08	
Safety Seat – Child (Standard and Deluxe Types Available) . . . . .		ACC
Safety Seat – Infant . . . . .		ACC
Shock Absorbers, Rear:		
Level Control . . . . .	G67	ACC
Ski Rack – Roof Carrier Mount . . . . .		ACC
Skirts, Rear Fender . . . . .	T58	
Speed Control: (Cruise-Master) . . . . .	K30	ACC
Steering Wheel, Comfortilt . . . . .	N33	
Steering Wheel, Sport . . . . .	NK4	
Steering Wheel, Vinyl Rim . . . . .	NK2	
Two-Tone Finish . . . . .	D99	
Wheel, Special; Hub Cap and Trim Ring . . . . .	ZJ7	
Wheel Covers, Special . . . . .	P02	
Wheel Covers, Trim . . . . .	PA3	
Wheel Covers, Simulated Wire . . . . .		ACC
Wheel Covers, Simulated "Mag" . . . . .		ACC
Wheel, 15 x 7 JK . . . . .	PH1	
Windshield Antenna . . . . .	U76	
<b>FACTORY-INSTALLED REGULAR PRODUCTION TIRES</b>		
G78 x 15B Bias Belted Blackwall . . . . .	PU7	
G78 x 15B Bias Belted White Stripe . . . . .	PU8	
G70 x 15B Bias Belted Blackwall . . . . .	P93	
G70 x 15B Bias Belted White Stripe . . . . .	P90	

# AIR CONDITIONING

## 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. Five air outlets: 1 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.

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

### CHASSIS

Front and Rear Springs . . . . . Heavy duty  
Rear Axle Ratio - Refer to Power Trains Section

### 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

# BODY

EXTERIOR PAINT PROCESS . . . . .	2
EXTERIOR-INTERIOR COLORS . . . . .	3
BODY CONSTRUCTION AND GLASS AREA . . . . .	5

## 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

## MONTE CARLO 13800 SERIES

MODEL	Front Seat Type	INTERIOR TRIM COLORS AND CODE NUMBERS								
		Black		Dark Blue	Dark Green		Med. Pewter	Dark Saddle	Light Covert	
		Cloth	Vinyl	Cloth	Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl
57	Bench	706	708	725	715		740	735	731	734
	Bucket	706	708			717	740	735		

COLOR CODE	EXTERIOR COLOR								
11	Antique White	X	X	X	X	X	X	X	X
14	Pewter Silver	X		X	X	X			
24	Ascot Blue	X	X						
26	Mulsanne Blue	X	X						
36	Spring Green	X							
43	Gulf Green	X		X					X
48	Sequoia Green	X		X			X		X
50	Covert Tan	X		X			X		X
53	Placer Gold	X					X		X
56	Cream Yellow	X					X		X
57	Golden Brown	X							X
63	Mohave Gold	X					X		X
65	Orange Flame	X					X		
68	Midnight Bronze	X					X		X
75	Cranberry Red	X					X		

TWO-TONE										
COLOR CODE	LOWER	UPPER								
26-11	Mulsanne Blue	White	X	X						
43-11	Gulf Green	White	X		X				X	
48-11	Sequoia Green	White	X		X		X		X	
57-11	Golden Brown	White	X						X	
63-11	Mohave Gold	White	X				X		X	



# EXTERIOR-INTERIOR COLORS

## VINYL ROOF COLORS

COLOR CODE	EXTERIOR COLOR	VINYL ROOF COLORS				
		Black	White	Medium Green	Medium Tan	Light Covert
11	Antique White	X	X	X	X	X
14	Pewter Silver	X	X	X		
24	Ascot Blue	X	X			
26	Mulsanne Blue	X	X			
36	Spring Green	X	X	X		
43	Gulf Green	X	X	X		
48	Sequoia Green	X	X	X		X
50	Covert Tan	X	X			X
53	Placer Gold	X	X			X
56	Cream Yellow	X	X			X
57	Golden Brown	X	X			X
63	Mohave Gold	X	X		X	X
65	Orange Flame	X	X			X
68	Midnight Bronze	X	X		X	X
75	Cranberry Red	X	X			

# CHASSIS

FRAME AND FRONT SUSPENSION . . . . .	2-3
STEERING, DRIVELINE, WHEELS AND TIRES . . . . .	4
REAR AXLE AND SUSPENSION . . . . .	5
BRAKES . . . . .	6
BULBS AND LAMPS . . . . .	7
FUSES AND CIRCUIT BREAKERS . . . . .	8

# FRAME AND FRONT SUSPENSION

## FRAME

Description . . . . . All welded perimeter frame with front crossmember, rear axle upper control arm crossmember, and rear crossmember. Channel center sections. Rear axle kickup box welded construction. Rear of kickup: Channel section. Body Mounting: 8 biscuits +2 cushions

Wheel travel (design)  
 Total . . . . . 7.92  
 Jounce . . . . . 3.92  
 Rebound . . . . . 4.00  
 Wheel to spring, travel ratio . . . . . 1.86

## FRONT SUSPENSION

Description . . . . . Independent, SLA type with coil springs & concentric shock absorbers, and spherically jointed steering knuckles for each wheel.

## CONTROL ARMS

Description . . . . . Stamped 'A' frame with pre-loaded, steel encased rubber bushings at pivot.

## STEERING KNUCKLES

Description . . . . . Forged steel with detachable steering knuckle arm

Spindle diameters  
 Inner bearing . . . . . 1.2493-1.2498  
 Outer bearing . . . . . .7493-.7498  
 Spindle thread size . . . . . 3/4-20 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 . . . . . To be provided  
 Lower . . . . . One bearing; steel

## SHOCK ABSORBERS

Type . . . . . Direct, double-acting, hydraulic  
 Piston diameter . . . . . 1.00

## STABILIZER BAR

Type . . . . . Link  
 Material . . . . . HR steel  
 Diameter . . . . . 0.937

## FRONT WHEEL ALIGNMENT (Curb)

Camber (degrees) . . . . . 0 to P1-1/2  
 Caster (degrees) . . . . . N2 to 0  
 Toe (Total) . . . . . 1/16 to 5/16  
 Steering Axis Inclination  
 (degrees) . . . . . 7-3/4° to 8-3/4°

## 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.)
3952804	AI	143.75	.597	10.82	250	17.73	11.7 @ 1500
3952805	AJ	143.75	.597	10.82	250	18.01	11.7 @ 1570
3952806	AO	153.45	.610	11.52	250	18.29	11.7 @ 1640
3952812	GO	149.85	.621	11.22	275	17.87	11.7 @ 1690
3952813	GQ	149.85	.621	11.22	275	18.13	11.7 @ 1760
3983300	AK	170.88	.645	12.62	275	18.38	11.7 @ 1830
3983301	AL	170.91	.645	12.62	275	18.64	11.7 @ 1900

# STEERING, DRIVELINE, WHEELS AND TIRES

## POWER STEERING (Standard)

Description	Semi-reversible, recirculating ball nut gear. Integral power piston with vane-type pump driven by crankshaft pulley providing hydraulic pressure. Collapsible steering column for safety. Tilt steering wheel optional.
Ratios, Gear	16.0:1 on center to 13.0:1
Overall	18.5:1 on center to 12.4:1
Linkage	Parallelogram, front of wheels, 2 tie rods
Number of wheel turns, lock-to-lock	2.9
Turning Diameters (Ft), Outside Front	
Wall to wall	45.5
Curb to curb	42.0
Steering Wheel	
Type	Oval
Diameter	15.25 x 14.75

## DRIVELINE

Type	Tubular, exposed
Number Used	One
Diameter (O.D.)	3.25
Length (C/L of U joints)	55.52
Wall Thickness	0.065
Universal Joints	
Type	Cross
Number used	Two
Bearings	Pre-pack, anti-friction

## WHEELS, REGULAR PRODUCTION

Type	Short spoke spider
Size	15 x 6
Offset	0.85
Attachment to Hub	
Type	5 hex nuts
Thread size	7/16-20 UNF 2-B
Bolt circle diameter	4.75

## WHEELS, OPTIONAL

(Same as regular production except as follows)	
Custom Models (Z0 3)	
Size	15 x 7
Offset	0.30
Rally-Type (RPO ZJ7)	
Type	Short spoke spider with large ventilation slots
Size	15 x 7
Offset	0.30

## TIRES, REGULAR PRODUCTION

Construction	Bias belted
Load Range	B
Size	
G78 x 15 (except Custom option)	
Static loaded radius	12.9
Loaded rev/mi @ 45 mph	750
Capacity @ 24 psi	1380
G70 x 15 (Custom option)	
Static loaded radius	12.6
Loaded rev/mi @ 45 mph	760
Capacity @ 24 psi	1380



# BRAKES

## FRONT WHEEL POWER DISC BRAKES, REGULAR PRODUCTION

### Drum brakes at rear wheels

Type . . . . . Hub mounted front discs, with self-adjusting single piston caliper units mounted on the steering knuckle, a metering valve is provided for balance between front and rear brakes. Reverse self-adjusting feature.

### Braking ratios

Pedal . . . . .	3.44
Hydraulic . . . . .	28.31
Overall . . . . .	97.4
Total effective lining area, disc and drum . . . . .	102.9
Gross lining area, disc and drum . . . . .	118.1
Swept disc and drum area . . . . .	332.4

### Disc

Diameter . . . . .	11.0
Width . . . . .	1.00
Material . . . . .	Cast iron

### Drum

Diameter . . . . .	9.5
Construction . . . . .	Composite, web cast into rim.
Material	
Web . . . . .	HR Steel
Rim . . . . .	Cast iron alloy

### Disc Lining

Material . . . . .	Wet compression molded asbestos composition.
Size . . . . .	5.96 x 2.21 x .41
Method of attachment . . . . .	Riveted

### Drum Lining

Material . . . . .	Compression molded asbestos composition wet rolled; grooved primary linings.
Length	
Primary . . . . .	9.01
Secondary . . . . .	9.75
Width . . . . .	2.00
Thickness, minimum @ C/L . . . . .	.17
Master Cylinder	
Piston diameter . . . . .	1.125
Piston travel (with available pedal travel) . . . . .	1.41
Wheel Cylinders	
Front Calipers	
Number per wheel . . . . .	1
Diameter . . . . .	2.94
Rear Drums	
Diameter . . . . .	.875
Foot pedal travel . . . . .	4.84
Line pressure at 100 lb. pedal load . . . . .	1025

## PARKING BRAKE

Type . . . . .	Mechanical: Pull rods and cables operate two rear service brakes; parking brake "ON" warning lamp provided.
Total effective area . . . . .	66.6
Control . . . . .	Pendulum foot pedal; released by T handle located below instrument panel to left of steering column.

## BULBS AND LAMPS

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
● Automatic transmission position pattern	Instrument Panel 1-1445	2
● Back-up	Floor console 2-1445	2
Brake warning - Alarm	2-1156	32
Courtesy	1-194	2
Instrument panel	2-631	6
Seat separator	1-212	6
Directional signal indicators	2-194	2
Dome	1-211	12
Generator indicator	1-194	2
Glove compartment	1-1893	2
Headlamp	2-6014	High beam 60W Low beam 50W
Headlamp hi-beam indicator	1-194	2
Heater controls	1-1445	1
Instrument cluster	9-194	2
License plate, rear	1-67	4
Luggage compartment	1-1003	15
Oil pressure indicator	1-194	2
Parking		
Park		3
Turn	2-1157	32
Radio	1-1816	3
Side marker - Front	2-194	2
Side marker - Rear	2-194	2
Tail		
Tail		3
Stop and turn	4-1157	32
Temperature indicator	1-194	2
Underhood	1-93	15
● Seat belt warning	1-194	2



## 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. position pattern lamp	AGC 4 fuse	Fuse panel (c)
Back-up lamps	AGC 20 fuse	Fuse panel (d)
Cigarette lighter	AGC 25 fuse	Fuse panel (b)
Clock	AGC 25 fuse	Fuse panel (b)
Clock lamp (with tachometer option)	AGC 4 fuse	Fuse panel (c)
Courtesy lamps	AGC 25 fuse	Fuse panel (b)
Defogging unit	AGC 20 fuse	Fuse panel (d)
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)
Generator indicator lamp	AGC 10 fuse	Fuse panel (d)
Glove compartment lamp	AGC 25 fuse	Fuse panel (b)
Headlamps	CB	Light switch
Headlamps hi-beam indicator lamp	CB	Light switch
Heater	AGC 25 fuse	Fuse panel (g)
Heater controls lamp	AGC 4 fuse	Fuse panel (c)
Instrument cluster lamps	AGC 4 fuse	Fuse panel (c)
License plate lamp, rear	AGC 20 fuse	Fuse panel (b)
Luggage compartment lamp	AGC 20 fuse	Fuse panel (b)
Oil pressure indicator lamp	AGC 10 fuse	Fuse panel (d)
Brake indicator lamp	AGC 10 fuse	Fuse panel (d)
Parking lamps	20 amp fuse	Fuse panel
Power seats	30 amp CB	Firewall
Power windows	30 amp CB	Firewall
Radio and radio lamp	AGC 20 fuse	Fuse panel (e)
Side Marker lamp - Front	AGC 20 fuse	Fuse panel
Side Marker lamp - Rear	AGC 20 fuse	Fuse panel
Spot lamp — Portable	AGC 15 fuse	In line
Tachometer	AGC 10 fuse	Fuse panel (d)
Tail, stop and turn lamps	AGC 20 fuse	Fuse panel (b)
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

# 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 AND FOUR SPEED TRANSMISSIONS . . . . .	18
POWERGLIDE TRANSMISSION . . . . .	19
TURBO HYDRA-MATIC TRANSMISSION . . . . .	20

# POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	MODEL APPLICATION	AXLE RATIOS*		RING GEAR
			STAND.	TRAILER	
Turbo-Fire 350 350 Cubic Inch V-8 Standard	3-Speed (2.54:1 low)	Sport Coupe	3.08:1		8.125
	Powerglide		2.73:1		
	Turbo Hydra-matic		2.73:1		
				3.31:1	8.875
Turbo-Fire 350 350 Cubic Inch V-8 RPO L48	Turbo Hydra-matic	Sport Coupe	2.73:1	3.31:1	8.875
Turbo-Jet 400 402 Cubic Inch V-8 RPO LS3	Turbo Hydra-matic	Sport Coupe	2.73:1	3.31:1	8.875
Turbo-Jet 454 454 Cubic Inch V-8 RPO LS5	Turbo Hydra-matic	Sport Coupe	3.31:1		8.875

\*-Positraction axles available optionally for all ratios

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	
350 Cu. In. V-8 Standard	2-Barrel	3-Speed	7.82	4.62	3.08		8.10	3.08

### WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
350 Cu. In. V-8 Standard	Powerglide	Drive	11.40:1 - 3.08:1	3.08:1
		Low & Reverse	11.40:1 - 5.42:1	
	Turbo Hydra-Matic	Drive	14.44:1 - 2.73:1	2.73:1
		Low	14.44:1 - 6.88:1	
		Second	14.44:1 - 4.15:1	
350 Cu. In. V-8 RPO L48	Turbo Hydra-Matic	Reverse	11.06:1 - 5.27:1	2.73:1
		Drive	14.44:1 - 2.73:1	
		Low	14.44:1 - 6.88:1	
		Second	14.44:1 - 4.15:1	
402 Cu. In. V-8 RPO LS3	Turbo Hydra-Matic	Reverse	11.06:1 - 5.27:1	2.73:1
		Drive	14.22:1 - 2.73:1	
		Low	14.22:1 - 6.78:1	
		Second	14.22:1 - 4.04:1	
454 Cu. In. V-8 RPO LS5	Turbo Hydra-Matic	Reverse	11.93:1 - 5.56:1	3.31:1
		Drive	17.25:1 - 3.31:1	
		Low	17.25:1 - 8.21:1	
		Second	17.25:1 - 4.90:1	
		Reverse	14.46:1 - 6.88:1	

\* Axle ratio x transmission ratio.

# ENGINE DATA AND RATINGS

## GENERAL DATA

Engine Type	V-8 OHV			
Piston Displacement (Cu.In.)	350	402	454	
Availability	Standard	L48	LS3	LS5
Number of Cylinders	Eight			
Bore (nominal)	4.00	4.126	4.251	
Stroke (nominal)	3.48	3.76	4.00	
Compression Ratio	8.5:1			
Taxable (SAE) Horsepower	51.2	54.5	57.8	
Firing Order	1-8-4-3-6-5-7-2			
Idling Speed	3-Speed & 4-Speed (in neutral)	900		
	Powerglide (in drive)	600		
	Turbo Hydra-matic (in drive)	600		
Comp. Press. (PSI) @ Cranking Speed, Engine Hot	150	160		
Power Plant Mountings	Front	Two, combination compression and shear type		
	Rear	One, shear type		
Measurements	Fan to rear of engine block	30.69	30.16	33.97
	Top of air cleaner to bottom of oil pan	29.29	26.79	27.62
	Width - including air cleaner	27.34	27.97	30.00

## ADVERTISED ENGINE RATING

Engine Designation	Turbo-Fire 350 V-8	Turbo-Fire 350 V-8	Turbo-Jet 400 V-8	Turbo-Jet 454 V-8
Availability	Standard	RPO L48	RPO LS3	RPO LS5
Carburetor	Two Barrel	Four Barrel	Four Barrel	Four Barrel
Net Brake HP @ RPM	165 @ 4000	175 @ 4000	240 @ 4400	270 @ 4000
Net Torque @ RPM (lb-ft)	280 @ 2400	280 @ 2400	345 @ 3200	390 @ 3200

# ENGINE SPEED AND PISTON TRAVEL

## TURBO-FIRE 350 V-8 ENGINE

Transmission	3-Speed	Powerglide	Turbo Hydra-Matic
Rear Axle Ratio	3.08:1		2.73:1
Tire Size	G78 x 15B		
Crankshaft Revolutions per Mile	2310.0		2047.5
Crankshaft RPM @ 1 MPH	Low	97.8	67.8
	Second	57.7	51.9
	Third	38.5	38.5 (direct)
	Reverse	101.3	67.8
Piston Travel (ft/mile)	1339.8		1187.6

## TURBO-FIRE 350 V-8 ENGINE (RPO L48)

Transmission	Turbo Hydra-Matic	
Rear Axle Ratio	2.73:1	
Tire Size	G78 x 15B	
Crankshaft Revolutions per Mile	2047.5	
Crankshaft RPM @ 1 MPH	Low	86.0
	Second	51.9
	Third	34.1 (direct)
	Reverse	65.9
Piston Travel (ft/mile)	1187.6	

## TURBO-JET 400 V-8 (402 CU.IN.) ENGINE (RPO LS3)

Transmission	Turbo Hydra-Matic	
Rear Axle Ratio	2.73:1	
Tire Size	G78 x 15B	
Crankshaft Revolutions per Mile	2047.5	
Crankshaft RPM @ 1 MPH	Low	84.6
	Second	50.5
	Third	34.1 (direct)
	Reverse	89.7
Piston Travel (ft/mile)	1283.1	

## TURBO-JET 454 V-8 ENGINE (RPO LS5)

Transmission	Turbo Hydra-Matic	
Rear Axle Ratio	3.31:1	
Tire Size	G78 x 15B	
Crankshaft Revolutions per Mile	2482.5	
Crankshaft RPM @ 1 MPH	Low	102.6
	Second	61.2
	Third	41.4 (direct)
	Reverse	108.8
Piston Travel (ft/mile)	1655.0	

# VEHICLE PERFORMANCE FACTORS

ENGINE	BASE 350 CU.IN. 165 HP	RPO L48 350 CU.IN. 175 HP	RPO LS3 402 CU.IN. 240 HP	RPO LS5 454 CU.IN. 270 HP
MODEL	13857	13857	13857	13857

## 3-SPEED TRANSMISSION

Performance Weight (pounds)	4203			
Pounds per Net Horsepower	25.47			
Pounds per Cu.In. Displacement	12.01			
Net HP per Cu.In. Displacement	.471			
Power Displacement (cu.ft./mile)	233.94			
Displacement Factor (cu.ft./ton mile)	111.40			

## TURBO HYDRA-MATIC

Performance Weight (pounds)	4232	4240	4420	4435
Pounds per Net Horsepower	25.65	24.18	18.62	16.43
Pounds per Cu.In. Displacement	12.09	12.09	11.12	9.77
Net HP per Cu.In. Displacement	.471	.500	.597	.595
Power Displacement (cu.ft./mile)	207.36	207.36	238.16	326.11
Displacement Factor (cu.ft./ton mile)	96.00	97.81	106.79	147.56

## POWERGLIDE

Performance Weight (pounds)	4213			
Pounds per Net Horsepower	25.53			
Pounds per Cu.In. Displacement	12.04			
Net HP per Cu.In. Displacement	.471			
Power Displacement (cu.ft./mile)	233.94			
Displacement Factor (cu.ft./ton mile)	110.87			

## 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	
V8-350 Cu.In.	3.9995-4.0025
V8-402 Cu.In.	4.1246-4.1274
V8-454 Cu.In.	4.2496-4.2524
No. of Bulkheads	5
Water Jacket	Full length around each cylinder
Bearing Caps (Number, material and attachment)	
V8-350 Cu.In.	5, cast iron; 2-bolt
V8-402 Cu.In.	5, cast iron; 2-bolt
V8-454 Cu.In.	5, cast iron; 4-bolt
Bore Spacing (Centerline to Centerline)	
V8-350 Cu.In.	4.4
V8-402 Cu.In.	4.84
V8-454 Cu.In.	4.84

## CYLINDER HEAD

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

## COMBUSTION CHAMBER VOLUME

(Total chamber volume of assembled engine with piston at top center)

V8-350 Cu.In.	6.08 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	8 port, double deck

## EXHAUST MANIFOLD

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

## CRANKSHAFT

Material	
V8-350 Cu.In.	Cast nodular iron
V8-402 Cu.In.	Cast nodular iron
V8-454 Cu.In.	Forged steel
End Play	
V8-350 Cu.In.	.002-.006
V8-402 Cu.In.	.006-.010
V8-454 Cu.In.	.006-.010
Counter Weights	
V8	6
Crank Arm Length	
V8-350 Cu.In.	1.74
V8-402 Cu.In.	1.88
V8-454 Cu.In.	2.00
Torsional Damper	Rubber mounted inertia
Timing Gear	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. 5
Clearance	
V8-350 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

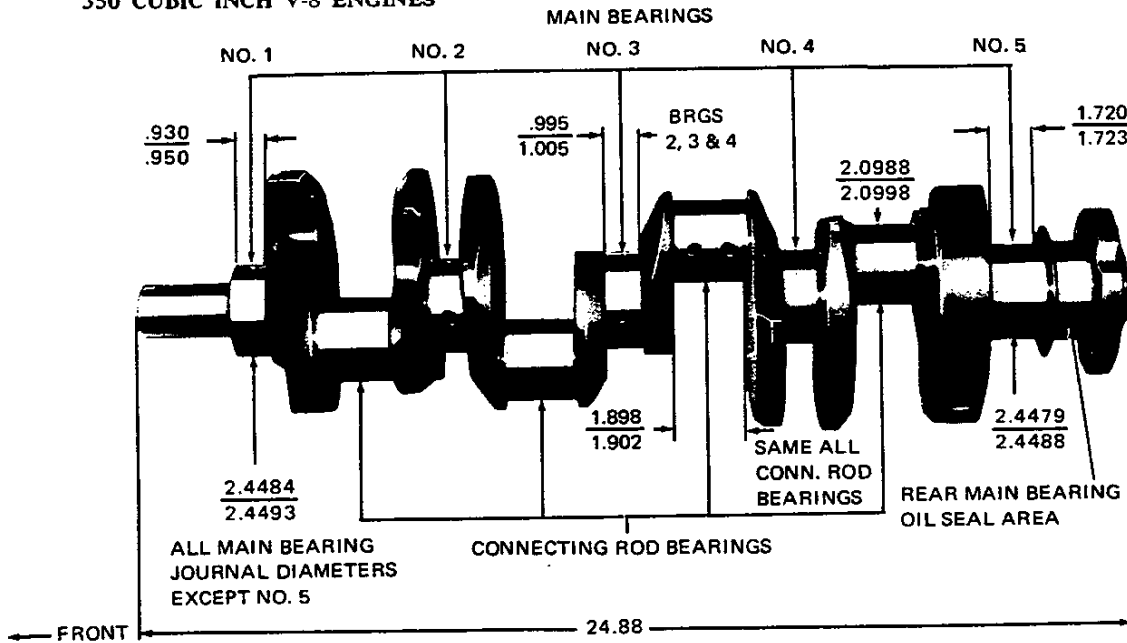
Dimensions	Theoretical		
	Inner Dia.	Effective Length	Projected Area
<b>V8-350 Cu.In.</b>			
Bearing No. 1-4	2.4502	.752	1.8425
Bearing No. 5	2.4508	1.177	2.8846
<b>V8-402 Cu.In.</b>			
Bearing No. 1-4	2.7504	.962	2.6459
Bearing No. 5	2.7505	1.256	3.4546
<b>V8-454 Cu.In.</b>			
Bearing No. 1	2.7492	.992	2.727
Bearing No. 2-4	2.7504	.992	2.728
Bearing No. 5	2.7499	1.256	3.453



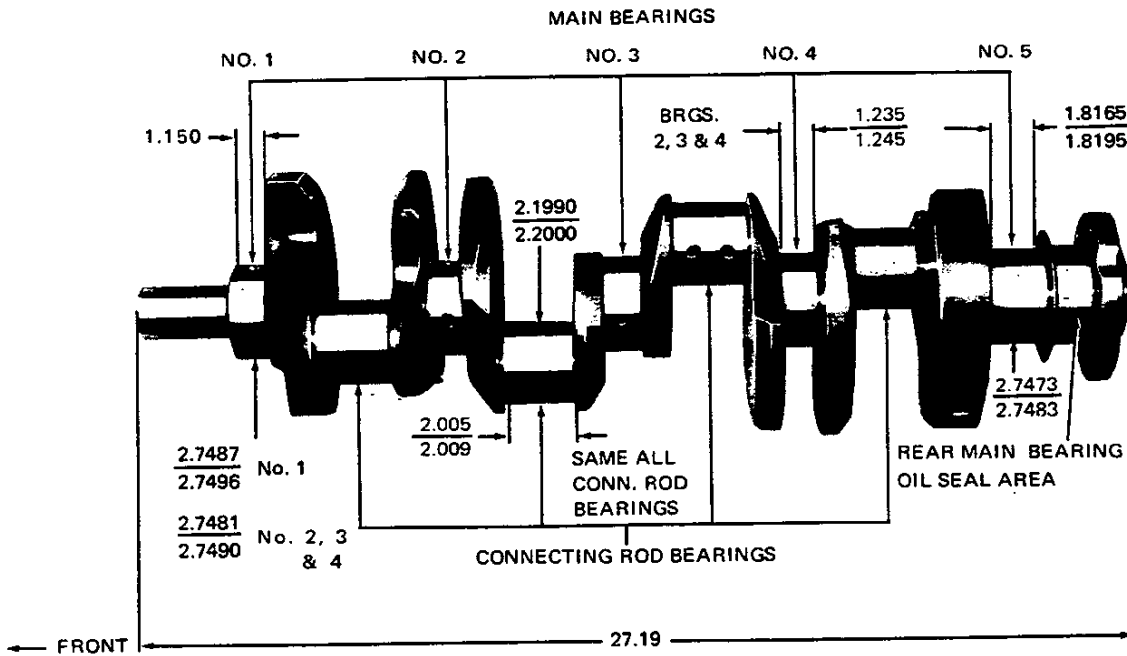
# PRINCIPAL COMPONENTS

## CRANKSHAFTS AND BEARINGS

### 350 CUBIC INCH V-8 ENGINES



### 402 CUBIC INCH V-8 ENGINE



# PRINCIPAL COMPONENTS

## CAMSHAFT

Material	Cast alloy iron
Drive	Sprocket & chain; steel
Lobe Lift	
V8-350 Cu.In.	.2600 Inlet; .2733 Exhaust
V8-350 Cu.In. (California)	.2671 Inlet; .2315 Exhaust
V8-402 Cu.In.	.2343 Inlet; .2529 Exhaust
V8-454 Cu.In.	.2714 Inlet; .2824 Exhaust
Bearings	Steel backed babbit

