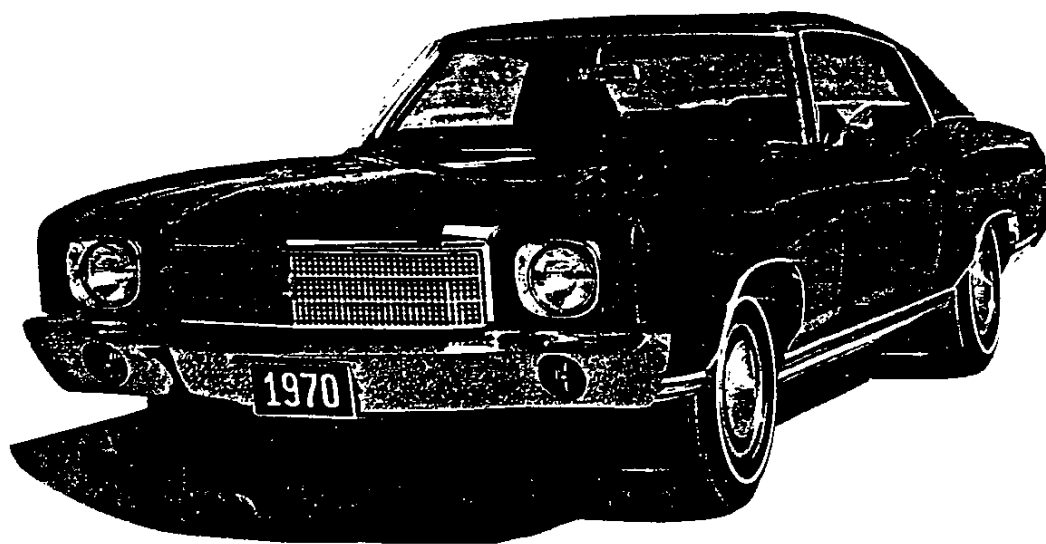




Chevrolet



1970 Monte Carlo

GENERAL

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MODEL IDENTIFICATION

MONTE CARLO SPORT COUPE
MODEL 13857 2-DOOR SPORT COUPE, 5-PASSENGER

SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

VEHICLE SERIAL NUMBER

8-Cylinder Example:

Model	Model Year	Assembly Plant (Flint)	Unit Number (1st unit)
13857	0	F	100001

Thus: The 1st model built at Flint would be serial number 138570F100001

ASSEMBLY PLANTS

"B" - Baltimore-GMAD "F" - Flint
 "L" - Van Nuys-GMAD

Starting unit number 100001 and up at
 each assembly plant regardless of series
 Location Stamped on plate attached
 to top left hand of instrument panel.

TRANSMISSION IDENTIFICATION

Type Designation	Source Designation	Model Year 1970	Production ^o Month & Date
RR	M (Muncie)	0	E01D*
RR	3-Speed	V-8 engine	M - Muncie
WA	4-Speed	V-8 engine	P - Muncie
VO	Powerglide	V-8 engine	C - Cleveland T - Toledo
GS	Turbo Hydra-Matic	V-8 engine	B - Cleveland Y - Toledo
CR	Turbo Hydra-Matic	V-8 engine	-- Ypsilanti

3-Speed Stamped on
 left side on boss below side cover.
 4-Speed Stamped on
 the top right side of the case.
 Powerglide & Turbo
 Hydra-Matic (Chevrolet) Stamped on
 right hand side of pan.
 Turbo Hydra-Matic Nameplate
 tag on right hand side of the case.

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

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

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

ENGINE IDENTIFICATION

Example: F1210CNI

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

Turbo-Fire 350, 350 Cubic Inch V-8, Base Engine
 CNI - Regular engine, 3-Speed, 2-bbl. carb.
 CNM - Regular engine, Powerglide, 2-bbl. carb.
 CNM - Regular engine, Turbo Hydra-Matic (Chevrolet)

Turbo-Fire 350, 350 Cubic Inch V-8 (RPO-L48)
 CNJ - Optional engine, 3-speed, 4-bbl. carb.
 CNK - Optional engine, Powerglide, 4-bbl. carb.
 CRE - Optional engine, Turbo Hydra-Matic (Chevrolet)

Turbo-Fire 400, 400 Cubic Inch V-8 (RPO-LF6)
 CZX - Optional engine, 3-speed, 4-bbl. carb.
 CRH - Optional engine, Turbo Hydra-Matic (Chevrolet)

Turbo-Jet 400, 402 Cubic Inch V-8 (RPO-LS3)
 CKR - Optional engine, 3-speed, 4-bbl. carb.
 - Optional engine,

Turbo-Jet 454, 454 Cubic Inch V-8 (RPO-LS5)
 CRN - Optional engine, 3-speed, 4-bbl. carb.
 CRQ - 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 with Articulated Left Blade	X
Bright Hood and Fender Rear Molding	X
Special Circular Bumper-Mounted Parking Lamp with Clear Lens and Amber Bulb	X
Bright Die Cast Radiator Grille	X
Single Headlamps	X
Bright Headlamp Bezels	X
Bright Die Cast Fender Extension Lower Molding	X
Radiator Grille Crest Emblem	X

SIDE	
Sail Panel Nameplate "Monte Carlo" - Script	X
Rectangular Outside Rear View Mirror	X
Two-Sectioned, Black-Accented, Bright Rocker and Body Side Lower Molding (Front Fender, Lower Door and Rocker, and Rear Quarter)	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
Black Paint above and below Rocker Molding between Wheel Openings	X
Rear bumper Cove Mldg. Black Rubber	X

REAR	
Rear End 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; Lower Half Framed in Bumper	X
Bright Rear End Panel Molding	X
Bright Molding Framing Upper Half of Tail Lamp	X

EXTERIOR EQUIPMENT

STANDARD EXTERIOR EQUIPMENT

ROOF AND PILLARS	MONTE CARLO
Premiere 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
Hook-Type Rear View Mirror Support	X
Trim Color Plastic Rear View Mirror Support Cover	X
Padded Sunshades	X
Air Gap Windshield Pillars	X
Trim Color Plastic Coat Hooks	X
Bright Bezeled Center Dome Lamp	X
Front Door Jam Switches	X
Front Seat Shoulder Belt Anchor Cover (Belt Color)	X
Bright Front Seat Shoulder Belt Clip Retainers	X
Embossed Board Rear Package Shelf	X

SEATS AND FLOOR COVERING	
Front Seat Cushion with 2.00 Foam Pad	X
Rear Seat Cushion with 1.75-Inch Foam Pad	X
Bright Front Seat Adjuster Handle	X
Bright Folding Front Seat Back Latch	X
Cloth and Vinyl Seat Cushion and Seat Back	X
Carpet Passenger Compartment Floor Covering	X
Luggage Compartment Spatter Paint	X
Luggage Compartment Mat (Vinyl Coated Cotton on Latex Foam)	X
Front Seat Head Restraints	X
Front and Rear Seat Belts	X
Front Seat Shoulder Belts	X
Bench Seats	X
Carpeting Along Back of Front Seat at Bottom	X
Front Seat Belt Anchor Cover (Belt Color)	X

DOOR AND QUARTER PANEL	
Front Door Padded Armrest with Bright Backing Plate	X
Built-In Rear Quarter Panel Armrest and Ash Tray	X
Clear Plastic Window Control Handle Knobs	X
Bright Door Lock Buttons	X
Padded Vinyl Door and Quarter Panel Trim (Prima Knit Texture); Carpeting Along Bottom of Doors	X
Vinyl Door Assist Handle with Bright Escutcheon	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
Bright, Black-Accented Instrument Panel Lighting Control Knob	X
Bright Hazard Flasher Knob	X
Trim Color 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	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 Horn Buttons and Wood-Grain Shroud	X
"Monte Carlo" nameplate in Center of Steering Wheel	X
GLASS	
Laminated Safety Plate Glass Windshield	X
Solid Safety Plate Glass Backlight	X
Solid Safety Plate Glass Door Windows	X
Solid Safety Plate Glass Rear Quarter Windows	X

EXTRA COST EQUIPMENT

EQUIPMENT	RPO/ACC	MODELS
Air Conditioning		
Four-Season	C60	13857
GM-Chevrolet	ACC	13857
Appearance Guard Group (1)		
ZP5		
Door Edge Guards	B93 ACC	13857
Twin Front and Rear Floor Mats	B37 ACC	13857
Front Bumper Guards	V31 ACC	13857
Rear Bumper Guards	V32 ACC	13857
Visor Vanity Mirror	D34 ACC	13857
Axles		
Positraction	G80	13857
Ratios (See Power Train Sections)		
Battery, Heavy Duty	T60	13857
Belts, Seat and Shoulder		
Deluxe Seat Belts and Front Shoulder Belts (2)	AK1	13857
Deluxe Shoulder Belts, Rear	AS4	13857
Seat Belt Retractors, Front	ACC	13857
Child Safety Seat	ACC	13857
Compass, Auto	ACC	13857
Console		
Front Compartment Floor Console	D55	13857
Cruise Control	K30 ACC	13857
Defoggers		
Forced Air Rear Window Defogger	C50 ACC	13857
Engines (See Power Train Sections)		
Exhaust Systems		
Dual Exhaust	N10	13857
Evaporative Emission Control (3)	NA9	13857
Fender Skirts, Rear	T58	13857
Fire Extinguisher		
Dry Chemical Extinguisher	ACC	13857
Recharge Kit	ACC	13857
Generator, 63-Ampere	K85	13857
Glass, Tinted		
All Windows	A01	13857
Windshield (Fleet Sales)	A02	13857
Guards		
Door Edge Guards (4)	B93 ACC	13857
Front Bumper Guards (4)	V31 ACC	13857
Rear Bumper Guards (4)	V32	13857
Heater, Engine Block	K05 ACC	13857
Highway Emergency Kit	ACC	13857

- (1) Items also available as independent options.
- (2) Merchandised as YAI.
- (3) California requirement.
- (4) Merchandised as independent option or through ZP5 group.

EXTRA COST EQUIPMENT

EQUIPMENT	RPO/ACC	MODELS
Infant Safety Carrier	ACC	13857
Instrumentation		
Instrument Panel Gauges	U14	13857
Lighting, Auxiliary (1)		
Ash Tray Light	Z19	13857
Courtesy Lights (2)		13857
Luggage Compartment Light (2)		13857
Mirror Map Light		13857
Underhood Light (2)		13857
Windshield Washer Fluid Monitor Light (2)		13857
Light Monitor System, Front and Rear	U46	13857
Liquid Tire Chain	ACC	13857
Locks		
Gas Cap Lock	ACC	13857
Spare Wheel Lock	ACC	13857
Luggage Carriers		
Deck Lid Luggage Carrier	ACC	13857
Mats, Floor		
Clear Vinyl Twin Front and Rear Mats	ACC	13857
Twin Front and Rear Mats (3)	B37 ACC	13857
Mirrors		
Remote Control Outside Mirror (4)	D33	13857
Right Hand Outside Mirror	ACC	13857
Visor Vanity Mirror (3)	D34	13857
Model Options		
Monte Carlo SS	Z20	13857
Molding		
Belt Reveal Molding	B85	13857
Operating Convenience Group (5)		
Remote Control Outside Mirror	D33	13857
Forced Air Rear Window Defogger	C50 ACC	13857
Power Assists		
Automatic Seat Back Latch (6)	AQ2	13857
Electric Door Locks	AU3	13857
Electric Trunk Opener	A90	13857
4-Way Power Bench Seat	A41	13857
4-Way Power Bucket Seat (Driver's Seat)	A46	13857
Power Steering	N40	13857
Power Windows	A31	13857
Radiator, Heavy Duty	V01	13857

- (1) Available from factory as option only.
- (2) Available as separate dealer installation.
- (3) Merchandised as independent option or through ZP5 group.
- (4) Merchandised as independent option or through ZQ2 group.
- (5) Items also available as independent options.
- (6) Used only with RPO AU3.

EXTRA COST EQUIPMENT

EQUIPMENT	RPO/ACC	MODELS
Radio Equipment		
AM Radio (1)	U63 ACC	13857
AM/FM Radio (1)	U69 ACC	13857
AM/FM Stereo Radio (2)	U79	13857
Stereo Tape System with AM Radio (2)	UM1	13857
Stereo Tape Sys. with AM/FM Stereo Radio (2)	UM2	13857
Stereo Tape Player (3)	ACC	13857
Rear Speaker	U80 ACC	13857
Stereo Tape Cartridge Holder	ACC	13857
Roof Cover, Vinyl	C08	13857
Seats		
Strato-Bucket Seat	A51	13857
Automatic Level Control	G67	13857
Ski Racks		
Demountable Ski Rack	ACC	13857
Spotlight, Portable	ACC	13857
Steering Wheels		
Comfortilt	N33	13857
Cushioned Rim Steering Wheel	NK1	13857
Tires (See Chassis Sections)		
Tissue Dispenser and Litter Container	ACC	13857
Trailer Equipment		
Equalizing Trailer Hitch	ACC	13857
Trailer Hitch	ACC	13857
Trailer Wiring Harness	ACC	13857
Transmissions (See Power Train Sections)		
Trim, Interior (See Interior-Exterior Color Combination Sections)		
Two-Tone Finish (See Interior-Exterior Color Combinations Sections)		
Wheel Covers		
Color-Keyed Wheel Covers	PA3	13857
Mag-Style Wheel Covers	ACC	13857
Simulated Wire Wheel Covers	ACC	13857
Wheels		
Rally Wheel	ZJ7	13857
15 x 7 Wheel	PH1	13857
Windshield Wiper Control Finger Tip	CD3	13857

- (1) Concealed antenna for option; front mast for accessory.
Single front speaker without A/C.
Dual front speakers on top of instrument panel with A/C.
- (2) Dual front speakers on top of instrument panel.
Dual rear speakers.
- (3) With or without radio (AM or AM/FM). Two front, two rear speakers.

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

CUSTOM AIR CONDITIONING (ACCESSORY)

Air cooling unit dealer-installed beneath instrument panel. Manually controlled by two knobs: Upper knob for cool air volume, and 3-speed twin centrifugal blower; lower knob for cool/warm temperature control. Two front grille louver outlets, two round side outlets.

BASIC COMPONENTS

Evaporator and blower, compressor, condenser, receiver-dehydrator.

EQUIPMENT

It is recommended that heavy duty cooling equipment be used on all vehicles for securing maximum air conditioning performance.

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 MODEL 13857

SEAT TRIM		INTERIOR COLORS AND RPO TRIM NUMBERS						
Bench	Bucket	Black	Saddle	Dark Green	Blue	Dark Blue	Gold	Sandalwood
Knitcloth		748		780		767		
Cloth					758		774	792
	Knitcloth	749						
	Vinyl	757	769					
	Vinyl			784				

VINYL ROOF COLORS					RPO	EXTERIOR COLOR							
Black	White	Dark Blue	Dark Green	Dark Gold			Black	Saddle	Dark Green	Blue	Dark Blue	Gold	Sandalwood
X	X				19	Tuxedo Black	X	X	X	X	X	X	X
X	X	X	X		10	Classic White	X	X	X	X	X	X	X
X	X	X			14	Cortez Silver	X	X	X	X	X		X
X	X				75	Cranberry Red	X	X					X
X	X				78	Black Cherry	X	X					X
X	X			X	55	Champagne Gold	X	X	X		X		X
X	X			X	58	Autumn Gold	X	X	X		X		X
X	X			X	50	Gobi Beige	X	X	X		X		X
X	X				63	Desert Sand	X	X					X
X	X		X		45	Green Mist	X	X	X				X
X	X		X		48	Forest Green	X	X	X		X		X
X	X				34	Misty Turquoise	X						X
X	X	X			25	Astro Blue	X			X	X		X
X	X	X			28	Fathom Blue	X			X	X		X
X					17	Shadow Gray	X	X	X	X	X		X

RPO	TWO-TONES											
	Lower	Upper	Black	Saddle	Dark Green	Blue	Dark Blue	Gold	Sandalwood			
25-10	Astro Blue	Classic White	X			X	X		X			
34-10	Misty Turquoise	Classic White	X						X			
25-28	Astro Blue	Fathom Blue	X			X	X		X			
28-25	Fathom Blue	Astro Blue	X			X	X		X			
55-10	Champagne Gold	Classic White	X	X	X			X	X			
58-10	Autumn Gold	Classic White	X	X	X			X	X			
63-10	Desert Sand	Classic White	X	X					X			

EXTERIOR-INTERIOR COLORS

WINDSHIELD PILLAR MOLDING COLORS

INTERIOR TRIM COLORS	PILLAR MOLDING COLOR
Black	Black
Medium Blue	Dark Blue
Dark Blue	Dark Blue
Medium Saddle	Dark Saddle
Dark Green	Dark Green
Medium Gold	Dark Gold
Medium Sandalwood	Dark Sandalwood

SEAT BELT AND SHOULDER BELT COLORS

INTERIOR TRIM	STANDARD (a)	DELUXE (b)
	Seat Belts, Shoulder Belts, Roof Rail Retainer, Belt Retractor Colors	
Black	Black	Black
Medium Blue	Dark Blue	Dark Blue
Dark Blue	Dark Blue	Dark Blue
Medium Saddle	Black	Medium Saddle
Dark Green	Dark Green	Dark Green
Medium Gold	Medium Gold	Medium Gold
Medium Sandalwood	Black	Medium Sandalwood

(a) Seat Belt and Shoulder Belt Buckles are plastic, same color as belts.

(b) Seat Belt and Shoulder Belt Buckles are brushed finish (includes Passenger - Driver Mini-Buckle).

BODY CONSTRUCTION AND GLASS AREA

GENERAL

Type Unisteel, with cowl, roof, underbody and body panels welded to form body shell. Front and rear lids are of double-panel construction and hinge assembled to body. Separate frame and bolt-on front end sheet metal, with protective inner plastic fender skirts. Side guard door beams. Air gap design

- windshield pillar molding. Contoured windshield header. Cargo guard luggage barrier.

DOORS AND LOCKS

Door construction Double steel panels, hinged at front

Door handles Push-button with fork type door locks. Inside push-button locks and 2-position free-wheeling inside door handles on both doors.

Front door glass Full window

HOOD AND TRUNK LID

Type Counterbalanced, with spring loaded toggle action hinges on rear of hood and boxed hinges on trunk lid with torsion rod. Two hood stop pins mounted on cowl.

VENTILATION

High level air intake for passenger compartment with double wall plenum chamber, providing washing and air drying of rocker panels for corrosion resistance. Air and water travel through rocker panels and drain at end of rocker inner panels. Astro Ventilation with instrument panel outlets standard.

SEAT CONSTRUCTION

Type

Front seat cushion 2.00 polyfoam

Rear seat cushion 1.75 polyfoam

WINDSHIELD WIPERS

Type Concealed dual 2-speed electric

Linkage Parallel acting with articulated left arm.

SPARE TIRE MOUNT

Location Horizontal, RH side of trunk floor. Tools consist of bumper jack with combination lever handle and wheel nut wrench stored under tire.

● BODY GLASS VISIBILITY AREA

Windshield	1208.7
Front Door Window	936.8
Rear Quarter Window	288.6
Rear Window	1059.4
Total Area (Sq. In.)	3493.5

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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. Center sections except convertible are Channel sections; convertible has welded box construction members. Rear axle kickup box welded construction. Rear of kickup: Channel section. Body Mounting: Convertible - 12 biscuits; sport coupe-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 bearing7493-.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	0° to P1°
Caster	N 1-1/2° to N 1/2°
Toe (Total)	1/8 in. to 1/4 in., toe-in
S.A.I.	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 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	Assembly Code	Cut-Off Length	Wire Dia.	Total Coils	Deflection Rate (lbs per inch)	HEIGHTS	
						Free	Working (In. @ lbs.)
3952802	AF	133.95	.583	10.12	250	17.17	11.7 @ 1360
3952803	AH	134.05	.583	10.12	250	17.45	11.7 @ 1430
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
3952807	AQ	153.45	.610	11.52	250	18.57	11.7 @ 1710
3974684	GD	160.82	.617	11.92	250	18.85	11.7 @ 1780
3952811	GI	140.05	.607	10.52	275	17.62	11.7 @ 1620
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

STEERING, DRIVELINE, WHEELS AND TIRES

MANUAL STEERING, REGULAR PRODUCTION

Description Semi-reversible, recirculating ball nut gear; and a collapsible steering column for safety. Tilt steering wheel optional.