## VALVE TRAIN

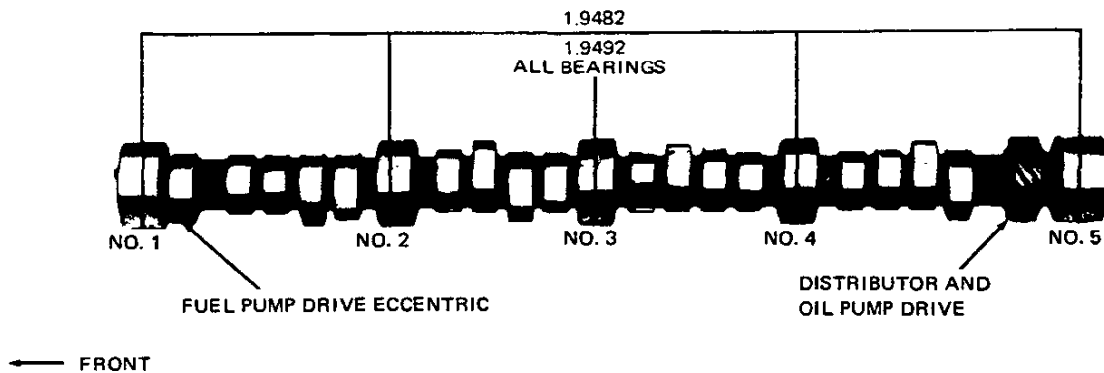
Type	Individually mounted, overhead rocker arms, push rod actuated
Lifters	Hydraulic
Push Rods	
Type	Hollow steel
Ends	
V8-350 Cu.In.	Hardened
V8-402 & 454 Cu.In.	Hardened steel inserts
Rocker Arms	
Material	Stamped steel
Ratio	
V8-350 Cu.In.	1.50:1
V8-402 & 454 Cu.In.	1.70:1
Rotators (V8-350 & 402)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

## VALVE SPRINGS

Diameter (I.D.)	
V8-350 Cu.In.	.868-.884
V8-402 (LS3) Cu.In.	1.080-1.094
V8-454 Cu.In.	1.080-1.094
Installed Length (lb. @ In.)	
Valves Closed	
V8-350 Cu.In.	76-84 @ 1.70
V8-402 Cu.In.	84-96 @ 1.88
V8-454 Cu.In.	
-Outer spring	69-81 @ 1.88
-Inner spring	26-34 @ 1.78
Valves Opened	
V8-350 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	
V8-350 & 402 Cu.In.	2.03
V8-454 Cu.In.	
-Outer spring	2.12
-Inner spring	2.06
Valve Spring Damper	
V8-350 Cu.In.	Flat steel, 4 coils
V8-402 Cu.In.	Flat steel, 3.62 coils

## CAMSHAFT AND BEARINGS

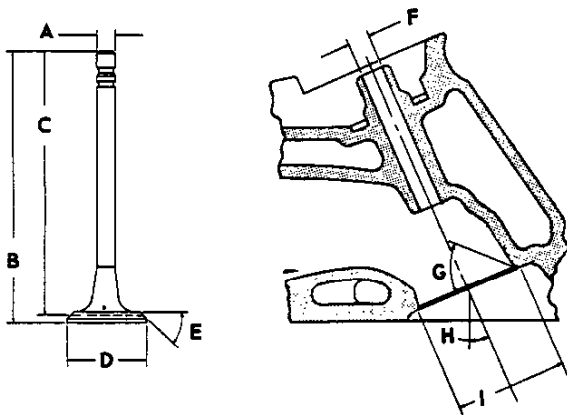
V8-402 and 454 V-8 ENGINES



# PRINCIPAL COMPONENTS

## VALVES - INLET

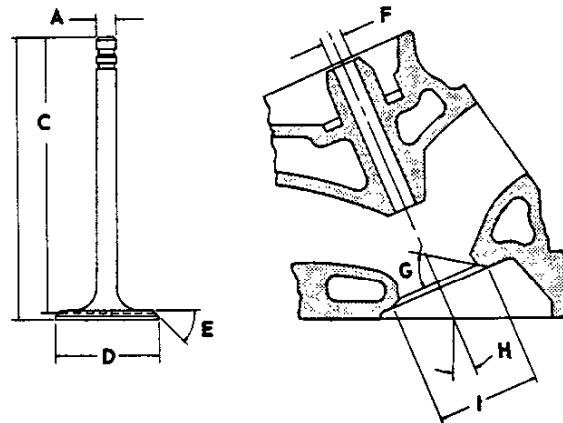
Material	Alloy steel
Coating	
V8-350 Cu.In.	None
V8-402 & 454 Cu.In.	Face & head aluminized
Valve Guide Inserts (454 Cu.In.)	Cast alloy iron



A - Stem Diameter	
V8-350 Cu.In.	.3410-.3417
V8-402 & 454 Cu.In.	.3715-.3722
B - Overall Length	
V8-350 Cu.In.	4.870-4.889
V8-402 & 454 Cu.In.	5.215-5.235
C - Gage Length	
V8-350 Cu.In.	4.785-4.795
V8-402 & 454 Cu.In.	5.115-5.125
D - Overall Head Diameter	
V8-350 Cu.In.	1.935-1.945
V8-402 Cu.In.	2.060-2.070
V8-454 Cu.In.	2.060-2.070
E - Angle of Face	45°
F - Guide Diameter	
V8-350 Cu.In.	.3427-.3437
V8-402 & 454 Cu.In.	.3732-.3742
G - Angle of Seat	46°
H - Valve Angle	
V8-350 Cu.In.	23°
V8-402 & 454 Cu.In.	4°
I - Valve Seat (Cutter) Diameter	
V8-350 Cu.In.	1.990-2.010
V8-402 & 454 Cu.In.	2.150

## VALVES - EXHAUST

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



A - Stem Diameter	
V8-350 Cu.In.	.3410-.3417
V8-402 & 454 Cu.In.	.3415-.3720
B - Overall Length	
V8-350 Cu.In.	4.913-4.933
V8-402 & 454 Cu.In.	5.345-5.365
C - Gage Length	
V8-350 Cu.In.	4.781-4.791
V8-402 & 454 Cu.In.	5.235-5.245
D - Overall Head Diameter	
V8-350 Cu.In.	1.495-1.505
V8-402 Cu.In.	1.715-1.725
V8-454 Cu.In.	1.715-1.725
E - Angle of Face	45°
F - Guide Diameter	
V8-350 Cu.In.	.3427-.3437
V8-402 & 454 Cu.In.	.3732-.3742
G - Angle of seat	46°
H - Valve Angle	
V8-350 Cu.In.	23°
V8-402 & 454 Cu.In.	4°
I - Valve Seat (Cutter) Diameter	
V8-350 Cu.In.	1.550-1.570
V8-402 & 454 Cu.In.	1.625

# PRINCIPAL COMPONENTS

## VALVE TIMING (Crankshaft degrees)

V8-350 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	28°
Closes - ABC	78°
Duration	286°
Exhaust Valve (Zero lash)	
Opens - BBC	75°
Close - ATC	31°
Duration	286°

V8-454 Cu.In. (LS5)	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

V8-350 Cu.In. . . . .	.3900 Inlet, .4100 Exhaust
V8-350 Cu.In. (California) . . . . .	.4006 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	
V8-350 Cu.In. . . . .	Sump head
V8-402 Cu.In. . . . .	Domed head, valve cutout
V8-454 Cu.In. . . . .	Flathead, valve cutout
Skirt Type . . . . .	Slipper
Top Land Clearance	
V8-350 Cu.In. . . . .	.0235-.0325
V8-402 Cu.In. . . . .	.0310-.0370
V8-454 Cu.In. . . . .	.0350-.0410
Skirt Clearance	
V8-350 Cu.In. . . . .	.0007-.0017
V8-402 Cu.In. . . . .	.0018-.0028
V8-454 Cu.In. . . . .	.0024-.0034
Compression Ring Groove Depth	
V8-350 Cu.In. . . . .	.2218-.2884
V8-402 Cu.In. . . . .	.2328-.2393
V8-454 Cu.In. . . . .	.2348-.2412
Oil Ring Groove Depth	
V8-350 Cu.In. . . . .	.2038-.2103
V8-402 Cu.In. . . . .	.2183-.2248
V8-454 Cu.In. . . . .	.2183-.2247
Pin Bore Offset . . . . .	.055-.065
Compression Height	
V8-350 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	
V8-350 Cu.In. . . . .	2.990-2.010
V8-402 & 454 Cu.In. . . . .	2.930-2.950
Diameter	
V8-350 Cu.In. . . . .	.9270-.9273
V8-402 & 454 Cu.In. . . . .	.9895-.9898
Clearance in Piston	
V8-350 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	
V8-350 Cu.In.	Chrome plate
V8-402 & 454 Cu.In.	Molybdenum inlay
Width	
V8-350 Cu.In.	.0775-.0780
V8-402 Cu.In.	.0770-.0780
V8-454 Cu.In.	.0770-.0775
Wall Thickness	
V8-350 Cu.In.	.190-.200
V8-402 Cu.In.	.196-.206
V8-454 Cu.In.	.202-.212
Gap	
V8-350 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 V8-350, and 402; and 28°-52° for V8-454)
Face	Tapered
Coating	
V8-402 Cu.In.	Chrome plated
V8-350 & 454 Cu.In.	Wear resistant
Width	
V8-350 Cu.In.	.0770-.0775
V8-402 Cu.In.	.0770-.0780
V8-454 Cu.In.	.0770-.0775
Wall Thickness	
V8-350 Cu.In.	.190-.200
V8-402 Cu.In.	.196-.206
V8-454 Cu.In.	.202-.212
Gap	
V8-350 Cu.In.	.013-.025
V8-402 & 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	
V8-350 Cu.In.	.150-.156
V8-402 Cu.In.	.137-.143
V8-454 Cu.In.	.137-.143
Gap	
V8-350 Cu.In.	.015-.055
V8-402 & 454 Cu.In.	.010-.030
Rail Coatings	Chrome plated

## CONNECTING RODS

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

## CONNECTING ROD BEARINGS

Material	
V8-350 Cu.In.	Premium aluminum
V8-402 & 454 Cu.In.	Premium aluminum
Type	Precision removable
Clearance	
V8-350 Cu.In.	.0013-.0035
V8-402 & 454 Cu.In.	.0009-.0025
Theoretical I.D.	
V8-350 Cu.In.	2.1019
V8-402 & 454 Cu.In.	2.2012
Effective Length	
V8-350 Cu.In.	.797
V8-402 & 454 Cu.In.	.847
End Play	
V8-350 Cu.In.	.008-.014
V8-402 & 454 Cu.In.	.015-.023

## FUEL TANK

Capacity	19 (approximately)
Fuel Tank Location	Behind rear axle
Filler Location	Behind hinged rear license plate

## 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)	
V8-350 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	
V8-350 & 402 Cu.In.	15.48
V8-454 Cu.In.	15.48
Filter Element	Oil-wetted paper

## EVAPORATION CONTROL SYSTEM

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

### Make and Type

V8-350 Cu.In.	
Base	Rochester, 2-barrel, downdraft
(L48)	Rochester, 4-barrel, Quadrajets
V8-402 Cu.In.	Rochester, 4-barrel, Quadrajets
V8-454 Cu.In.	Rochester, 4-barrel, Quadrajets

### SAE Flange Size

●V8-350 Cu.In. (base)	1.50
V8-350 (L48) Cu.In.	1.50
V8-402 & 454 Cu.In.	1.50

### Throttle Bore

V8-350 Cu.In. (base)	1.69
V8-350 Cu.In. (L48)	

Primary	1.38
Secondary	2.25

V8-402 & 454 Cu.In.	
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Primary	1.38
Secondary	2.25

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

V8-350 Cu.In. (base)	1.25
V8-350 Cu.In. (L48)	

Primary	1.04
Secondary	.625

V8-402 & 454 Cu.In.	
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Primary	1.04
Secondary	.625

## CHOKE

Type	Automatic
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# EXHAUST AND VENTILATION SYSTEM

## TYPE

V8-350 Cu.In. . . . . Single with crossover pipes  
 V8-402 Cu.In. . . . . Dual with resonators  
 V8-454 Cu.In. . . . . Dual with resonators

## MUFFLERS

Type . . . . . Oval, reverse flow  
 Construction . . . . . Heads and body joined  
 by rolled lock seam construction

### Head

V8-350 Cu.In. . . . . .055 sheet steel, aluminized  
 V8-402 & 454 Cu.In.  
 Left hand . . . . . .054 sheet steel, aluminized  
 Right hand . . . . . .060 stainless steel

### Shell

V8-350 Cu.In. . . . . .036 sheet steel, zinc coated  
 V8-402 & 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

V8-350 Cu.In. . . . . No. 1 & 4-.048 zinc coated steel  
 No. 2 & 3-.036 zinc coated steel

V8-402 & 454 Cu.In.