Ratios Gear, 24:1; overall, 27.9:1

Turning diameters (ft)

 Outside front, wall to wall 45.5

 Outside front, curb to curb 116 WB-42

 Inside rear, wall to wall

 Inside rear, curb to curb

Number of wheel turns, lock to lock 5.2

Outside wheel angle with inside wheel @ 20° 18.6°

Linkage Parallelogram, front of wheels, 2 tie rods

POWER STEERING, RPO N40

(Same as standard Manual Steering except as shown)

Type Integral gear, with vane-type pump driven by crankshaft pulley providing hydraulic pressure

Ratio Gear, 16.0:1/12.4; overall, 18.7

Number of wheel turns, lock to lock 2.9

DRIVELINE

Type Tubular, exposed

Number used One

Diameter (O.D.) 3.25

Length (C/L of U-Joints)

 for manual transmissions 55.73

Wall thickness065

Universal joints

 Type Cross

 Number used Two

Bearings Prepack, anti-friction

Drive and torque Through rear

WHEELS, REGULAR PRODUCTION (DISC BRAKES)

Type Short spoke spider

Attachment to hub 5 Hex nuts, 7/16-20 UNF 2-B, on a 4.75 diameter bolt circle

Size 15 x 6

Offset 0.85

WHEELS, RALLY-TYPE, RPO ZJ7

(Same as regular production except as follows)

Type Short spoke spider with large ventilation slots

Size 15 x 7

Offset 0.30

TIRES, REGULAR PRODUCTION

Construction Fiberglass bias belted

Load Range B

Sizes

 G78 x 15 (Except models with 454 CID engines)

 Static loaded radius 12.82

 Loaded rev/mi. 749

 Capacity @ 24 psi N/A

 G70 x 15 (Models with 454 CID engines)

 Static loaded radius N/A

 Loaded rev/mi @ 45 mph 745

 Capacity @ 24 psi N/A

REAR AXLE AND SUSPENSION

REAR AXLE

Description Semi-floating housing consists of two welded tubes pressed into crossbore of cast iron carrier. Carrier contains an overhung pinion and hypoid gear supported by two taper roller bearings.

Pinion offset (Vert) 1.50

Hypoid gear PD

2.73, 3.08, 3.36 8.125

2.73, 3.31 8.875

Pinion bearing adjustment Shim

Lubricant

Type Military Spec. MIL-L-2105-B

Viscosity SAE80

Capacity (pts) 8.125 hypoid gear ----- 3.75

8.875 hypoid gear ----- 4.25

AXLE SHAFT

Type Forged and hardened steel with integral drive flange

Wheel bearings Single row cylindrical roller, one per wheel

Oil seal Steel encased spring loaded synthetic rubber

RING AND PINION GEAR TOOTH COMBINATIONS

8.125 Ring Gear Diameter

2.73:1 ratio 41, 15

3.08 37, 12

3.36 37, 11

8.875 Ring Gear Diameter

2.73 41, 15

3.31 43, 13

POSITRACTION DIFFERENTIAL (See Power Trains)

Type Two pinion with single disk clutch

REAR SUSPENSION

Description Link type; 2 upper and 2 lower control arms supporting rear axle. Drive and torque taken through control arms.

Wheel travel (design)

Total 8.80

Jounce 3.59

Rebound 5.21

Wheel to spring, travel ratio 1.06

SHOCK ABSORBERS

Type Direct, double-acting, hydraulic; air booster type for Sedan Pickup.

Piston diameter 1.00

REAR SPRINGS

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

REAR SPRING SPECIFICATIONS

Part Number	Assembly Code	Cut-Off Length	Wire Dia.	Total Coils	Deflection Rate (lbs per inch)	HEIGHTS	
						Free	Working (In. @ lbs.)
3952827	BL	92.6	.539	5.65	130	12.77	9.00 @ 490
3952828	BM	92.6	.539	5.65	130	13.08	9.00 @ 530
3952829	BP	92.7	.539	5.65	130	13.46	9.00 @ 580

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 3.53
 Hydraulic 28.31
 Overall 99.93
 Total effective lining area, disc and drum 106.1
 Gross lining area, disc and drum 118.1

Disc

Diameter 11.0
 Material Cast iron
 Swept area per disc 106.4
 Swept disc and drum area 332.4

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
 Total effective area per lining 9.5
 Gross lining area per lining 10.6

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

Primary17
 Secondary20

Master Cylinder

Piston diameter 1.125
 Piston travel (with available pedal travel) 1.44

Wheel Cylinders

Front Calipers

Number per wheel 1
 Diameter 2.9375

Rear Drums

Diameter875
 Foot pedal travel 5.08
 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 68.2

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	Column 1-194	2
	Floor console 2-1445	1
Back-up	2-1156	32
Brake warning - Alarm	1-194	2
Courtesy		
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	1-1895	2
Headlamp	2-6012A	High beam 60W
		Low beam 50W
Headlamp hi-beam indicator	1-194	2
Heater controls	1-1445	1
Instrument cluster	10-194	2
License plate, rear	1-67	4
Luggage compartment	1-1003	15
Oil pressure indicator	1-194	2
Parking		
Park	2-1157	3
Turn		32
Radio	1-1893	2
Side marker - Front	2-194	2
Side marker - Rear	2-194	2
Spot lamp - Portable	1-4416	30W
Tail		
Tail	2-1157	3
Stop and turn		32
Temperature indicator	1-194	2
Underhood	1-93	15

FUSES AND CIRCUIT BREAKERS

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT*
Air conditioning	AGC 25 fuse	In line
	AGC 25 fuse	Fuse panel (g)
Auto. trans. position pattern lamp	AGC 20 fuse	Fuse panel (c)
Back-up lamps	AGC 20 fuse	Fuse panel (d)
Cigarette lighter	AGC 20 fuse	Fuse panel (b)
Clock	AGC 20 fuse	Fuse panel (b)
Clock lamp (with tachometer option)	AGC 4 fuse	Fuse panel (c)
Courtesy lamps	AGC 20 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 20 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 20 fuse	Fuse panel (b)
Headlamps	15 and CB	Light switch
Headlamps hi-beam indicator lamp	15 amp CB	Light switch
Heater	AGC 10 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 CB	Light switch
Power seats	40 amp CB	Hinge pillar
Power windows	40 amp CB	Hinge pillar
Radio and radio lamp	AGC 10 fuse	Fuse panel (e)
Side Marker lamp - Front	AGC 20 fuse	Light switch
Side Marker lamp - Rear	AGC 20 fuse	Light switch
Spot lamp Portable	AGC 20 fuse	Fuse panel (b)
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 20 fuse	In line
Windshield wiper, two-speed	SAE 20 fuse	Fuse panel (f)
	14 amp CB	Switch

* Letter suffix indicates same circuit

POWER TRAINS

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POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	MODEL APPLICATION	AXLE RATIOS*	
			STD.	A/C
Turbo-Fire 350 350 Cubic Inch V-8 250 HP Standard	3-Speed (2.54:1 low)	All Models	3.08:1	3.08:1
	Powerglide		3.08:1	3.08:1
	Turbo Hydra-Matic		2.73:1	2.73:1
	4-Speed (2.54:1 low)		3.36:1	3.36:1
Turbo-Fire 350 350 Cubic Inch V-8 300 HP RPO L48	4-Speed (2.52:1 low)	All Models	3.31:1	3.31:1
	Powerglide		2.73:1	2.73:1
	Turbo Hydra-Matic		2.73:1	2.73:1
Turbo-Fire 400 400 Cubic Inch V-8 265 HP RPO LF6	4-Speed (2.52:1 low)	All Models	3.31:1	3.31:1
	Turbo Hydra-Matic		2.73:1	2.73:1
Turbo-Jet 400 402 Cubic Inch V-8 330 HP RPO LS3	4-Speed (2.52:1 low)	All Models	3.31:1	3.31:1
	Turbo Hydra-Matic		3.31:1	3.31:1
Turbo-Jet 454 454 Cubic Inch V-8 360 HP RPO LS5	Turbo Hydra-Matic	All Models	3.31:1	3.31:1

*—Positraction axles available optionally for all ratios

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSIONS

ENGINE	CARBURETION	TRANSMISSION	TOTAL GEAR REDUCTION*					AXLE RATIO
			1st	2nd	3rd	4th	Rev	
350 Cu. In. V-8 250 HP Standard	2-Barrel	3-Speed	7.82	4.62	3.08		8.10	3.08
		4-Speed	8.53	6.05	4.84	3.36	8.53	3.36
350 Cu. In. V-8 300 HP RPO L48	4-Barrel	4-Speed	8.34	6.22	4.83	3.31	8.57	3.31
400 Cu. In. V-8 265 HP RPO LF6	2-Barrel	4-Speed	8.34	6.02	4.83	3.31	8.57	3.31
402 Cu. In. V-8 330 HP RPO LS3	4-Barrel	4-Speed (2.20:1)	8.34	6.22	4.83	3.31	8.57	3.31

WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
350 Cu. In. V-8 250 HP 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-8 300 HP RPO L48	Powerglide	Drive	10.10:1 - 2.73:1	2.73:1
		Low & Reverse	10.10:1 - 4.80:1	
	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	
400 Cu. In. V-8 265 HP RPO LF6	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-8 330 HP RPO LS3	Turbo Hydra-Matic	Reverse	11.06:1 - 5.27:1	3.31:1
		Drive	17.25:1 - 3.31:1	
		Low	17.25:1 - 8.21:1	
		Second	17.25:1 - 4.90:1	
454 Cu. In. V-8 360 HP RPO LS5	Turbo Hydra-Matic	Reverse	14.46:1 - 6.88:1	3.31:1
		Drive	17.25:1 - 3.31:1	
		Low	17.25:1 - 8.21:1	
		Second	17.25:1 - 4.90:1	

* Axle ratio x transmission ratio.

ENGINE DATA AND RATINGS

GENERAL DATA

Engine Type		V-8 OHV			
Piston Displacement (Cu.In.)		350	400	402	454
Availability		Standard	L48	LF6	LS3
Number of Cylinders		Eight			
Bore (nominal)		4.00	4.125	4.126	4.251
Stroke (nominal)		3.48	3.75	3.76	4.00
Compression Ratio		9.00:1		10.25:1	
Taxable (SAE) Horsepower		51.2	54.4	54.5	57.8
Firing Order		1-8-4-3-6-5-7-2			
Idling Speed	3-Speed & 4-Speed (in neutral)	750	700		
	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	30.69	33.97
	Top of air cleaner to bottom of oil pan	29.29	26.79	29.29	27.62
	Width - including air cleaner	27.34	27.97	27.34	30.00

ADVERTISED ENGINE RATING

Engine Designation	Turbo-Fire 350 V-8 250 HP	Turbo-Fire 350 V-8 300 HP	Turbo-Fire 400 V-8 265 HP	Turbo-Jet 400 V-8 330 HP	Turbo-Jet 454 V-8 360 HP
Availability	Standard	RPO L48	RPO LF6	RPO LS3	RPO LSS
Carburetor	Two Barrel	Four Barrel	Two Barrel	Four Barrel	Four Barrel
Gross Brake HP @ RPM	250 @ 4800	300 @ 4800	265 @ 4400	330 @ 4800	360 @ 4400
Gross Torque @ RPM (lb-ft)	345 @ 2800	380 @ 3200	400 @ 2400	410 @ 3200	500 @ 3200