(left) . . . . . No. 1 & 4-.048 zinc coated steel

No. 2 & 3-.036 zinc coated steel

(right) . . . . . No. 1 & 4-.036 stainless steel

Length, Body . . . . . 21.25

Width (I.D.) . . . . . 9.25

Height (I.D.) . . . . . 5.00

## EXHAUST CROSSOVER PIPE

Dimensions (O.D.) . . . . . 2.00

V8-350 Cu.In. . . . . Wall Thickness

V8-350 Cu.In. . . . . .072-.92 laminated

## EXHAUST PIPE

Dimensions (O.D.) . . . . . 2.50

Wall Thickness . . . . . .072-.092 laminated

## PIPE MUFFLER TO RESONATOR

V8-402 & 454 Cu.In.  
 Diameter . . . . . 2.00  
 Wall Thickness . . . . . .062-.076

## RESONATORS (V8-402 & 454 Cu.In.)

Type . . . . . Straight through  
 Cover . . . . . .035 stainless steel  
 Heads . . . . . .047 stainless steel

## TAIL PIPES

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

## EXHAUST EMISSION CONTROLS

Engine Ventilation . . . . . Closed positive 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 and 454 Cu.In. and also on V8-350 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 . . . . . Pressure, jet cross sprayed  
Camshaft Bearings . . . . . Pressure  
Valve Lifters . . . . . Pressure  
Rocker Arms . . . . . Pressure  
Timing Gears . . . . . 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  
V8-350 Cu.In. . . . . Rearward of left rocker cover  
V8-402 & 454 Cu.In. . . . . 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° F . . . . . 5W, 5W-20, 5W-30

## OIL PUMP

Type . . . . . Gear  
Regulator Valve . . . . . Opens between 40-45 lbs  
Oil Pressure (bench test, no flow conditions)  
V8-350 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)  
V8-350 Cu.In. . . . . 4.3 @ 2000  
V8-402 & 454 Cu.In. . . . . 6.0 @ 2000

## OIL FILTER

Type . . . . . Full flow, throwaway canister  
Location . . . . . 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 . . . . . 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

V8-350 Cu.In. . . . . Left side, rear of engine block  
V8-402 & 454 Cu.In. . . . . Right side, center direct to oil pan



# COOLING SYSTEM

## GENERAL

Type	Liquid, pressurized
Capacity with Heater (Standard Equipment)	
V8-350 Cu.In.	16 Qts.
V8-402 Cu.In.	24 Qts.
V8-454 Cu.In.	23 Qts.

## RADIATOR

Make and Type	Harrison, tube and center
Core Constant	
Distance between Fins	
V8-350 (Base) Cu.In.	.16 (Syn) .22 (Auto)
V8-350 (L48) Cu.In.	.22 (Auto)
V8-402 Cu.In.	.16 (Auto)
V8-454 Cu.In.	.22 (Auto)
Distance between Tubes	.55
Thickness of core	
V8-350 & 402 Cu.In.	1.26
V8-454 Cu.In.	1.98
Frontal Area (Sq.In.)	
V8-350 Cu.In.	353 (Syn) 480 (Auto)
V8-402 & 454 Cu.In.	480

## RADIATOR, HEAVY DUTY (RPO V01)

Core Constant	
Distance between Fins	
V8-350 Cu.In.	.22 (Syn) .16 (Auto)
V8-402 Cu.In.	.16 (Auto)
V8-454 Cu.In.	.16 (Auto)
Distance between Tubes	.55
Thickness of core	
V8-350 Cu.In.	1.98 (Syn) 1.26 (Auto)
V8-402 Cu.In.	1.98
V8-454 Cu.In.	2.70
Frontal Area (Sq.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	
V8-350 & 402 Cu.In.	4
V8-454 Cu.In.	5
Diameter	
V8-350 Cu.In.	17.62
V8-402 & 454 Cu.In.	18.00

## BELTS, CRANKSHAFT, FAN AND GENERATOR

Number Used	One
Angle of "V"	38°-42°
Pitch Line	
V8-350 Cu.In.	44.25
V8-402 & 454 Cu.In.	45.75
Width	.380

## WATER PUMP

Type	Centrifugal
Capacity	
V8-350 Cu.In.	24 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	
V8-350 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	
V8-350 & 402 Cu.In.	2900 watts
V8-454 Cu.In.	3750 watts
Heavy Duty (RPO T60)	3750 watts
Capacity (SAE) @ 20 hr. rate	
V8-350 & 402 Cu.In.	61 amp. hr.
V8-454 Cu.In.	80 amp. hr.
Heavy Duty	80 amp. hr.
Total Number of Plates	
V8-350 & 402 Cu.In.	66
V8-454 Cu.In.	90
Heavy Duty (RPO T60)	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 degrees F
Field Relay (Combination Light and Field Relay)	
Closing Voltage	1-3 volts @ 80 degrees F
Location	Engine compartment; left side front

### IGNITION SYSTEM

DISTRIBUTORS . . . . . Refer to chart below

### COIL

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

### SPARK PLUGS

Type	
V8-350 (Base)	ACR44T
V8-350 (L48)	ACR44T
V8-402 & 454 Cu.In.	ACR44T
Thread Size (mm)	14
Gap	.038-.038
Torque	25 lb. ft.

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

### STARTING SYSTEM

#### STARTING MOTOR

Rotation (Drive End View)	Clockwise
Test Conditions	Engine at operating temp.
No Load Test	
Amps	
V8-350 Cu.In.	70-99
V8-400 & 454 Cu.In.	70-99
Volts	10.6
RPM	
V8-350 Cu.In.	7800-12000
V8-402 & 454 Cu.In.	7800-12000
Motor Drive	
Engagement	Solenoid
Pinion Tooth No.	9
Flywheel Tooth No.	
V8-350 Cu.In.	153
V8-400 & 454 Cu.In.	168
Mounting	Bolted to cylinder block flange

DISTRIBUTORS	Transmission	350 Cu.In.		402 Cu.In.	454 Cu.In.
		Standard	RPO L48	RPO LS3	RPO LS5
Model	Manual	1112042			
	Automatic	1112005	1112045	1112057	1112052
Type		Single breaker			
Cam angle		29°-31°			28°-30°
Breaker gap		.019 (new)			
Breaker arm tension		19 - 23 oz.			28 - 32 oz.
Centrifugal advance	Manual	1120			
Begins @ RPM	Automatic	1000	1335	1260	1143
Maximum degrees @ RPM	Manual	28 @ 4300			
	Automatic	24 @ 4300	18 @ 4200	30 @ 4400	22 @ 3900
Vacuum advance	Manual	8.00			
begins @ In. Hg.	Automatic	7.00	8.00	8.00	
Maximum degrees @ In. Hg.	Manual	20 @ 17			
	Automatic	24 @ 15	15 @ 15.5	20 @ 17	
Timing (initial design setting) Crankshaft degrees @ RPM with vacuum line disconnected	Manual	2° BTC @ 600			
	Automatic	6° BTC @ 600	8° BTC @ 600	8° BTC @ 600	
Timing mark location		Torsional damper			

# CLUTCHES AND TRANSMISSIONS

## CLUTCHES

Engine	Type - Cubic Inch	V8-350	
	Availability	Standard	
Clutch for		3-Speed	
Type		Single dry disc, semi-centrifugal	
Clutch cover & pressure plate	Eff. plate load, lbs.	2100-2300	
	Press. plate matl.	Nodular Iron	
	Clutch spring type	Diaphragm bent finger design	
	Clutch spring matl.	Heat treated spring steel	
Driven plate	Type	Single disc with two friction surfaces	
	Cushions	Flat spring steel between friction rings	
	Damper	10 Coil springs (5 sets of two)	
	Friction ring	OD	10.34
		ID	6.50
Total area Sq. In.		101.54	
	Material	Premium grade woven asbestos	
Flywheel & Ring gear	Flywheel	Material	Cast Iron
		Material	Nodular Iron
	Ring gear	No. of teeth	168
		PD	14.00
	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

Transmission Type		3-Speed	
Engine	Type	V8-350	
	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	2.54
		Second	1.50
		Third	1.00
Reverse		2.63	
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	

# TRANSMISSIONS

## POWERGLIDE TRANSMISSION -

Engine	Type	V8-350 Cu. In.		
	Availability	Standard engine only		
General data	Type	Automatic hydraulic torque converter with planetary gear system for low and reverse		
	Selector lever	Location	Steering column (a)	
		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 (b)	Drive	51	
		Low	121	
		Reverse	93	
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)	1810		
	Diameter (nominal)	11.75		
Planetary gear set	Type	Compound planetary		
	Range	Drive	1.76 to 1.00	
		Low	1.76	
		Reverse	1.76	
	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	4	
	Driven plates	Description	Flat steel	
Number		5		
Reverse clutch	Type	Multi-disc		
	Drive plates	Description	Flat steel with bonded organic facings	
		Number	5	
	Reaction plates	Description	Flat steel	
Number		5		
Torque multiplication	Maximum overall ratio	3.70		
	Low and reverse	3.70 to 1.76		
Lubricant	Type	A suffix A		
	Capacity (pts)	Dry	19	
		Refill	6.5	
Governor	Type	Centrifugal		
	Operation	Regulates pump oil pressure to automatic shift control valve		
	Drive	Mounted on output shaft		
Oil pump	Location	In extension		
	Type	Internal-external gear		
	Number	One; front		
	Function	To supply pressure		
	Drive	Converter pump		

(a) Floor mounted available when bucket seats are used.

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

# TRANSMISSIONS

## TURBO HYDRA-MATIC TRANSMISSIONS

Engine	Displacement	V8-350	V8-402 & V8-454	
General	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	
	Lock	Operation	Applied by selector lever through manual linkage	
		Method of cooling	Water	
Hydraulic System	Flywheel assembly	Steel stamping with welded on ring gear		
	Oil pressure pump	Supplies hydraulic pressure from an engine driven gear type pump		
	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		
	Type	Four, multiple disk	Three, multiple disk	
Clutches	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) Floor mounted when console is used quadrant changes to P - R - N - 3 - 2 - 1.

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

# 1972 AMA SPECIFICATIONS FORM ... Passenger Car

**MANUFACTURER**

Chevrolet Motor Division  
General Motors Corporation

**CAR NAME**

MONTE CARLO

**MAILING ADDRESS**

FILE COPY ONLY

**MODEL YEAR**

1972

**ISSUED:**

September 1971

REVISED (e)

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# AMA Specifications Form—Passenger Car

## TABLE OF CONTENTS

BODY MODEL .....	1
CAR AND BODY DIMENSIONS .....	2, 3
POWER TEAMS .....	4
ENGINE .....	5-9
EXHAUST SYSTEM .....	9
FUEL SYSTEM .....	10
COOLING SYSTEM .....	11
VEHICLE EMISSION CONTROL .....	12
ELECTRICAL .....	13-15
DRIVE UNITS .....	16-18
TIRES AND WHEELS .....	19
BRAKES .....	19-20
STEERING .....	21
SUSPENSION – FRONT AND REAR .....	22
FRAME .....	23
BODY – MISCELLANEOUS INFORMATION .....	23
CONVENIENCE EQUIPMENT .....	24
LAMP HEIGHT AND SPACING .....	24
VEHICLE WEIGHTS .....	25
OPTIONAL EQUIPMENT WEIGHTS .....	26
CAR AND BODY DIMENSION KEY SHEETS .....	27, 28, 29
INDEX .....	30

### NOTES:

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

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

BODY MODEL	Body Series, Type and Number. (Use mfg'r's. code for identification)	Number of Passengers (Indicate Front/Rear)	
		Front	Rear
		V-8 Engine	
		<u>Model</u>	
<u>MONTE CARLO</u>			
2-Door Sport Coupe	13857	2	3

NOTE: ANY SPECIFICATIONS ON THE FOLLOWING PAGES THAT ARE SPECIFIC TO CALIFORNIA ARE INDICATED ACCORDINGLY.



MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (e)

**CAR AND BODY DIMENSIONS**

— See Pages 27, 28 for SAE Dimension Definitions

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

MODEL	SAE Ref. No.	Sport Coupe
<b>WIDTH</b>		
Track - Front	W101	60.2
Track - Rear	W102	59.3
Maximum overall car width	W103	75.6
Body width at No. 2 pillar	W117	-
Max. front doors open	W120	150.0
Max. rear doors open	W121	-
<b>LENGTH</b>		
Body "O" to front of dash	L 30	0.0
Wheelbase	L101	116.0
Overall car length	L103	206.5
Overhang - front	L104	41.7
Overhang - rear	L105	48.8
Body upper structure length	L123	93.4
Body "O" line to $\text{€}$ of rear wheel	L127	95.5
Body "O" line to w/s cowl point	L130	10.4
<b>HEIGHT</b>		
Passenger Distribution (front & rear)		2-3
Trunk/Cargo load (lbs.)		200
Overall height	H101	52.9
Cowl height	H114	37.8
Deck height	H138	
Rocker panel - front	To ground	8.3
	From front wheel $\text{€}$	
Bottom of front door to ground	H133	10.2
Rocker panel - rear	To ground	7.5
	From rear wheel $\text{€}$	
Bottom of rear door to ground	H135	-
Windshield slope angle	H122	53.0
<b>GROUND CLEARANCE</b>		
Bumper to ground - front	H102	13.6
Bumper to ground - rear	H104	12.8
Angle of approach	H106	25.9
Angle of departure	H107	20.8
Ramp breakover angle	H147	13.7
Rear axle differential to ground	H153	7.8
Min. running clearance (Specify)	H156	4.7

# AMA Specifications Form—Passenger Car Page 3

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED <sup>(\*)</sup>

## CAR AND BODY DIMENSIONS

See Pages 27, 29 for SAE Dimension Definitions

<b>MODEL</b>	<b>SAE Ref. No.</b>	Sport Coupe
--------------	---------------------	-------------

### FRONT COMPARTMENT

H Point to body "O" line	L31	43.2
Effective head room	H61	37.6
Max. eff. leg room — accelerator	L34	42.8
H Point to Heel point	H30	8.1
H Point travel	L17	4.8
Shoulder room	W 3	58.0
Hip room	W 5	59.4
Upper body opening to ground	H50	48.2

### REAR COMPARTMENT

H Point couple distance	L50	30.6
Effective head room	H63	36.3
Min. effective leg room	L51	32.3
H Point to Heel point	H31	10.1
Min. knee room	L48	0.7
Rear Compartment room	L 3	23.7
Shoulder room	W 4	56.6
Hip room	W 6	53.0
Upper body opening to ground	H51	NA

### LUGGAGE COMPARTMENT

Usable luggage capacity (cu. ft.)	V 1	12.9
Liftover height	H195	25.7
Position of spare tire storage		Horizontal; right side of trunk.
Method of holding lid open		Boxed hinges with torsion rod.

### STATION WAGON — THIRD SEAT

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

### STATION WAGON — CARGO SPACE

Cargo length at floor — front seat	L202	
Cargo length at belt — front seat	L204	
Cargo width — Wheelhouse	W201	
Opening width at belt	W204	
Maximum cargo height	H201	
Rear opening height	H202	
Cargo volume index (cu. ft.) W4 x L204 x H201 1928	V2	

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (e)

## POWER TEAMS

(Indicate whether standard or optional)

Gross bhp (brake horsepower) and gross torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

MODEL AVAILABILITY	ENGINE							TRANSMISSION	AXLE RATIO** (Std. first) (Indicate A/C ratio)#	
	Displ. cu. in.	Carb.	Compr. Ratio	Gross @ RPM		Net @ RPM			A	B
				BHP	Torque	BHP	Torque			
2-Door Sport Coupe	Turbo Fire 350V8 (base)	One; 2-bbl	8.5:1			165 @ 4000	280 @ 2400	3-Spd. manual (2.54 low)	3.08	--
								2-Spd. automatic*	2.73	--
								3-Spd. automatic*	2.73	3.31
	Turbo Fire 350V8 (L48)*	One; 4-bbl	8.5:1			175 @ 4000	280 @ 2400	3-Spd. automatic	2.73	3.31
	Turbo Jet 402V8 (LS3)*	One; 4-bbl	8.5:1			240 @ 4400	345 @ 3200	3-Spd. automatic	2.73	3.31
	Turbo Jet 454V8 (LS5)*	One; 4-bbl	8.5:1			270 @ 4000	390 @ 3200	3-Spd. automatic	3.31	--
	* - Optional ** - Positraction available optionally for all ratios. # - Same ratios available for A/C. A - Standard. B - Trailer option.									
	NOTE: <del>V8-402 &amp; 454 ENGINES ARE NOT AVAILABLE IN CALIFORNIA.</del>									

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

	Turbo-Fire 350 Standard	Turbo-Jet 402 RPO L48	Turbo-Jet 454 RPO LS3
MODEL			

## ENGINE - GENERAL

Type, no. cyls., valve arr.	90° V-8 OHV		
Bore and stroke (nominal)	4.00 x 3.48	4.126 x 3.76	4.251 x 4.00
Piston displacement, cu. in.	350	402	454
Bore spacing (C to C)	4.40	4.84	
No. system (front to rear)	L. Bank	1-3-5-7	
	R. Bank	2-4-6-8	
Firing Order	1-8-4-3-6-5-7-2		
Cylinder Head Material	Cast alloy iron		
Cylinder Block Material	Cast alloy iron		
Cyl. Sleeve-Wet, dry, none	None		
Number of mtg. points	Front	Two	
	Rear	One	
Engine installation angle	4° 46'		
Taxable horsepower	51.2	54.5	57.8
Recommended fuel regular - premium	Regular (unleaded or low lead)		
Cylinder Head Volume (cc)	75.47	113.06	113.06
Head Gasket Thickness (Compressed)	.021	.028	.028
Head Gasket Volume (cc)	4.58	6.69	7.10
Deck Clearance (nominal) (above or below block)	.025 (below)	.018 (below)	.020 (below)
Minimum Combustion Chamber Volume (cc)	74.47	112.06	112.06

## ENGINE - PISTONS

Material	Cast aluminum alloy		
Description and finish	Sump head; slipper skirt		Domed head; Valve cutout
			Flat head; Valve cutout
Weight (piston only) oz.	21.17		29.70
Clearance (limits)	Top land	.0235 - .0325	.0310 - .0370
	Skirt	Top	.0007 - .0017 (a)
		Bottom	.0018 - .0028 (b)
Ring groove diameter	No. 1 ring	3.546 - 3.556	3.770 - 3.780
	No. 2 ring	3.546 - 3.556	3.770 - 3.780
	No. 3 ring	3.582 - 3.592	3.803 - 3.813
	No. 4 ring	--	--

(a) Measured 1.56 from top of piston

(b) Measured 1.878 from top of piston

(c) Measured 1.69 from top of piston

## AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED <sup>(a)</sup>

MODEL	V8-350		V8-402	V8-454
	- Standard	L48	LS3	LS5

## ENGINE - RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression		
	No. 2, oil or comp.	Compression		
	No. 3, oil or comp.	Oil		
	No. 4, oil or comp.	---		
Compression	Description - Upper	Cast alloy iron, bevel face (a)		
	material, coating, etc. Lower	Cast alloy iron, inside bevel; tapered face (b)		
	Width	(c)	.0770-.0780	.0770-.0775
	Gap	(d)	.010-.020	
Oil	Description - material, coating, etc.	Multi-piece (2 rails and 1 spacer expander) Rails-steel, chrome plated O. D. ; expander-stainless steel		
	Width	.1870-.1890 (assembled)		
	Gap	.015-.055		
Expanders	In oil ring assembly			

## ENGINE - PISTON PINS

Material	Chromium steel			
Length	2.990-3.010	2.930-2.950		
Diameter	.9270-.9273	.9895-.9898		
Type	Locked in rod, in piston, floating, etc.	Locked in rod		
	Bush- ing	In rod or piston	None	
Clearance	In piston	.00015-.00025	.00025-.00035	.00030-.00040
	In rod	---		
Direction & amount offset in piston	Major thrust side .060			

## ENGINE - CONNECTING RODS

Material	Drop forged steel			
Weight (oz.)	20.80	27.84		
Length (center to center)	5.695-5.705	6.130-6.140		
Bearing	Material & Type	Premium aluminum		
	Overall length	.797	.847	
	Clearance (limits)	.0013-.0035	.0009-.0025	
	End play	.008-.014	.015-.023	

(a) Chrome plate on V8-350; molybdenum inlay on V8-402 &amp; 454.

(b) Chromeplate on V8-402, wear resistant coating all other.

(c) Upper .0775-.0780; lower .0770-.0775.

(d) Upper .010-.020; lower .013-.025.

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (e)

	V8 - 350	V8 - 402	V8 - 454
MODEL	Standard	L48	LS3 LS5

## ENGINE - CRANKSHAFT

Material		Cast nodular iron		Forged steel		
Vibration damper type		Rubber mounted inertia				
End thrust taken by bearing (No.)		5				
Crankshaft end play		.002 - .006		.006 - .010		
Main bearing	Material & type		Premium aluminum			
	Clearance		(a)		(b)	
	Journal dia. and bearing overall length	No. 1	2.4502 x .752	2.7504 x .962	2.7492 x .992	
		No. 2	2.4502 x .752	2.7504 x .962	2.7504 x .992	
		No. 3	2.4502 x .752	2.7504 x .962	2.7504 x .992	
		No. 4	2.4502 x .752	2.7504 x .962	2.7504 x .992	
		No. 5	2.4508 x 1.177	2.7505 x 1.256	2.7499 x 1.255	
		No. 6	None			
	No. 7	None				
Dir. & amt. cyl. offset		None				
No. bolts/main brg. cap		10 & 5		10 & 5      20 & 5		
Crankpin journal diameter		2.099 - 2.100		2.199 - 2.200		

## ENGINE - CAMSHAFT

Location		In block above crankshaft				
Material		Cast alloy iron				
Bearings	Material	Steel backed babbitt				
	Number	5				
Gear or chain		Chain				
Type of Drive	Crankshaft gear or sprocket material		Steel sprocket			
	Camshaft gear or sprocket material		Nylon teeth with aluminum hub			
	Timing chain	No. of links	46	50		
		Width	.740	.740		
Pitch		.500	.500			

- (a) No. 1 - .0008 - .0020  
 No. 2, 3 & 4 - .0011 - .0023  
 No. 5 - .0017 - .0033
- (b) No. 1 - .0007 - .0019  
 No. 2, 3 & 4 - .0013 - .0025  
 No. 5 - .0019 - .0035

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (e)

MODEL		V8-350 Standard	L48	V8-402 LS3	V8-454 LS5
<b>ENGINE - VALVE SYSTEM</b>					
Hydraulic lifters (Std., opt., NA)		Standard			
Valve rotator, type (intake, exhaust)		Exhaust		Exhaust	None
Rocker ratio		1.50:1		1.70:1	
Operating tappet clearance (indicate hot or cold)	Intake	Zero			
	Exhaust	Zero			
Timing (based on top of ramp points)	Intake	Opens (BTC)	28° (44°)	30°	56°
		Closes (ABC)	72° (96°)	70°	114°
		Duration (deg.)	280° (320°)	280°	350°
	Exhaust	Opens (BBC)	78° (88°)	77°	110°
		Closes (ATC)	30° (66°)	61°	62°
		Duration (deg.)	288° (334°)	318°	352°
Valve open overlap (deg.)		58° (110°)	91°	118°	
Intake	Material		Alloy steel; aluminized face		
	Overall length		4.870-4.889	5.215-5.235	
	Actual overall head dia.		1.935-1.945	2.060-2.070	
	Angle of seat & face (deg.)		46° (seat), 45° (face)		
	Seat insert material		None		
	Stem diameter		.3410-.3417	.3715-.3722	
	Stem to guide clearance		.0010-.0027		
	Lift (zero lash)		.3900 (.4006)	.3983	.4614
	Outer spring press. & length	Valve closed (lb. in.)	76-84 @ 1.70	84-96 @ 1.88	69-81 @ 1.88
		Valve open (lb. in.)	194-206 @ 1.25	205-225 @ 1.48	228-252 @ 1.38
	Inner spring press. & length	Valve closed (lb. in.)	Spring damper		
		Valve open (lb. in.)	Spring damper		
	Material		High alloy steel aluminized face (a)		
	Overall length		4.913-4.933	5.345-5.365	
Actual overall head dia.		1.495-1.505	1.715-1.725		
Angle of seat & face (deg.)		46° (seat), 45° (face)			
Seat insert material		None			
Stem diameter		.3410-.3417	.3713-.3720		
Stem to guide clearance		.0010-.0027			
Lift (zero lash)		.4100 (.4100)	.4300	.4800	
Exhaust	Outer spring press. & length	Valve closed (lb. in.)	76-84 @ 1.70	84-96 @ 1.88	69-81 @ 1.88
		Valve open (lb. in.)	194-206 @ 1.25	205-225 @ 1.48	228-252 @ 1.38
	Inner spring press. & length	Valve closed (lb. in.)	Spring damper		
		Valve open (lb. in.)	Spring damper		

(a) Head also aluminized on V8-402 & 454.

NOTE: Items bracketed ( ) pertain to data pertinent to components used in engines for California only.

# AMA Specifications Form—Passenger Car

MAKE OF CAR	MONTE CARLO			MODEL YEAR	1972	DATE ISSUED	9/71	REVISED (a)	
MODEL	V8 - 350 Standard	L48	V8 - 402 LS3	V8 - 454 LS5					

## ENGINE - LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from camshaft bearing
	Cylinder walls	Pressure jet cross sprayed
Oil pump type	Gear	
Normal oil pressure (lb. / engine rpm)	40 PSI @ 2000 RPM	
Oil press. sending unit (elect. or mech.)	Electric	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part., other)	Full flow	
Filter replacement (element, complete)	Complete	
Capacity of c/case, less filter-refill (qt.)	4	
Oil grade recommended (SAE viscosity and temperature range)	20° and above - 20W, 10W-30, 10W-40, 20W-40 0° to 60° F - 10W, 5W-30, 10W-40 Below 20° F - 5W, 5W-20, 5W-30	
Engine Service Reqmt. (MM, MS, etc.)	MS	

## ENGINE - EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with cross over	Dual with resonators
Muffler No. & type (reverse flow, straight thru, separate resonator)	One; reverse flow	2 mufflers, 2 resonators
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 x .082 laminated
	Main	2.50 x .082 laminated
Tail pipe dia. (O.D. & wall thickness)	1.88 x .069	2.00 x .067

(a) Pipe - muffler to resonator



# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

MODEL	-	Standard	V8 - 350 L48	V8-402 LS3	V8-454 LS5
-------	---	----------	-----------------	---------------	---------------

**ENGINE - FUEL SYSTEM**

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor			
Fuel Tank	Refill capacity (U.S. gals.)	19 approximately			
Fuel Tank	Filler location	Behind hinged rear license plate			
Fuel Pump	Type (elec. or mech.)	Mechanical			
Fuel Pump	Locations	Lower right front of engine			
Fuel Pump	Pressure range *	7.50 - 9.00			
Vacuum booster (std., optional, none)		None			
Fuel Filter	Type	Fine mesh plastic strainer in gasoline tank			
Fuel Filter	Locations	and paper filter in carburetor inlet			
Carburetor	Choke type	Automatic			
	Intake manifold heat control (exhaust or water)	Exhaust			
	Air cleaner type	Standard	Thermostatically controlled; oil wetted paper element		
		Optional			
Idle speed (spec. neutral or drive)	Manual-N	900	Not Available		
	Automatic-D		600		
	Idle A/F mix.		Not specified		

**CARBURETOR SUPPLEMENTARY INFORMATION**

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
2-Door Sport Coupe	350 245hp	Manual	Rochester	7042111 (7042831)	One; 2-bbl	1.69
		Automatic		7042112 (7042832)		
	350 270hp	Automatic	Rochester	7042202 (7042902)	One; 4-bbl	1.38 Prim. 2.25 Sec.
	402 300hp	Automatic	Rochester	7042200	One; 4-bbl	1.38 Prim. 2.25 Sec.
454 365hp	Automatic	Rochester	7042200	One; 4-bbl	1.38 Prim. 2.25 Sec.	