ENGINE SPEED AND PISTON TRAVEL

TURBO-FIRE 350 V-8 ENGINE

Transmission	3-Speed	4-Speed	Powerglide	Turbo Hydra-Matic
Rear Axle Ratio	3.08:1	3.36:1	3.08:1	2.73:1
Tire Size	G78 x 15			
Crankshaft Revolutions per Mile	2310.0	2520.0	2310.0	2047.5
Crankshaft RPM @ 1 MPH	Low	97.8	106.7	67.8
	Second	57.5	75.6	38.5 (direct)
	Third	38.5	60.5	38.5 (direct)
	Fourth		42.0	
	Reverse	101.3	106.7	67.8
Piston Travel (ft/mile)	1339.8	1461.2	1339.9	1187.6

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

Transmission	4-Speed	Powerglide	Turbo Hydra-Matic
Rear Axle Ratio	3.31:1		2.73:1
Tire Size	G78 x 15		
Crankshaft Revolutions per Mile	2482.5		2047.5
Crankshaft RPM @ 1 MPH	Low	104.3	60.1
	Second	77.8	34.1 (direct)
	Third	60.4	34.1 (direct)
	Fourth	41.4	
	Reverse	107.2	60.1
Piston Travel (ft/mile)	1439.9		1187.6

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

Transmission	4-Speed	Turbo Hydra-Matic
Rear Axle Ratio	3.31:1	2.73:1
Tire Size	G78 x 15	
Crankshaft Revolutions per Mile	2482.5	2047.5
Crankshaft RPM @ 1 MPH	Low	104.3
	Second	77.8
	Third	60.4
	Fourth	41.4
	Reverse	107.2
Piston Travel (ft/mile)	1551.6	1279.7

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

Transmission	4-Speed	Turbo Hydra-Matic
Rear Axle Ratio	3.31:1	
Tire Size	G78 x 15	
Crankshaft Revolutions per Mile	2482.5	
Crankshaft RPM @ 1 MPH	Low	104.3
	Second	77.8
	Third	60.4
	Fourth	41.4
	Reverse	107.2
Piston Travel (ft/mile)		1555.7

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

Transmission	Turbo Hydra-Matic
Rear Axle Ratio	3.31:1
Tire Size	G70 x 15
Crankshaft Revolutions per Mile	2492.4
Crankshaft RPM @ 1 MPH	Low
	Second
	Third
	Reverse
Piston Travel (ft/mile)	1661.6

VEHICLE PERFORMANCE FACTORS

ENGINE	BASE 350 CU.IN. 250 HP	RPO L48 350 CU.IN. 300 HP	RPO LF6 400 CU.IN. 265 HP	RPO LS3 402 CU.IN. 330 HP	RPO LS5 454 CU.IN. 360 HP
MODEL	13857	13857	13857	13857	13858

3-SPEED TRANSMISSION

Performance Weight (pounds)	4060				
Pounds per Gross Horsepower	16.24				
Pounds per Cu.In. Displacement	11.57				
Gross HP per Cu.In. Displacement	.713				
Power Displacement (cu.ft./mile)	233.93				
Displacement Factor (cu.ft./ton mile)	115.24				

4-SPEED TRANSMISSION

Performance Weight (pounds)	4078	4075	4075	4266	
Pounds per Gross Horsepower	16.31	13.45	15.36	12.93	
Pounds per Cu.In. Displacement	11.62	16.61	10.19	10.61	
Gross HP per Cu.In. Displacement	.713	.855	.663	.821	
Power Displacement (cu.ft./mile)	255.20	251.40	287.32	287.32	
Displacement Factor (cu.ft./ton mile)	125.10	123.24	140.16	134.89	

TURBO HYDRA-MATIC

Performance Weight (pounds)	4088	4096	4100	4308	4314
Pounds per Gross Horsepower	16.35	13.52	15.46	12.93	11.98
Pounds per Cu.In. Displacement	11.65	11.62	10.25	10.72	9.50
Gross HP per Cu.In. Displacement	.713	.855	.663	.821	.792
Power Displacement (cu.ft./mile)	207.30	207.36	236.98	287.32	327.46
Displacement Factor (cu.ft./ton mile)	101.62	101.15	116.67	133.64	151.57

POWERGLIDE

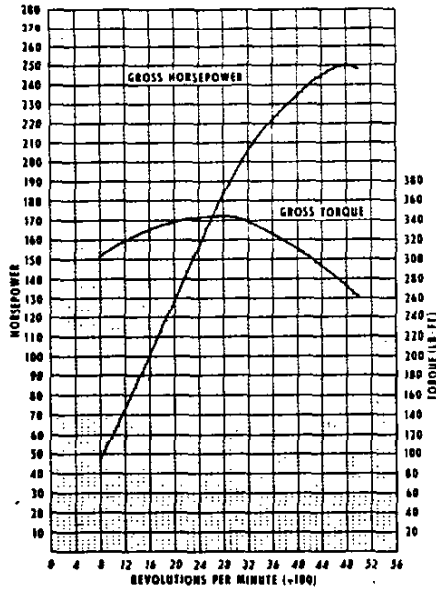
Performance Weight (pounds)	4062	4069			
Pounds per Gross Horsepower	16.25	13.43			
Pounds per Cu.In. Displacement	11.58	11.60			
Gross HP per Cu.In. Displacement	.713	.855			
Power Displacement (cu.ft./mile)	233.93	207.36			
Displacement Factor (cu.ft./ton mile)	115.24	102.15			

GLOSSARY

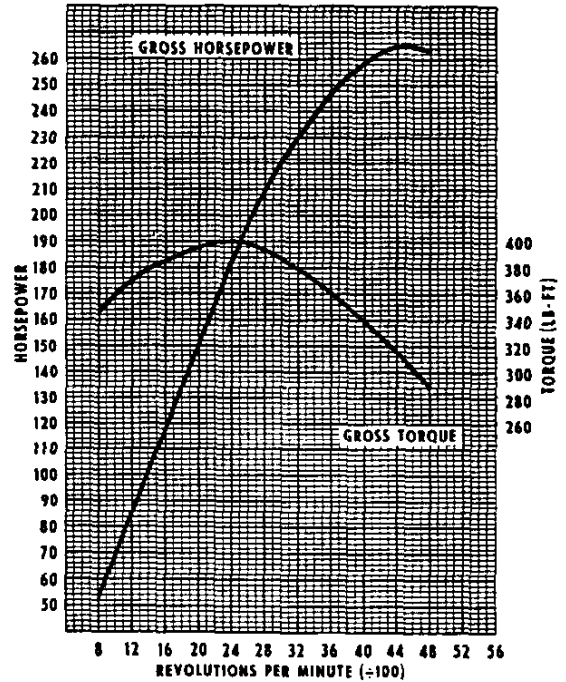
Performance Weight	Curb Weight plus 600 LB (weight of four 150 lb passengers)
Power Displacement	$\frac{\text{Crankshaft Revs/Mi} \times \text{Piston Displacement}}{2 \times 1728}$
Displacement Factor	$\frac{\text{Power Displacement}}{\text{Performance Wt (tons)}}$

ENGINE OUTPUT CURVES

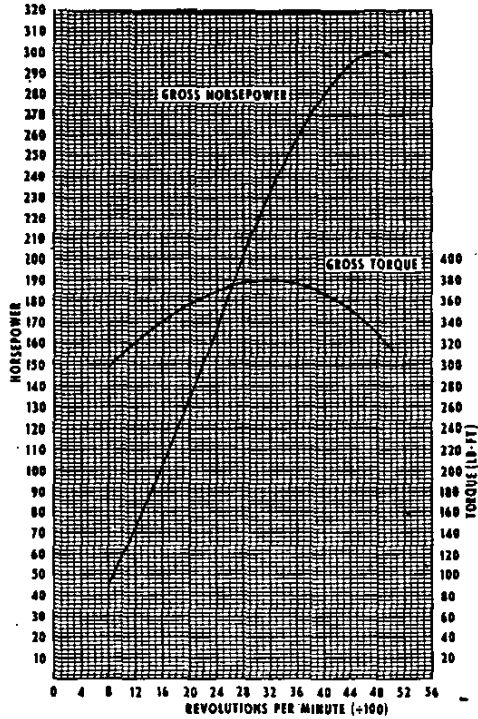
250 HP TURBO-FIRE V-8



●265 HP TURBO-FIRE V-8



300 HP TURBO-FIRE V-8



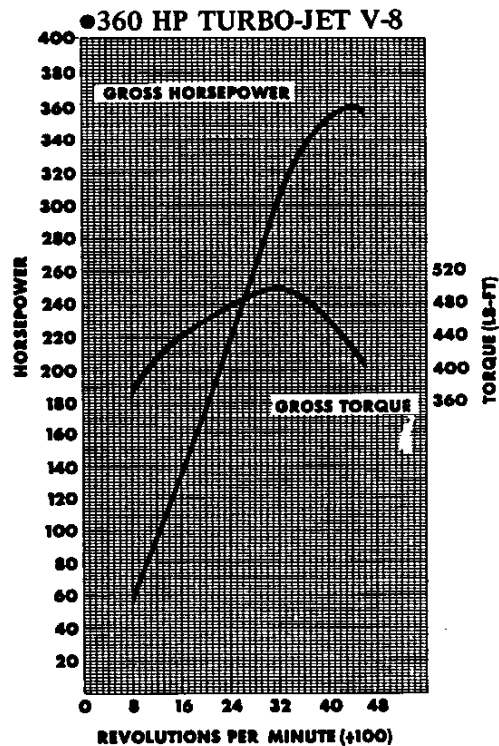
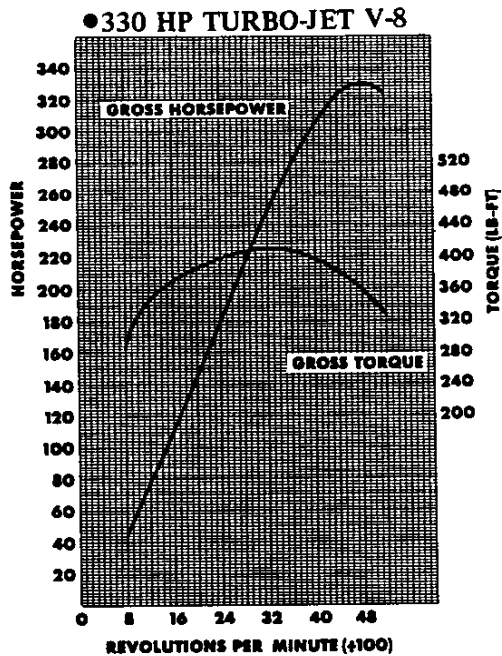
The engine output curves represent full throttle performance is obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and standard temperature of 60 degrees F.

GROSS POWER and TORQUE were obtained in a regular dynamometer test with the dynamometer exhaust system,

no fan, generator not charging, optimum spark advance, and optimum fuel setting.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle, except the generator is not charging.

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PRINCIPAL COMPONENTS

CYLINDER BLOCK

Material	Cast alloy iron
Bore diameter	
V8-350 Cu.In.	3.9995-4.0025
V8-400 Cu.In. (RPO LF6)	4.1245-4.1275
V8-402 Cu.In. (RPO LS3)	4.1246-4.1274
V8-454 Cu.In.	4.2496-4.2524
No. of Bulkheads	
L6	7
V8	5
Water Jacket	Full length around each cylinder
Cylinder Numbering Arrangement	
L6	1-2-3-4-5-6
V8	Left Bank 1-3-5-7 Right Bank 2-4-6-8
Bore Spacing (Centerline to Centerline)	
V8-350 & 400 (LF6) Cu.In.	4.4
V8-402 (LS3) & 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.
V8-400 (LF6) Cu.In.	34; .4375 dia. 14 threads/in.
V8-402 (LS3) 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.	5.62 Cu.In.
V8-350 Cu.In. (RPO L48)	4.83 Cu.In.
V8-400 Cu.In. (RPO LF6)	6.34 Cu.In.
V8-402 Cu.In. (RPO LS3)	5.70 Cu.In.
V8-454 Cu.In.	6.31 Cu.In.

INLET MANIFOLD

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

EXHAUST MANIFOLD

Material	Cast alloy iron
Type	
V8-350 & 400 (LF6) Cu.In.	Dual, 4 port, center takedown
V8-402 (LS3) & 454 Cu.In.	Dual, 4 port, rear takedown
Outlet Diameter (Nominal)	
V8-350 & 400 (LF6) Cu.In.	2.0
V8-402 (LS3) & 454 Cu.In.	2.5

CRANKSHAFT

Material	
V8-350, 400 & 402 Cu.In.	Cast nodular iron
V8-454 Cu.In.	Forged steel
End Play	
V8-350 & 400 (LF6) Cu.In.	.002-.006
V8-402 (LS3) & 454 Cu.In.	.006-.010
Counter Weights	
L6	12
V8	6
Crank Arm Length	
V8-350 Cu.In.	1.74
V8-400 & 402 Cu.In.	1.88
V8-454 Cu.In.	2.00
Torsional Damper	Rubber mounted inertia
Timing Gear	
L6	Steel, helical cut
V8	Steel; sprocket & chain
Pulley Pitch Diameter	6.64

MAIN BEARINGS

Material	Steel backed insert; (copper lead alloy or premium aluminum lining selected for specific engine application)
Type	Precision removable
Thrust Against Bearing	No. 5
Clearance	
V8-350 & 400 Cu.In. (RPO LF6)	
No. 1	.0008-.0020
No. 2, 3 & 4	.0011-.0023
No. 5	.0017-.0033
V8-402 (RPO LS3) & 454 Cu.In.	
No. 1	.0007-.0019
No. 2, 3 & 4	.0013-.0025
No. 5	.0019-.0035

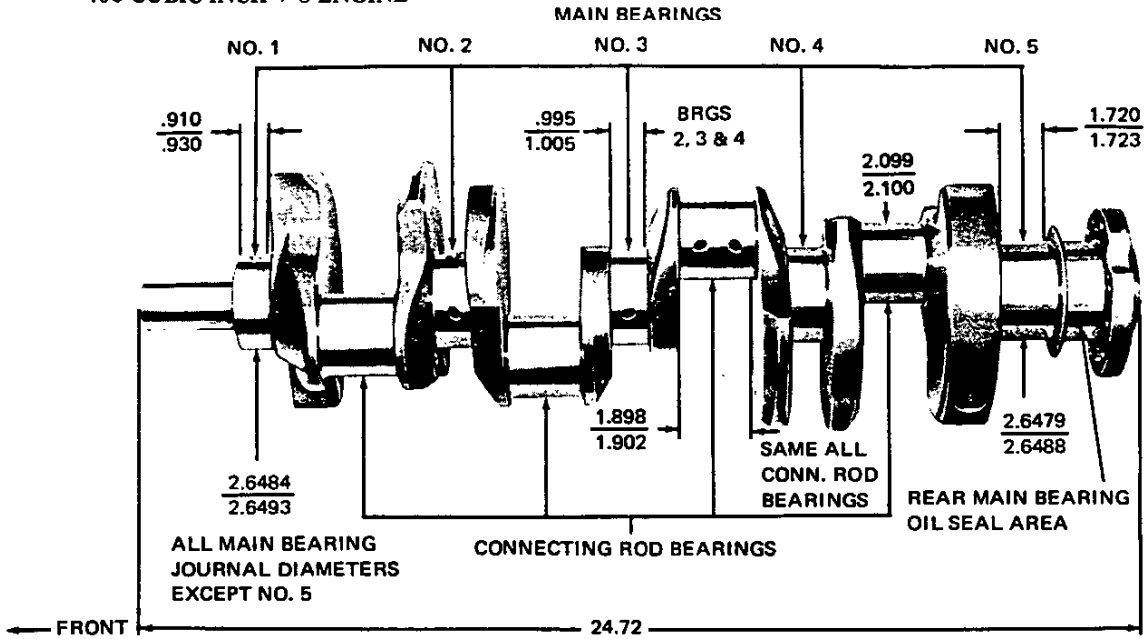
Dimensions

	Theoretical Inner Dia.	Effective Length	Projected Area
V8-350 Cu.In.			
Bearing No. 1	2.4502	.752	1.8425
Bearing No. 2, 3 & 4	2.4505	.752	1.8428
Bearing No. 5	2.4508	1.177	2.8846
V8-400 Cu.In. (RPO LF6)			
Bearing No. 1	2.6503	.752	1.9930
Bearing No. 2, 3 & 4	2.6506	.752	1.9933
Bearing No. 5	2.6509	1.177	3.1201
V8-402 Cu.In. (RPO LS3)			
Bearing No. 1	2.7509	.992	2.7287
Bearing No. 2	2.7510	.992	2.7290
Bearing No. 3 & 4	2.7505	.992	2.7285
Bearing No. 5	2.7510	1.2525	3.4456
V8-454 Cu.In.			
Bearing No. 1	2.7503	.992	2.7283
Bearing No. 2, 3 & 4	2.7505	.992	2.7285
Bearing No. 5	2.7510	1.2525	3.4457

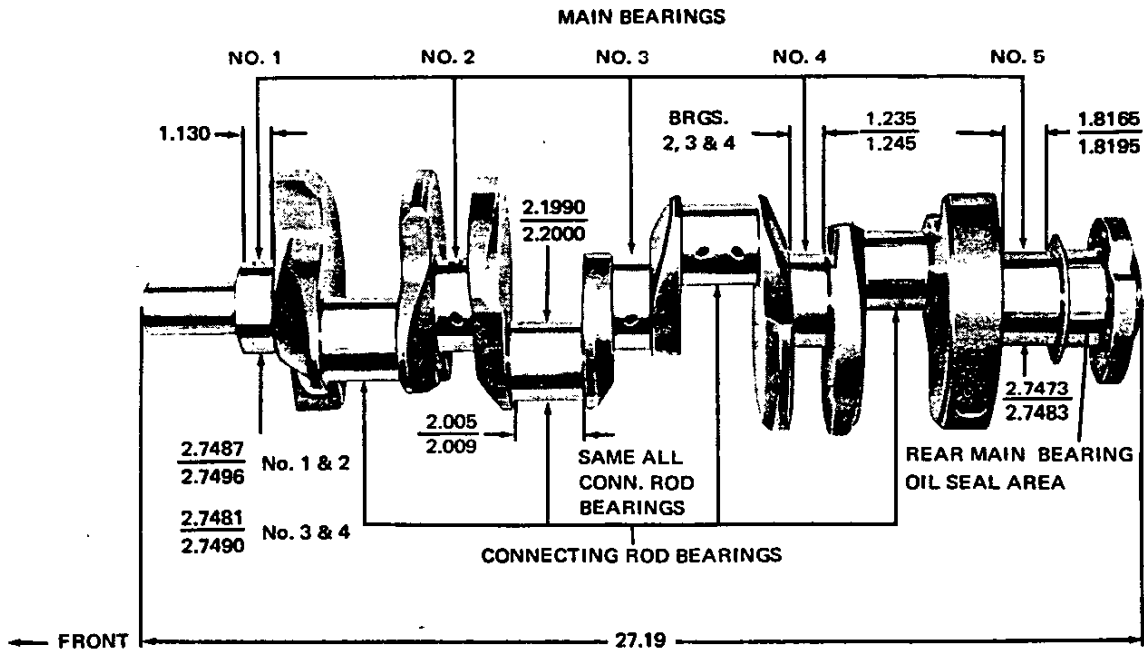
PRINCIPAL COMPONENTS

CRANKSHAFTS AND BEARINGS

400 CUBIC INCH V-8 ENGINE



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
V8-400 Cu.In. (LF6)	.2600 Inlet; .2733 Exhaust
V8-402 Cu.In. (LS3)	.2343 Inlet & Exhaust
V8-454 Cu.In. (LS5)	.2714 Inlet; .2824 Exhaust
Bearings	Steel backed babbitt

VALVE TRAIN

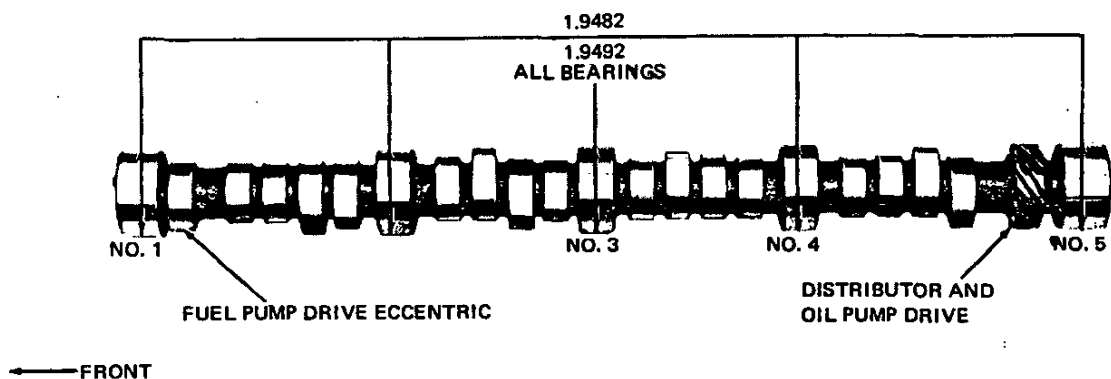
Type	Individually mounted, overhead rocker arms, push rod actuated
Lifters	Hydraulic
Push Rods	
Type	Hollow steel
Ends	
V8-350 & 400 (LF6) Cu.In.	Hardened
V8-402 (LS3) & 454 Cu.In.	Hardened steel inserts
Rocker Arms	
Material	Stamped steel
Ratio	
L6-250 Cu.In.	1.75:1
V8-350 & 400 (LF6) Cu.In.	1.50:1
V8-402 (LS3) & 454 Cu.In.	1.70:1