\* Shut off pressure - 1800 RPM at pump outlet.

NOTE: Items bracketed ( ) are used in engines required for California.

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

MODEL	-	V8 - 350	V8 - 402	V8-454
		Standard	L48	LS3

## ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure			
Radiator cap relief valve pressure		15 ± 1PSI			
Circulation thermostat	Type (choke, bypass)	Choke			
	Starts to open at (°F)	192° - 198°			
Water pump	Type (centrifugal, other)	Centrifugal			
	GPM 1000 pump rpm	26.0 @ 1900	23.8 @ 1900	24.3 @ 1900	
	Number of pumps	One			
	Drive (V-belt, other)	V-belt			
	Bearing type	Permanently lubricated double row ball			
By-pass recirculation type (inter., ext.)		Internal	External		
Radiator core type (cellular, tube and fin, other)		Tube and center			
Cooling system capacity	With heater (qt.)	16	24	23	
	Without heater (qt.)	15	22	22	
	Opt. equipment-specify (qt.)	16	24	24	
Water jackets full length of cyl. (yes, no)		Yes			
Water all around cylinder (yes, no)		Yes			
Radiator hose	Lower	Number and type (molded, straight)	One, molded		
		Inside diameter	1.75		
	Upper	Number and type (molded, straight)	One, molded		
		Inside diameter	1.50		
	By-pass	Number and type (molded, straight)	None	One, molded	
		Inside diameter	None	.725 - .765	
Fan	Number of blades & spacing		4-staggered		
	Diameter		19.00	18.00	
	Ratio-fan to crankshaft rev.		.949:1		
	Fan cutout type		None		
	Bearing type		Double row ball		
* Drive belts (indicate belt used by letter)	Fan		A	D	E
	Generator or alternator		A	D	E
	Water Pump		A	D	E
	Power Steering		B		F
	Air Conditioning		C		G
	Air Injection *			D	

\* California Engines Only

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	←—————→				38° - 42°	—————→					
Nominal length (SAE)	44.25	36.00	54.50	47.50	45.75	41.00	58.00				
Width	←—————→				.380	—————→					

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

MODEL V8-350 (standard equipped engines) | V8-350 (California equipped engines)

VEHICLE EMISSION CONTROL \* Also used on optional equipped engines V8-402 & 454.

	Type (Air injection, engine modifications, other)	Engine modifications	Air Injection*		
Exhaust Emission Control	Air Injection Pump	Type	Semi-articulated vane type		
		Displacement	19.3 cubic inch		
		Drive ratio	1.15:1		
		Drive type	Crankshaft pulley		
		Relief valve (type)	Diverter valve		
		Filter (describe)		Centrifugal air cleaner	
	Air Injection System	Air distribution (head, manifold, etc.)	NOT APPLICABLE	Manifold	
		Point of entry		Exhaust ports	
		Injection tube i.d.		.2565	
		Check valve type		Pressure plate type	
	Backfire protection (type)			Diverter valve	
Crankcase Emission Control	Type (ventilates to atmos., induction system, other)			Induction system	
		Standard Optional			
	Control Unit	Make and model		AC Spark Plug Division - 6484541	
		Location		Rocker cover - left front	
		Energy source (manifold vacuum, carburetor, other)		Manifold vacuum	
		Control method (variable orifice, fixed orifice, other)	Variable orifice		
	Complete system	Discharges (to intake manifold, other)	Intake manifold		
		Air inlet (breather cap, other)	Carburetor air cleaner		
		Flame arrestor (screen, other)	screen		
	Evaporative Emission Control	Fuel Tank	Refill Capacity (U.S. gallons)	19 approximately	
Thermal expansion volume (cu. ft.)			Approximately 10% of refill capacity		
Pressure relief location (lbs.)			1.1 PSI		
Vacuum relief location (lbs.)			.3 PSI		
Vapor-liquid separator type			Standpipe		
Vapor vented to (crankcase, canister, other)			Canister		
Carburetor Vapor Storage		Carburetor	Vapor vented to (crankcase, canister, other)	No vents	
				---	
		Vapor Storage	Storage provision (crankcase, canister, other)	Canister	
			Volume (cu. ft.) or capacity (grams)	---	
	Control valve type	Vacuum controlled staged purge valve			

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (e)

MODEL V8 - 350 V8 - 402 V8 - 454

### ELECTRICAL - SUPPLY SYSTEM

Battery	Make and Model		1980145		1980149	
	Voltage Rtg. & Total Plates		12 volts 66		12 volts 90	
	SAE Designation & Amp. Hr. Rtg.		61 amps @ 20 hr. rate		80 amps @ 20 hr. rate	
	Location		Right side of engine compartment			
	Terminal grounded		Negative			
Generator or Alternator	Make		Delco - Remy			
	Model		1102440		1102452	
	Type and rating		Diode rectified - 37 amps			
	Output at engine idle (neutral)		13 amps			
	Ratio—Gen. to Cr/s rev.		2. 73:1		2. 15:1	
Regulator	Make		Delco - Remy.			
	Model		1119515			
	Type		Vibrator			
	Cutout relay	Closing voltage generator rpm	None			
		Reverse current to open	None			
	Regu- lated	Voltage	13.8 - 14.8 @ 85° F			
		Current	---			
	Voltage test conditions	Temperature	Operating			
Load		3-8 amperes				
Other		None				

### ELECTRICAL - STARTING SYSTEM

Starting Motor	Make		Delco - Remy			
	Model		1108418		1108430*	
	Rotation (drive end view)		Clockwise			
Motor control	Switch (solenoid, manual)		Solenoid			
	Starting procedure		Manual-Place gearshift lever in neutral and depress clutch Automatic-Place gearshift lever in N or P position Initial Start-Press accelerator to floor & release. Turn ignition to START release as soon as engine starts.			
Motor Drive	Engagement type.		Positive shift solenoid			
	Pinion meshes (front, rear)		Rear			
	Number of teeth	Pinion	9		9	
		Flywheel	Manual	153		168
	Auto.		153		168	
	Flywheel tooth face width	Manual	.4010 - .4130		.4100 - .4220	
Auto.		.4010 - .4130		.4100 - .4220		

\* Also V8 - 350 (L48)



# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

	V8 - 350	V8-402	V8-454
MODEL	Standard	LS3	LS5

## ELECTRICAL - IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.	Standard
	Transistorized - Std., Opt., N.A.	Not available
	Other (specify)	None
Coil	Make	Delco Remy
	Model	1115293
	Amps	4.0
	Engine stopped Engine idling	1.8
Spark Plug	Make	AC Spark Plug
	Model	AC R44T
	Thread (mm)	14
	Tightening torque (lb. ft.)	25
	Gap	.033-.038
Cable	Conductor type	Linen core impregnated with electrical conducting mat'l.
	Insulation type	Rubber with neoprene jacket
	Spark plug protector	Neoprene

## ELECTRICAL - SUPPRESSION

Locations & type	Non metallic high ignition cables
------------------	-----------------------------------

## ELECTRICAL - INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Dial with pointer
	Trip odometer (std. opt., N.A.)	N. A.
Charge indicator - type		Tell-tale
Temperature indicator - type		Tell-tale
Oil pressure indicator - type		Tell-tale
Fuel indicator - type		Electric gage
Windshield wiper	Type - Standard	Electric, two-speed
	Type - Optional	None
Windshield washer	Type - Standard	Push-button
	Type - Optional	None
Horn	Type	Vibrator
	Number used	One
	Amp draw (each)	4.5-6.0 Amp. @ 12 Volts
Other		

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (e)

MODEL \_\_\_\_\_ V8 - 350 Standard

## DRIVE UNITS - CLUTCH (Manual Transmission)

Make & type	Chevrolet, single dry disc	
Type pressure plate springs	Diaphragm, bent finger design	
Total spring load (lb.)	2100-2300	
No. of clutch driven discs	One	
Clutch facing	Material	Woven type asbestos
	Outside & inside dia.	11.00 x 6.50
	Total eff. area (sq.in.)	123.70
	Thickness	.140
	Engagement cushioning method	Flat spring steel between facings
Release bearing	Type & method of lubrication	Single row ball packed and sealed
Torsional damping	Methods: springs, friction material	Coil springs

## DRIVE UNITS - TRANSMISSIONS

Manual 3-speed (std., opt. N.A.)	Standard
Manual 4-speed (std., opt. N.A.)	NA
Automatic (std., opt. N.A.)	Optional with all engines

## DRIVE UNITS - MANUAL TRANS.

Number of forward speeds	3		
Transmission ratios	In first	2.54	
	In second	1.50	
	In third	1.00	
	In fourth	--	
	In reverse	2.63	
Synchronous meshing, specify gears	All forward gears		
Shift lever location	Steering column		
Lubricant	Capacity (pt.)	3	
	Type recommended	Meeting Military Specs. MIL-L-2105B	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
Extreme cold		SAE 80	

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

<b>MODEL</b>	2-Speed Automatic V8-350 Standard	3-Speed Automatic V8-350 L48	V8-402 & 454
--------------	--------------------------------------	---------------------------------	--------------

## DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Powerglide	Turbo Hydra-Matic	
Type describe	Torque converter with planetary gears		
Selector location	Lever, steering column, floor mounted when used with console & bucket seats		
List gear ratios Selector Pattern and indicate which are used in each selector position	P-Park R-1.82 N-Neutral D-1.82-1.00 L-1.82	P-Park R-1.93 N-Neutral D-2.52-1.52-1.00 <del>D-2.52-1.52</del>	P-Park R-2.08 N-Neutral D-2.48-1.48-1.00 <del>D-2.48-1.48</del>
Max. upshift speed—drive range	77	*	
Max. kickdown speed—drive range	73	*	
Torque converter	Number of elements	3	
	Max. ratio at stall	2.10	
	Type of cooling (air, liquid)	Water	
Lubricant	Nominal diameter	11.75	12.20
	Capacity—refill (pt.)	6.5	8
	Type recommended	A suffix A	
Special transmission features			

## DRIVE UNITS – PROPELLER SHAFT

Number used	One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight tube	
Outer diam. x length* x wall thick- ness	Manual 3-speed trans.	3.25 x 55.52 x 0.065
	Manual 4-speed trans.	Same as 3-speed
	Overdrive transmission	Not available
	Automatic transmission	Same as 3-speed

\* Center to center of universal joints, or to centerline of rear attachment.