VALVE SPRINGS

Diameter (I.D.)	
L6-250 Cu.In.	.872-.888
V8-350 & 400 (LF6) 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	
L6-250 Cu.In.	56-64 @ 1.66
V8-350 & 400 (LF6) Cu.In.	76-84 @ 1.70
V8-402 (LS3) & 454 Cu.In.	
-Outer spring	69-81 @ 1.88
-Inner spring	26-34 @ 1.78
Valves Opened	
L6-250 Cu.In.	180-192 @ 1.27
V8-350 & 400 (LF6) Cu.In.	194-206 @ 1.25
V8-402 (LS3) & 454 Cu.In.	
-Outer spring	228-252 @ 1.38
-Inner spring	81-99 @ 1.28
Free Length	
L6-250 Cu.In.	1.90
V8-350 & 400 (LF6) Cu.In.	2.03
V8-402 (LS3) & 454 Cu.In.	
-Outer spring	2.12
-Inner spring	2.06
Valve Spring Damper	
L6-250 Cu.In.	None
V8-350 Cu.In.	Flat steel, 4 coils
V8-400 (LF6) Cu.In.	Flat steel, 4 coils

CAMSHAFT AND BEARINGS

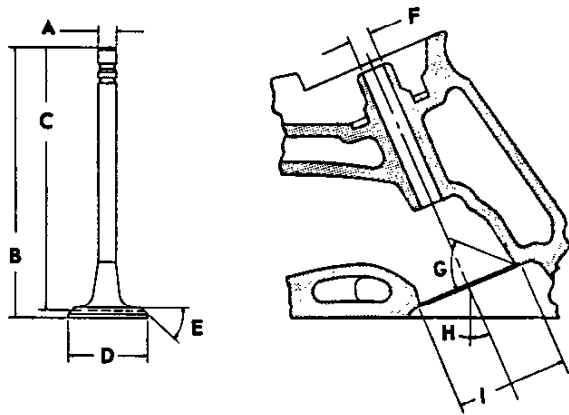
V8-402 and 454 V-8 ENGINES



PRINCIPAL COMPONENTS

VALVES - INLET

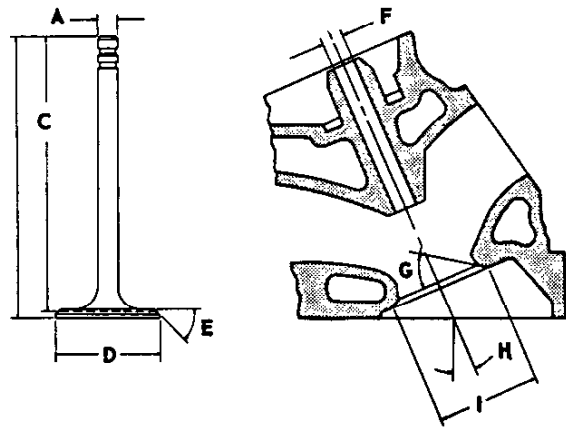
Material	Alloy steel
Coating	
V8-350 Cu.In.	None
V8-400 (LF6) Cu.In.	Aluminized face
V8-402 (LS3) & 454 Cu.In.	Face & head aluminized
Valve Guide Inserts (LS3 & LS5)	Cast alloy iron



A - Stem Diameter	
V8-350 & 400 (LF6) Cu.In.	.3410-.3417
V8-402 (LS3) & 454 Cu.In.	.3715-.3722
B - Overall Length	
V8-350 & 400 (LF6) Cu.In.	.4870-4.889
V8-402 (LS3) & 454 Cu.In.	5.215-5.235
C - Gage Length	
V8-350 & 400 (LF6) Cu.In.	4.785-4.795
V8-402 (LS3) & 454 Cu.In.	5.115-5.125
D - Overall Head Diameter	
V8-350 & 400 (LF6) Cu.In.	1.935-1.945
V8-402 (LS3) & 454 Cu.In.	2.060-2.070
E - Angle of Face	45°
F - Guide Diameter	
V8-350 & 400 (LF6) Cu.In.	.3427-.3437
V8-402 (LS3) & 445 Cu.In.	.3732-.3742
G - Angle of Seat	46°
H - Valve Angle	
V8-350 & 400 (LF6) Cu.In.	23°
V8-402 (LS3) & 454 Cu.In.	4°
I - Valve Seat (Cutter) Diameter	
V8-350 & 400 (LF6) Cu.In.	1.990-2.010
V8-402 (LS3) & 454 Cu.In.	2.150

VALVES - EXHAUST

Material	High alloy steel
Coating	
V8-350 & 400 (LF6) Cu.In.	Aluminized face
V8-402 (LS3) & 454 Cu.In.	Face & head aluminized
Valve Guide Inserts (LS3 & LS5)	Cast alloy iron



A - Stem Diameter	
V8-350 & 400 (LF6) Cu.In.	.3410-.3417
● V8-402 (LS3) & 454 Cu.In.	.3713-.3720
B - Overall Length	
V8-350 & 400 (LF6) Cu.In.	4.913-4.933
V8-402 (LS3) & 454 Cu.In.	5.345-5.365
C - Gage Length	
V8-350 & 400 (LF6) Cu.In.	4.781-4.791
V8-402 (LS3) & 454 Cu.In.	5.235-5.245
D - Overall Head Diameter	
V8-350 Cu.In.	1.495-1.505
V8-400 (LF6) Cu.In.	1.595-1.605
V8-402 (LS3) & 454 Cu.In.	1.715-1.725
E - Angle of Face	45°
F - Guide Diameter	
V8-350 & 400 (LF6) Cu.In.	.3427-.3437
V8-402 (LS3) & 454 Cu.In.	.3732-.3742
G - Angle of Seat	46°
H - Valve Angle	
V8-350 & 400 (LF6) Cu.In.	23°
V8-402 (LS3) & 454 Cu.In.	4°
I - Valve Seat (Cutter) Diameter	
V8-350 & 400 (LF6) Cu.In.	1.550-1.570
V8-402 (LS3) & 454 Cu.In.	1.625

PRINCIPAL COMPONENTS

VALVE TIMING (Crankshaft degrees)

V8-350 Cu.In.	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	28°	38°
Closes - ABC	72°	92°
Duration	280°	310°
Exhaust Valve (Zero lash)		
Opens - BBC	78°	88°
Closes - ATC	30°	52°
Duration	288°	320°

V8-400 Cu.In. (LF6)	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	28°	38°
Closes - ABC	72°	92°
Duration	280°	340°
Exhaust Valve (Zero lash)		
Opens - BBC	78°	88°
Closes - ATC	30°	52°
Duration	288°	320°

V8-402 Cu.In. (LS3)	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	28°	40°
Closes - ABC	78°	102°
Duration	286°	322°
Exhaust Valve (Zero lash)		
Opens - BBC	75°	87°
Close - ATC	31°	55°
Duration	286°	322°

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
V8-400 (LF6) Cu.In.	.3900 Inlet, .4100 Exhaust
V8-402 (LS3) Cu.In.	.3983 Inlet, .4300 Exhaust
V8-454 Cu.In. (LS5)	.4614 Inlet, .4800 Exhaust

PISTONS

Material	Cast aluminum alloy
Head Type	
V8-350 Cu.In.	Flat, notched head
V8-400 (LF6) Cu.In.	Sump, notched head
V8-402 (LS3) & 454 Cu.In.	Domed head, valve cutout
Skirt Type	Slipper
Top Land Clearance	
V8-350 Cu.In.	.0235-.0325
V8-400 (LF6) Cu.In.	.0365-.0455
V8-402 (LS3) & 454 Cu.In.	.0306-.0374
Skirt Clearance	
V8-350 Cu.In.	.0007-.0013
V8-400 (LF6) Cu.In.	.0014-.0020
V8-402 (LS3) Cu.In.	.0018-.0026
V8-454 Cu.In.	.0020-.0028
Compression Ring Groove Depth	
V8-350 Cu.In.	.2218-.2884
V8-400 (LF6) Cu.In.	.2328-.2393
V8-402 (LS3) Cu.In.	.2328-.2392
V8-454 Cu.In.	.2348-.2412
Oil Ring Groove Depth	
V8-350 Cu.In.	.2038-.2103
V8-400 (LF6) Cu.In.	.2183-.2248
V8-402 (LS3) Cu.In.	.2183-.2247
V8-454 Cu.In.	.2183-.2247
Pin Bore Offset	.055-.065
Compression Height	
V8-350 Cu.In.	1.558-1.562
V8-400 (LF6) Cu.In.	1.558-1.562
V8-402 (LS3) Cu.In.	1.940-1.944
V8-454 Cu.In.	1.691-1.699

PISTON PINS

Material	Chromium steel
Length	
V8-350 & 400 (LF6) Cu.In.	2.990-2.010
V8-402 (LS3) & 454 Cu.In.	2.930-2.950
Diameter	
V8-350 & 400 (LF6) Cu.In.	.9270-.9273
V8-402 (LS3) & 454 Cu.In.	.9895-.9898
Clearance in Piston	
V8-350 & 400 (LF6) Cu.In.	.00015-.00025
V8-402 (LS3) 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
V8-400, 402 & 454 Cu.In.	Molybdenum inlay
Width	
V8-350 Cu.In.	.0775-.0780
V8-400 & 402 Cu.In.	.0770-.0780
V8-454 Cu.In.	.0770-.0775
Wall Thickness	
V8-350 Cu.In.	.190-.200
V8-400 & 402 Cu.In.	.196-.206
V8-454 Cu.In.	.202-.212
Gap	
V8-350 & 400 Cu.In.	.010-.020
V8-402 & 454 Cu.In.	.010-.020

COMPRESSION RINGS

Material	Cast alloy iron
Type	Inside bevel (top of ring 30 degrees to piston vertical axis for L6-250, V8-350, 400 and 402; and 28°-52° for V8-454)
Face	Tapered
Coating	
V8-350 & 400 (LF6) Cu.In.	Wear resistant
V8-402 (LS3) & 454 Cu.In.	Chrome plated
Width	
V8-350 Cu.In.	.0770-.0775
V8-400 & 402 Cu.In.	.0770-.0780
V8-454 Cu.In.	.0770-.0775
Wall Thickness	
V8-350 Cu.In.	.190-.200
V8-400 & 402 Cu.In.	.196-.206
V8-454 Cu.In.	.202-.212
Gap	
V8-350 Cu.In.	.013-.025
V8-400, 402 & 454 Cu.In.	.010-.020

OIL CONTROL RINGS

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

CONNECTING RODS

Material	Drop forged steel
● Length (center to center)	
V8-350 Cu.In.	5.695-5.705
V8-400 (LF6) Cu.In.	5.560-5.570
V8-402 (LS3) & 454 Cu.In.	5.560-5.570

CONNECTING ROD BEARINGS

Material	
V8-350 & 400 Cu.In.	Premium aluminum
V8-402 (LS3) & 454 Cu.In.	Premium aluminum
Type	Precision removable
Clearance	
V8-350 & 400 (LF6) Cu.In.	.0013-.0035
V8-402 (LS3) & 454 Cu.In.	.0009-.0025
Theoretical I.D.	
V8-350 & 400 (LF6) Cu.In.	2.1019
V8-402 (LS3) & 454 Cu.In.	2.2012
Effective Length	
V8-350 & 400 (LF6) Cu.In.	.797
V8-402 (LS3) & 454 Cu.In.	.847
End Play	
V8-350 & 400 (LF6) Cu.In.	.008-.014
V8-402 (LS3) & 454 Cu.In.	.015-.023

FUEL TANK

Capacity	20 (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 & 400 Cu.In.	7.50-9.00 PSI at pump outlet
V8-402 & 454 Cu.In.	7.50-9.00 PSI at pump outlet

AIR CLEANER

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

CARBURETORS

Make and Type

V8-350 Cu.In.	
Base	Rochester, 2-barrel, downdraft
(L48)	Rochester, 4-barrel, Quadrajets
V8-400 (LF6) Cu.In.	Rochester, 2-barrel downdraft
V8-402 (LS3) & 454 Cu.In.	Rochester, 4-barrel, Quadrajets

●SAE Flange Size

V8-350 Cu.In. (base)	1.50
V8-350 (L48) Cu.In.	1.50
V8-400 (LF6) Cu.In.	1.50
V8-402 (LS3) & 454 Cu.In.	1.50

Throttle Bore

V8-350 Cu.In. (base)	1.44
V8-350 Cu.In. (L48)	
Primary	1.38
Secondary	2.25
V8-400 (LF6) Cu.In.	1.69
V8-402 (LS3) & 454 Cu.In.	
Primary	1.38
Secondary	2.25

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

●Venturi Diameter

V8-350 Cu.In. (base)	1.25
V8-350 Cu.In. (L48)	
Primary	1.04
Secondary	.625
V8-400 (LF6) Cu.In.	1.40
V8-402 (LS3) & 454 Cu.In.	
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
 V8-400 (LF6) Cu.In. Single with crossover pipes
 V8-402 (LS3) Cu.In. Dual with resonators
 V8-454 Cu.In. (RPO LS5) 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
 V8-400 (LF6) Cu.In.055 sheet steel, aluminized
 V8-402 (LS3) & 454 Cu.In.
 Left hand054 sheet steel, aluminized
 Right hand060 stainless steel

Shell

V8-350 Cu.In.035 sheet steel, zinc coated
 V8-400 (LF6) Cu.In.035 sheet steel, zinc coated
 V8-402 (LS3) & 454 Cu.In.
 Left hand036 sheet steel, zinc coated
 Right hand036 stainless steel

Wrap030 indented asbestos sheet
 Cover018 sheet steel, aluminized

Baffles

V8-350 Cu.In. No. 1 & 4-.047 zinc coated steel
 No. 2 & 3-.035 zinc coated steel
 V8-400 (LF6) Cu.In. No. 1 & 4-.047 zinc coated steel
 No. 2 & 3-.035 zinc coated steel
 V8-402 (LS3) & 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.)
 V8-350 & (LF6) 400 Cu.In. 2.00
 Wall Thickness
 V-8-350 & 400 (LF6) Cu.In. . . .072-.92 laminated

EXHAUST PIPE

Dimensions (O.D.) 2.50
 Wall Thickness072-.092 laminated

PIPE MUFFLER TO RESONATOR

V8-400 (LS3) & 454 Cu.In.
 Diameter 2.00
 Wall Thickness002-.076

RESONATORS (V8-402(LS3) & 454 Cu.In.)

Type Straight through
 Cover035 stainless steel
 Heads047 stainless steel

TAIL PIPES

Dimensions (O.D.)
 V8-350, 400 & 402 Cu.In. 1.875
 V8-454 Cu.In. Oval type extension
 Wall Thickness062-.076

EXHAUST EMISSION CONTROLS

Positive Crankcase Ventilation Utilizes
 manifold vacuum to draw off engine crankcase
 vapors through a metered PCV valve and ultimately
 to the intake system for engine reburn
 Controlled Combustion System Increases
 combustion efficiency through leaner carburetor
 adjustments and revises distributor calibration
 Transmission Controlled Spark Actually an
 expansion of the CCS system and basically retards
 engine spark advance by eliminating vacuum
 advance in all forward gears except Hi-gear.

LUBRICATION SYSTEM

GENERAL

Type Controlled full pressure
Main Bearings Pressure
Piston Pins Splash
Cylinder Walls
L6 Engine . . Main and conn. rod bearing throwoff
V8 Engines Pressure,
jet cross sprayed
Camshaft Bearings Pressure
Valve Lifters Pressure
Rocker Arms Pressure
Timing Gears 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 & 400 (LF6) Cu.In. Rearward
of left rocker cover
V8-402 (LS3) & 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 & 400 (LF6) 40 PSI @ 2000 RPM
V8-402 (LS3) & 454 40 PSI @ 2000 RPM
Intake Type Fixed pickup with screen
Capacity (GPM @ Engine RPM) (Theoretical)
V8-350 & 400 (LF6) 4.3 @ 2000
V8-402 (LS3) & 454 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 Head860-.875
Thread 1/2-20 UNF 2A
Length 0.81
Diameter410-.430

OIL DIP STICK - LOCATION

V8-350 & 400 (LF6) Left side, rear of engine block
V8-402 (LS3) & 454 Right side,
center direct to oil pan

COOLING SYSTEM

GENERAL

Type	Liquid, pressurized
Capacity with Heater (Standard Equipment)	
V8-350 (Base) Cu.In.	16 Qts.
V8-350 (L48) & 400 (LF6) Cu.In.	16 Qts.
V8-402 (LS3) Cu.In.	23 Qts.
V8-454 Cu.In.	22 Qts.

RADIATOR

Make and Type	Harrison, tube and center
Core Constant	
Distance between Fins	
V8-350 (Base) Cu.In.	.16 (Syn) .16 (Auto)
V8-350 (L48) Cu.In.	.16 (Syn) .18 (Auto)
V8-400 (LF6) Cu.In.	.16 (Syn) .22 (Auto)
V8-402 (LS3) Cu.In.	.16 (Syn) .16 (Auto)
V8-454 Cu.In.	.20 (Auto)
Distance between Tubes	.55
Thickness of core	1.26
Frontal Area (Sq.In.)	
V8-350 Cu.In.	353
V8-400 (LF6) Cu.In.	353 (Syn) 480 (Auto)
V8-402 (LS3) & 454 Cu.In.	480

RADIATOR, HEAVY DUTY (RPO V01)

Core Constant	
Distance between Fins	
V8-350 Cu.In.	.16 (Syn) .16 (Auto)
V8-400 (LF6) Cu.In.	.16 (Syn) .18 (Auto)
V8-402 (LS3) Cu.In.	.16 (Syn) .16 (Auto)
V8-454 Cu.In.	.16 (Auto)
Distance between Tubes	.55
Thickness of core	
V8-350 Cu.In.	1.26
V8-400 (LF6) Cu.In.	1.26 (Syn) 1.98 (Auto)
V8-402 (LS3) Cu.In.	1.98
V8-454 Cu.In.	1.98
Frontal Area (Sq.In.)	480

RADIATOR CAP RELIEF VALVE

Opens at Approximately 15 PSI

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	4
Diameter	
V8-350 & 400 (LF6) Cu.In.	176.62
V8-402 (LS3) & 454 Cu.In.	18.00
Fan Pulley Pitch Diameter	7.00

BELTS, CRANKSHAFT, FAN AND GENERATOR

Number Used	One
Angle of "V"	38°-42°
Pitch Line	
V8-350 & 400 (LF6) Cu.In.	44.25
V8-402 (LS3) & 454 Cu.In.	45.75
Width	.380

WATER PUMP

Type	Centrifugal
Capacity	
V8-350 Cu.In.	25 GPM @ 2000 Engine RPM
V8-400 (LF6) Cu.In.	26 GPM @ 2000 Engine RPM
V8-402 (LS3) Cu.In.	24 GPM @ 2000 engine RPM
V8-454 Cu.In.	27 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 & 400 (LF6) Cu.In.	Right and left center
V8-402 (LS3) & 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, 400 & 402 Cu.In.	2900 watts
V8-454 Cu.In.	3250
Heavy Duty (RPO T60)	3750 watts
Capacity (SAE) @ 20 hr. rate	
V8-350, 400 & 402 Cu.In.	61 amp. hr.
V8-454 Cu.In.	62 amp. hr.
Heavy Duty	76 amp. hr.
Total Number of Plates	
V8-350, 400 & 402 Cu.In.	66
V8-454 Cu.In.	78
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	12-15
Drive	By fan belt
●Pulley Pitch Diameter	2.62
●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 Cu.In.	ACR44
V8-400 Cu.In. (LF6)	ACR44
V8-402 Cu.In. (LS3)	ACR 44T
V8-454 Cu.In.	ACR43T
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

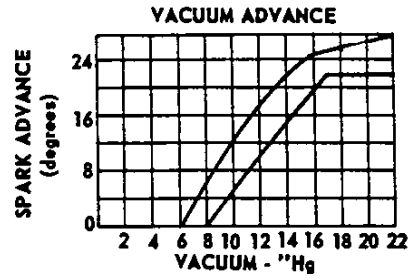
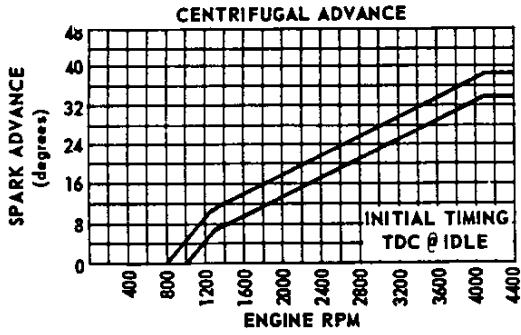
STARTING MOTOR