(Continued)

\* Upshift - V8-350 (1-2 55; 2-3 86) V8-402 (1-2 54; 2-3 91)  
V8-454 (1-2 50; 2-3 82)

Downshift - V8-350 (2-1 46; 3-2 84) V8-402 (2-1 31; 3-2 67)  
V8-454 (2-1 24; 3-2 58)



# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

MODEL \_\_\_\_\_

### DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	--
Slip Yoke	Type	Yoke
	Number of teeth	27
	Spline O.D.	1. 1750-1. 1752
Universal joints	Make and Mfg. No.	Chevrolet 1285
	Number used	Two
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	U-bolt
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Pre-pack
Drive taken through (torque tube or arms, springs)		Control arms
Torque taken through (torque tube or arms, springs)		Control arms

### DRIVE UNITS – AXLE

Type (front, rear)	Rear		
Description	Semi-floating, overhung hypoid pinion and ring gear		
Limited Slip differential, type	Cone clutches or dual disc clutches		
Drive Pinion Offset	1. 50		
No. of differential pinions	Two		
Pinion adjustment (shim, other)	Shim		
Pinion bearing adj. (shim, other)	Collapsible sleeve		
Wheel bearing type	Direct or single row cylindrical 4.9		
Lubricant	Capacity (pt.)	4.25 (8-1/8 Ring Gear); (8-7/8 Ring Gear)	
	Type recommended	Open Diff: Meeting Military Specs. MIL-L-2105B	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
Extreme cold		SAE 80	

### AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio	2.73	3.08	2.73	3.31	
No. of teeth	Pinion	15	12	15	13
	Ring gear	41	37	41	43
Ring Gear O.D.	8.125			8.875	

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED <sup>(\*)</sup>

MODEL \_\_\_\_\_

### DRIVE UNITS — TIRES AND WHEELS (STANDARD)

<b>TIRES</b>	Size, load range, ply		<b>G78x15B (2+2)</b>
	Type (bias, radial, etc.)		<b>Bias belted</b>
	Normal max. load inflation pressure (cold)	Front	<b>24</b>
		Rear	<b>28</b>
Rev. mile 45 mph		<b>750</b>	
<b>WHEELS</b>	Type & material		<b>Short spoke disc; steel</b>
	Rim (size & flange type)		<b>15x6</b>
	Attachment	Type (bolt or stud)	<b>Stud</b>
		Circle diameter	<b>4.75</b>
		Number & size	<b>5 hex nuts 7/16-20 UNF-2B</b>
Spare wheel (same or other)		<b>Same</b>	

### DRIVE UNITS — TIRES AND WHEELS (OPTIONAL)

Size, load range, ply		<b>G70x15B (2+2)</b>
Type (bias, radial, etc.)		<b>Bias belted</b>
Normal max. load inflation pressure (cold)	Front	<b>24</b>
	Rear	<b>28</b>
Rev. mile 45 mph		<b>760</b>
Wheel type & material		<b>Short spoke disc; steel</b>
Rim (size & flange type)		<b>15x7</b>

### DRIVE UNITS — TIRES AND WHEELS (OPTIONAL)

Size, load range, ply		
Type (bias, radial, etc.)		
Normal max. load inflation pressure (cold)	Front	
	Rear	
Rev. mile 45 mph		
Wheel type & material		
Rim (size & flange type)		

### BRAKES — PARKING

Type of control		<b>Apply-foot pedal; Release-pull handle</b>
Location of control		<b>Lower edge of instrument panel, left of stg. col.</b>
Operates on		<b>Rear service brakes</b>
If separate from service brakes	Type (internal or external)	---
	Drum diameter	---
	Lining size (length x width x thickness)	---

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (a)

MODEL \_\_\_\_\_

**BRAKES—SERVICE**

Type (drum) or (disc & no. of pistons)		Disc, front; drum, rear (a)		
Self adjusting (std., opt., N.A.)		Standard		
Special Valving	Type (proportion, delay, metering, other)	Metering and proportioning		
Power brake make & type (remote, int., etc.)	Std. Opt.	Standard, Delco Moraine ---		
Effective area (sq. in.) *		102.9		
Gross lining area (sq. in.) **		118.1		
Swept area (sq. in.) ***		332.4		
Effectiveness		Front Rear		
		Controlled by valving		
Drum	Diameter (nominal)	Front Rear	--- 9.5	
	Type and material		Composite; cast iron rim, steel web	
Rotor	Outer working diameter		11.0	
	Inner working diameter		7.18	
	Thickness		1.00	
	Material & type (vented/solid)		Cast iron; vented	
Wheel cylinder bore	Front	2.9375		
	Rear	0.875		
Master Cylinder	Bore	1.125		
	Stroke	1.44		
Pedal arc ratio		3.44		
Line pressure at 100 lb. pedal load		1025		
Shoe Clearance	Front	Self adjusting		
	Rear	Self adjusting		
Anti-skid device type (std., opt., N.A.)		N. A.		
Brake lining	Bonded or riveted		Riveted	
	Front Wheel	Material		Molded asbestos
		Size (length x width x thickness)	Prim. or out-board	5.96x2.21x0.41
			Second. or in-board	5.96x2.21x0.41
		Segments per shoe		One
	Rear Wheel	Material		Molded asbestos
		Size (length x width x thickness)	Prim. or out-board	9.01x2.0x0.17
			Second. or in-board	9.75x2.0x0.17
Segments per shoe		One		

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

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

(a) Disc-single piston, floating caliper; Drum-single piston, duo servo.

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

## MODEL

## STEERING

Manual (std., opt., NA)			
Power (std., opt., NA)		Standard; energy absorbing steering column	
Adjustable steering wheel (tilt, swing, other)	Type and description (std., opt., NA)	Tilt: universal jointed steering shaft at base of steering wheel; 5 inch vertical travel	
		Optional	
Wheel diameter	Manual	15.25x14.75 (Oval)	
	Power	Same	
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	45.5
		Curb to curb (l. & r.)	42.0
	Inside rear	Wall to wall (l. & r.)	--
		Curb to curb (l. & r.)	--
Manual	Gear	Type	
		Make	
		Ratios	
		Gear Overall	
	No. wheel turns (stop to stop)		
Power	Type (coaxial, linkage, etc.)		Integral gear with vane type gear
	Make		Saginaw Steering
	Gear	Type	Same as manual
		Ratios	16.0-13.0:1
		Gear Overall	18.5-12.4:1
Pump driven by		Crankshaft pulley	
No. wheel turns (stop to stop)		2.9	
Linkage	Type		Parallelogram
	Location (front or rear of wheels, other)		Front of wheels
	Drag link (trans. or longit.)		None
	Tie rods (one or two)		Two
Steering Axis	Inclination or camber (deg.)		8-1/4 ± 1/2
	Bearings (type)	Upper	Ball stud with non-metallic surfaces
		Lower	Ball stud with non-metallic surfaces
		Thrust	None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		-1 ± 1
	Camber (deg.)		+3/4 ± 3/4
	Toe-in (outside track inches)		1/16 to 5/16
Steering spindle & joint type		Forging with pad for mounting brake cylinder spherical	
Wheel Spindle	Diameter	Inner bearing	1.2493-1.2498
		Outer bearing	0.7493-0.7498
	Thread size		3/4-20 NEF-3 (modified)
	Bearing type		Taper roller

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

MODEL \_\_\_\_\_

## SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	Front stabilizer bar	
Provision for brake dip control	Mounting angle of front upper control arms	
Provision for acc. squat control	Geometry of rear suspension	
Special provisions for car jacking	Position jack in bumper notch on lower face of front and rear bumper	
Shock absorber front & rear	Type	Direct double acting hydraulic
	Make	Delco
	Piston dia.	1.00
Other special features		

## SUSPENSION – FRONT

Type and description	Independent - SLA type with coil spring and concentric shock absorber and spherically jointed steering knuckle for each wheel	
Spring	Type	Coil
	Material	Steel alloy
	Size (coil design height & I.D., bar length x dia.)	11.7x3.63; 133.40x0.595
	Spring rate (lb. per in.)	250
	Rate at wheel (lb. per in.)	95
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	HR steel; 0.9375

## SUSPENSION – REAR

Type and description	Linked; Salisbury axle fixed by control arms	
Drive and torque taken through	Control arms	
Spring	Type	Coil
	Material	Steel alloy
	Size (length x width, coil design height & I.D., bar length & dia.)	14.7x5.50; 103.8x0.522
	Spring rate (lb. per in.)	130
	Rate at wheel (lb. per in.)	100
	Mounting insulation type	Natural rubber
	If leaf	No. of leaves
	Shackle (comp. or tens.)	---
Stabilizer	Type (link, linkless, frameless)	None
	Material & bar diameter	---
Track bar type	None	

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (a)

MODEL \_\_\_\_\_

FRAME \_\_\_\_\_

Type and description (Separate frame, unitized frame, partially - unitized frame)

All welded perimeter type with crossmember, rear suspension crossmember and rear crossmember.

### BODY - MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)		Front
Rear doors		--
Type of finish (lacquer, enamel, other)		Acrylic lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle Ident. No. location		Top left hand of instrument panel pad
Engine No. location		Top front of RH bank of cylinder case
Theft protection - type		Lock mounted on steering column; locks steering wheel, transmission, shift levers and ignition.
Vent window control method (crank, friction pivot)	Front	None
	Rear	---
Seat cushion type	Front	Formed wire and foam pad
	Rear	Formed wire, foam pad and cotton
	3rd seat	---
Seat back type	Front	Formed wire and foam pad
	Rear	Formed wire, foam pad and cotton
	3rd seat	---
Windshield glass type (i.e., single curved - laminated plate)		Curved - laminated plate
Side glass type (i.e., curved - tempered plate)		Curved - tempered plate
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Curved - tempered plate
Windshield glass exposed surface area		1208.7
Side glass exposed surface area		1225.4
Backlight glass exposed surface area -		1059.4
Total glass exposed surface area		3493.5

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

MODEL \_\_\_\_\_

## CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional
	Vent windows	NA
	Backlight or tailgate	--
Power seats (specify type as well as availability)		Optional 4-way bench seat; 4-way bucket seat
Reclining front seat back (R-L or both)		NA
Front seat head restrainer (R-L or both)		Standard
Radios (specify type as well as availability)		Optional AM - Push-button, AM-FM Stereo-radio AM-FM Push-button
Rear seat speaker		Optional
Power antenna		NA
Clock		Standard
Air conditioner (specify type and availability)		Optional-Four season and G. M. Chevrolet
Speed warning device		NA
Speed control device		Optional
Ignition lock lamp		NA
Dome lamp		Standard
Glove compartment lamp		Standard
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		Optional
Map lamp		NA
Auto. trans. quad. lamp		Standard
Cornering light lamp		NA
Rear window defroster electrically heated		NA
Rear window defogger		Optional
Windshield antenna		Available with factory installed radio

## LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp (H125)	Highest *	30.60
		Lowest	23.88
	Tail (H126)	Highest	27.30
		Lowest	17.74
	Sidemarker	Front	
		Rear	
Distance from C. L. of car to center of bulb	Headlamp	Inside	
		Outside *	
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

\* If single headlamps are used enter here.

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED (\*)

VEHICLE WEIGHTS-

Model	CURB WEIGHT* (Pounds)			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT** (Pounds) <b>TOTAL</b>
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
2-Door Sport Coupe-13857	1994	1609	3603	45.3	54.7	18.6	81.4	3506

\*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).  
 \*\*Shipping weight definition - weight of basic vehicle with regular equipment, including grease, oil and (3) gallons of gasoline, and engine coolant to capacity.



# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1972 DATE ISSUED 9/71 REVISED <sup>(e)</sup>

### OPTIONAL EQUIPMENT WEIGHTS

Equipment Differential Weights	WEIGHT (Pounds)			Remarks
	Front	Rear	Total	
Air Conditioning	+ 96	+ 6	+102	
Power Windows	+ 11	+12	+ 23	
Power Steering	+ 27	+ 1	+ 28	
Radio AM Push button	+ 6	+ 2	+ 8	
Radio AM/FM push button	+ 6	+ 3	+ 9	
AM Push button radio & Tape player	+ 17	+ 4	+ 21	
A M-FM Push button	+ 18	+ 4	+ 22	
Radio & Tape Player				
Radio Stereo Equipment	+ 12	+ 3	+ 15	
Electric Door locks	+ 5	+ 3	+ 8	
Electric window control	+ 11	+12	+ 23	
Power Seat 4-Way	+ 11	+ 8	+ 19	Bench Seat
	+ 15	+ 9	+ 24	Bucket Seat
Exterior soft roof cover	+ 2	+ 5	+ 7	
Floor Console	+ 13	+ 4	+ 17	With automatic transmission
350 cu. in. L48	+ 7	+ 1	+ 8	
402 cu. in. LS3	+180	+42	+222	
454 cu. in. LS5	+155	+27	+182	
Powerglide Transmission	+ 6	+ 4	+ 10	Used with base V8-350
Turbo Hydra-matic trans.	+ 21	+ 6	+ 27	With L48
	+ 41	+ 9	+ 50	With LS3
	+103	+18	+121	With LS5

# **DIMENSIONS AND WEIGHTS**

<b>INTERIOR DIMENSIONS</b> .....	<b>2</b>
<b>LUGGAGE CAPACITY</b> .....	<b>2</b>
<b>EXTERIOR DIMENSIONS</b> .....	<b>3</b>
<b>VEHICLE WEIGHTS</b> .....	<b>4</b>

# INTERIOR DIMENSIONS

## FRONT COMPARTMENT

CODE	DESCRIPTION	SPORT COUPE
H3	Seat cushion height	10.5
H11	Entrance height	29.5
H13	Steering wheel thigh clearance	4.0
H30	H point to heel point	8.1
H32	Seat cushion deflection	3.9
H50	Upper body opening to ground	48.2
H58	H point rise	0.8
H61	Effective headroom	37.6
H70	H point to body O line	14.2
H75	Effective 'T' point headroom	37.6
W3	Shoulder room	58.0
W5	Hip room	59.4
L7	Steering wheel torso clearance	12.1
L17	H point travel	4.8
L34	Effective leg room	42.8

## REAR COMPARTMENT

H8	Seat cushion height	12.7
H31	H point to heel point	10.1
H33	Seat cushion deflection	4.7
H63	Effective headroom	36.3
H71	H point to body O line	13.4
H76	Effective 'T' point headroom	36.3
W4	Shoulder room	56.6
W6	Hip room	53.0
L3	Rear compartment room	23.7
L50	H point couple distance	30.6
L51	Effective leg room	32.3

## LUGGAGE COMPARTMENT

H195	Liftover height	25.7
V1	Usable luggage capacity (cu.ft.)	12.9

## EXTERIOR DIMENSIONS

### LENGTHS

CODE	DESCRIPTION	SPORT COUPE
L101	Wheelbase	116.0
L102	Tire size (standard)	G78-15
L103	Overall length	206.5
L104	Overhang - front	41.7
L105	Overhang - rear	48.8
--	Overall length - less bumpers	202.2
L127	Body O line to C/L of rear wheels	95.5
L128	Hood length at centerline	69.0
L30	Body O line to actual front of dash	0.0

### WIDTHS

W101	Tread - front	60.2
W102	Tread - rear	59.3
W103	Maximum overall width of car	75.6
W106	Front fender overall width	67.6
W107	Rear fender overall width	74.8
W120	Overall car width, front doors open	150.0

### HEIGHTS

H101	Overall height (design)	52.9
H102	Front bumper to ground	13.6
H104	Rear bumper to ground	12.8
H111	Rocker panel to ground - rear	7.5
H112	Rocker panel to ground - front	8.3
H114	Hood at rear to ground	37.8
H115	Step height - front (design)	12.2
H116	Step height - rear (design)	--
H125	Headlamp to ground	27.5
H126	Tail lamp to ground	23.9
H136	Body O line to ground - front	4.7
H137	Body O line to ground - rear	4.1

### CLEARANCES

H106	Angle of approach (degrees)	25.9
H107	Angle of departure (degrees)	20.8
H147	Ramp breakover angle (degrees)	13.7
H148	Front suspension to ground	6.7
H149	Oil pan to ground	5.4
H150	Flywheel housing to ground	5.8
H151	Frame to ground	5.4
H152	Exhaust system to ground	4.7
H153	Rear axle to ground	7.8
H154	Fuel tank to ground	7.5
H155	Tire well to ground	--
H156	Minimum ground clearance	4.7 (H152)

# VEHICLE WEIGHTS

## MONTE CARLO

MODEL SYMBOL V-8	VEHICLE TYPE Description	SHIPPING WEIGHT			CURB WEIGHT		
		Front	Rear	Total	Front	Rear	Total
13857	2-Door Sport Coupe	2013	1493	3506	1994	1609	3603

**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.

For total shipping, and curb, weights of vehicles equipped with the following options, add to, or deduct from, the base vehicle weight (lbs.).

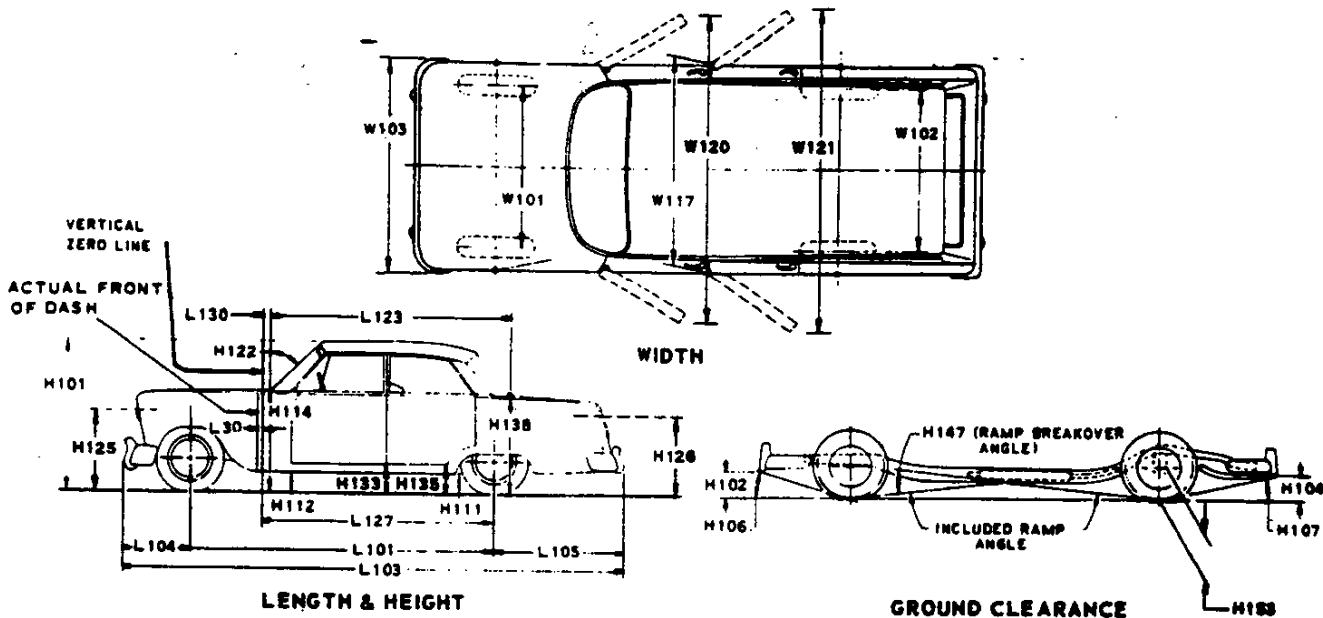
### OPTIONAL EQUIPMENT

RPO	OPTION	WITH	WEIGHT
AU3	Electric Door Locks		+ 8
A31	Electric Window Control		+ 23
A51	Astro Bucket Seats		+ 19
C08	Vinyl Roof Cover		+ 7
C60	Air Conditioning		+102
D55	Console	4-Speed	+ 9
		Automatic	+ 17
-	350 Cu.In. V8 Engine	Powerglide Transmission	+ 12
		Turbo Hydra-matic Transmission	+ 38
L48	350 Cu.In. V8 Engine	Turbo Hydra-matic Transmission	+ 56
LS3	402 Cu.In. V8 Engine	Turbo Hydra-matic Transmission	+284
L55	454 Cu.In. V8 Engine	Turbo Hydra-matic Transmission	+315
UM1	AM Pushbutton Radio & Tape Player		+ 21
UM2	AM-FM Pushbutton Radio & Tape Player		+ 22
U63	AM Pushbutton Radio		+ 8
U69	AM-FM Pushbutton Radio		+ 9
U79	Radio Stereo Equipment		+ 15

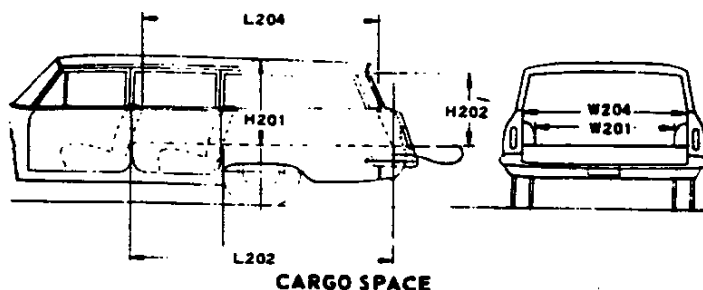
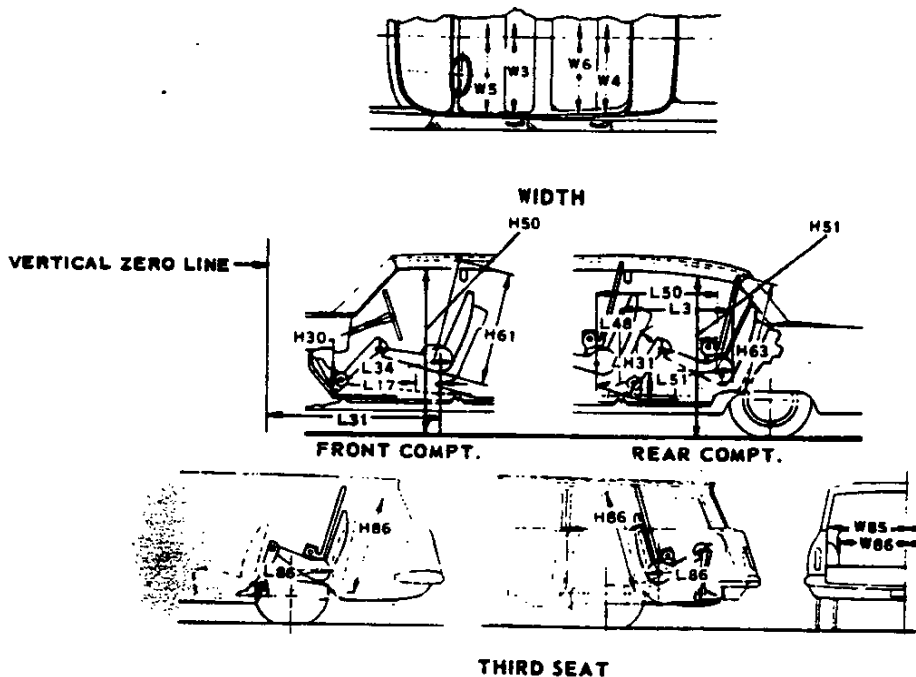
## CAR AND BODY DIMENSIONS

### KEY SHEET

### EXTERIOR CAR AND BODY DIMENSIONS



### INTERIOR CAR AND BODY DIMENSIONS



**EXTERIOR CAR AND BODY DIMENSIONS  
KEY SHEET  
DIMENSION DEFINITIONS**

**WIDTH DIMENSIONS.**

- W101 WHEEL TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD - REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.
- W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN is measured to outside of sheet metal with front doors in maximum hold-open position.
- W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN is measured in same manner as W120.

**LENGTH DIMENSIONS.**

- L30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG - FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG - REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

**HEIGHT DIMENSIONS**

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.
- H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.

- H133 BOTTOM OF DOOR TO GROUND, CLOSED - FRONT is the same point on the door as H132 dimension, with door closed.
- H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H135 BOTTOM OF DOOR TO GROUND, CLOSED - REAR is measured in same manner as H133.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.
- H125 HEADLAMP CENTERLINE TO GROUND is measured vertically to the center of the upper lamp.
- H126 TAILLAMP CENTERLINE is measured vertically from ground to the centerline of the upper bulb.

**GROUND CLEARANCE DIMENSIONS**

- H102 BUMPER TO GROUND - FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND - REAR. Minimum dimension, includes bumper guards.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND is a minimum clearance.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

**INTERIOR CAR AND BODY DIMENSIONS  
KEY SHEET  
DIMENSION DEFINITIONS**

**FRONT COMPARTMENT DIMENSIONS**

- L31 H POINT TO VERTICAL ZERO LINE - FRONT Is a horizontal dimension.
- H61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L34 MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
- H30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.
- W3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
- W5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.
- H50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.
- REAR COMPARTMENT DIMENSIONS**
- L50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
- H31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
- L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
- W4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
- W6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
- H51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

**LUGGAGE COMPARTMENT DIMENSIONS**

- V1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.
- STATION WAGON - THIRD SEAT DIMENSIONS**
- W85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W86 HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
- L86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

**STATION WAGON - CARGO SPACE DIMENSIONS**

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheel housings at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and liftgates fully open.
- V2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201

1728



## INDEX

SUBJECT	PAGE NO.	SUBJECT	PAGE NO.
Automatic Transmission	17	Kingpin (Steering Axis)	21
Axis, Steering	21	Lamp height and spacing	24
Axle, Rear	18	Legroom	3
Battery	13	Lengths - Car and Body	2
Bearings, Engine	5, 6, 7	Lifters, valve	8
Belts - Fan, Generator, Water Pump	11	Linings - Clutch, Brake	16, 20
Brakes - Parking, Service	19, 20	Lubrication	9, 16, 17, 18
Camber	21	Luggage Compartment	3
Camshaft	7	Motor, Starting	13
Capacities		Muffler	9
Cooling System	11		
Fuel Tank	10	Piston Pins & Rings	5, 6
Lubricants		Pistons	5, 6
Engine Crankcase	9	Power Brakes	20
Transmission and Overdrive	16, 17	Power Steering	21
Rear Axle	18	Power Teams	4
Car and Body Dimensions		Propeller Shaft, Universal Joints	17, 18
Width	2	Pumps - Oil, Fuel	9, 10
Length	2	Water	11
Height	2	Radiator, Hoses	11
Ground Clearance	2	Ratios - Axle	4, 18
Front Compartment	3	Compression	4, 5
Rear Compartment	3	Steering	21
Luggage Compartment	3	Transmission	16, 17
Station Wagon - Third Seat	3	Rear Axle	4, 18
Station Wagon - Cargo Space	3	Regulator - Generator	13
Carburetor	4, 10, 12	Rims	19
Caster	21	Rings, Piston	6
Choke, Automatic	10	Rods - Connecting	6
Clutch - Pedal Operated	16	Shack Absorbers, Front & Rear	22
Coil, Ignition	15	Spark Plugs	15
Connecting Rods	6	Speedometer	15
Convenience Equipment	24	Springs - Front & Rear Suspension	22
Cooling System	11		
Crankcase Ventilation System	12	Stabilizer (Sway Bar) - Front & Rear	22
Crankshaft	7	Starting System	13
Cylinders and Cylinder Head	5	Steering	21
Dimension Definitions		Supply System	13
Key Sheet - Exterior	27, 28	Suppression - Ignition, Radio	15
Key Sheet - Interior	27, 29	Suspension - Front & Rear	22
Distributor - Ignition	14		
Electrical System	13, 14, 15	Tail Pipe	9
Engine		Thermostat, Cooling	11
Bore, Stroke, Displacement, Type	5	Timing, Engine & Valve	8, 14
Compression Ratio	4, 5	Tires	19
Firing Order, Cylinder Numbering	5	Toe in	21
General Information, H.P. & Torque	4, 5	Torque Converter	17
Lubrication	9	Torque - Engine, Rated	4
Power Teams	4	Transmission - Types	4, 10, 16, 17
Exhaust Emission Control	12	Automatic	4, 10, 16, 17
Exhaust System	9	Manual	4, 10, 16
Equipment Availability	24	Ratios	16, 17
Fan, Cooling	11	Track	2
Filters - Engine Oil, Fuel System	9, 10	Trunk Luggage Capacity	3
Frame	23	Turning Diameter	21
Front Suspension	22	Unitized Construction	23
Fuel, Fuel Pump, Fuel System	5, 10	Universal Joints, Propeller Shaft	17, 18
Fuel Injection	10	Valves - Intake & Exhaust	8
Generator and Regulator	13	Vibration Damper	7
Glass	23	Voltage Regulator	13
Height (Lamps)	24	Water Pump	11
Headroom - Body	3	Weights	25, 26
Heights - Car and Body	2	Wheel Alignment	21
Horns	15	Wheelbase	2
Horsepower - Brake	4	Wheels & Tires	19
Ignition System	14	Wheel Spindle	21
Inflation - Tires	19	Widths - Car and Body	2
Instruments	15	Windshield	23
		Windshield Wiper	15