Rotation (Drive End View)	Clockwise
Test Conditions	Engine at operating temp.
No Load Test	
Amps	
V8-350 & 400 Cu.In. (LF6)	65-100
V8-402 (LS3) & 454 Cu.In.	70-99
Volts	10.6
RPM	
V8-350 & 400 Cu.In. (LF6)	3600-5100
V8-402 (LS3) & 454 Cu.In.	7800-12000
Motor Drive	
Engagement	Solenoid
Pinion Tooth No.	9
Flywheel Tooth No.	
V8-350 & 400 (LF6) Cu.In.	153
V8-402 (LS3) & 454 Cu.In.	168
Mounting	Bolted to cylinder block flange

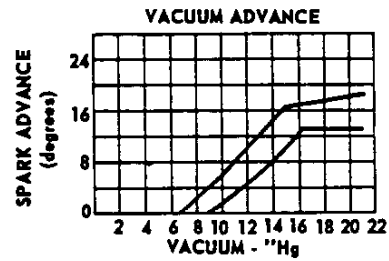
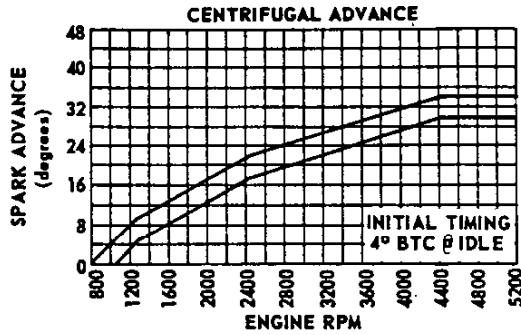
DISTRIBUTORS	Transmission	350 Cu.In.		400 Cu.In.	402 Cu.In.	454 Cu.In.
		V8-250 HP	V8-300 HP	V8-265 HP	V8-330 HP	V8-360 HP
Model	Manual	1112001	1111996	1111492	1111998	
	Automatic	1112002	1111997	1111494	1111998	1111963
Type		Single breaker				
Cam angle		29°-31°			28°-30°	
Breaker gap		.019 (new)				
Breaker arm tension		19-23 oz.			28-32 oz.	
Centrifugal advance begins @ RPM	Manual	1000	950	1000	900	
	Automatic	1100	950	1083	900	1085
Maximum degrees @ RPM	Manual	36 @ 4100	30 @ 4700	32 @ 4400	32 @ 5000	
	Automatic	32 @ 4400	30 @ 4700	28 @ 4400	32 @ 5000	24 @ 3200
Vacuum advance begins @ In. Hg.	Manual	7.00	8.00	8.00		
	Automatic	7.00	8.00	8.00		8.00
Maximum degrees @ In. Hg.	Manual	24 @ 17.5	20 @ 17	15 @ 15.5		
	Automatic	24 @ 17.5	20 @ 17	15 @ 15.5		15 @ 15.5
Timing (initial design setting) Crankshaft degrees @ RPM with vacuum line disconnected	Manual	TDC @ 700		4 BTC @ 700		
	Automatic	4 BTC @ 600		8 BTC@600	4 BTC@600	6 BTC@600
Timing mark location		Torsional damper				

ELECTRICAL SYSTEM

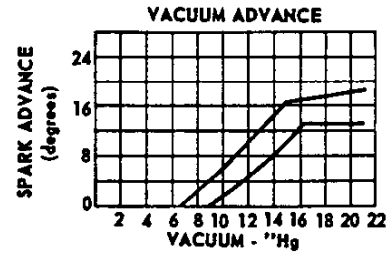
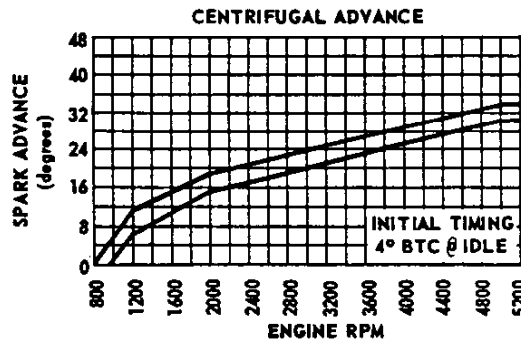
350 CUBIC INCH V-8 ENGINE



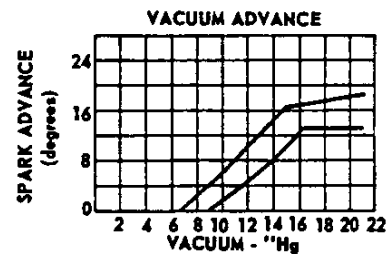
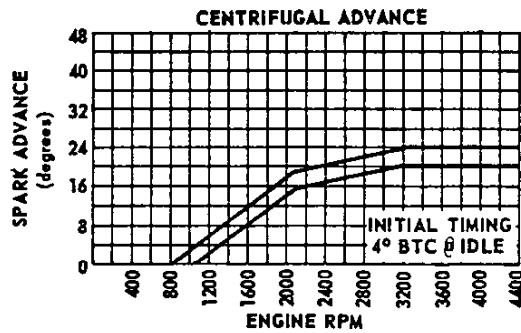
400 CUBIC INCH V-8 ENGINE (RPO LF6)



402 CUBIC INCH V-8 ENGINE (RPO LS3)



454 CUBIC INCH V-8 ENGINE



CLUTCHES AND TRANSMISSIONS

CLUTCHES

Engine	Type - Cubic Inch		V8-350		V8-400	
	Availability		Standard	RPO L48	RPO LF6	RPO LS3
Clutch for			3-Speed & 4-Speed			
Type			Single dry disc, semi-centrifugal			
Clutch cover & pressure plate	Eff. plate load, lbs.		2100-2300		2450-2750	
	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		11.00	
		ID	6.50		6.50	
	Friction ring	Total area Sq. In.		101.54		123.70
Material		Premium grade woven asbestos				
Flywheel & Ring gear	Flywheel	Material		Cast Iron		
		Material		Heat treated steel		
	Ring gear	No. of teeth		153		168
		PD		12.75		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 AND 4-SPEED TRANSMISSIONS

Transmission Type		3-Speed		4-Speed			
Engine	Type	V8-350		V8-400			
	Availability	Standard	Standard	RPO L48	RPO LF6	RPO LS3	
Case Material		Cast iron		Aluminum			
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		All forward gears		
	Sliding gears		None		Reverse		
	Ratios	First	2.54	2.54	2.52	2.52	
		Second	1.50	1.88	1.88	1.88	
		Third	1.00	1.44	1.46	1.46	
Fourth		1.00	1.00	1.00	1.00		
Reverse		2.63	2.54	2.59	2.59		
Lubricant	Type		Meeting Military Specifications MIL-L-2105B				
	Capacity (pts)		3				
Extension	Material		Cast iron		Aluminum		
	Oil seal		Steel encased double seal of spring loaded rubber or felt				

TRANSMISSIONS

POWERGLIDE TRANSMISSION

Engine	Type	V8 350 Cu. In.		
	Availability	Standard	RPO L48	
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	
	Parking lock	Quadrant pattern	P-R-N-D-L	
		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	132	
Reverse		90		
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)		
	N/V factor	34.1		
Output shaft RPM and vehicle speed (MPH)	Upshift	Closed throttle	778 (22)	
		Throttle at detent	2353 (69)	
		Full throttle	2750 (79)	
	Downshift	Closed throttle	610 (18)	
		Throttle at detent	1390 (46)	
		Full throttle	2260 (66)	
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		
	Location	In extension		
Oil pump	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 & V8-400 (LF6)	V8-400 (LS3) & V8-454	
General	Type	Automatic hydraulic torque converter with compound planetary gear system - three forward speeds and reverse.		
	Selector lever	Location	Steering column (a)	
		Operation	Actuates controls by a hydraulic system from pressurized gear type pump	
		Quadrant pattern	P-R-N-D-L2-L1 (a)	
	Parking Lock	Type	Locking pawl	
		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 (b)	Drive	55	70
		L2	80	150
		L1	80	150
		Reverse	84	107.5
Converter Assembly	Pump (Drive member)	Multivane type, sheet metal blade spot welded to steel pump housing that is an integral part of the converter housing		
	Turbine (Driven member)	Steel axial flow blades assembled between inner & outer steel shells		
	Stator assembly	Aluminum multivane type blades mounted on a one way (overrunning) roller clutch		
	Stall ratio	2.10		
	Stall speed (RPM)	2110		
	Diameter (nominal)	11.75	12.20	
Planetary Gear Set	Reaction carrier assembly	4 steel pinion gears		
	Output carrier assembly	4 steel pinion gears		
	Front band	Circular steel with organic lining		
	Rear band	Double wrap circular steel		
	Intermediate band	Circular steel with organic lining		
	Range	D (Drive)	2.52:1 - 1.52:1 - 1.00:1	2.48:1 - 1.48:1 - 1.00:1
		L2 (Low two)	2.52:1 - 1.52:1	2.48:1 - 1.48:1
		L1 (Low one)	2.52:1	2.48:1
		R (Reverse)	1.93:1	2.08:1
Servo Unit	Piston with release spring and inner cushion spring			
Case	Material	Aluminum		
Clutches	Type	Four, multiple disk	Three, multiple disk	
	Material	Drive plates	Steel with bonded organic facings	
		Driven plates	Flat steel	
	Forward clutch	4 each drive & driven plates	5 each drive & driven plates	
	Direct clutch	4 each drive & driven plates	5 each drive & driven plates	
	Intermediate clutch	2 each drive & driven plates	3 each drive & driven plates	
	Low & Reverse clutch	4 each drive & driven plates		
Release spring	Radial row steel coil			
Torque Multiplication	Drive (maximum)	5.29:1 to 1.00	5.21:1 to 1.00	
	Low 2	5.29:1 to 1.52	5.21:1 to 1.48	
	Low 1	5.29:1 to 2.52	5.21:1 to 2.48	
	Reverse	4.05:1 to 1.93	4.37:1 to 2.08	
Governor	Type	Cross-axis centrifugal		
	Operation	Regulates a pressure proportional to car speed which acts upon the (1-2) (2-3) shift and modulator valves		
Lubricant	Type	A suffix A		
	Capacity (pints)	Dry	20	22
		Refill	5	8

(a) Floor mounted when console is used quadrant changes to P-R-N-3-2-1.

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

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DIMENSIONS AND WEIGHTS

INTERIOR DIMENSIONS	2
LUGGAGE CAPACITY	2
EXTERIOR DIMENSIONS	3
VEHICLE WEIGHTS	4

INTERIOR DIMENSIONS

● FRONT COMPARTMENT

CODE	DESCRIPTION	2-DOOR 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	37.5
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	27.8
V1	Usable luggage capacity (cu. ft.)	14.6

EXTERIOR DIMENSIONS

• LENGTHS

CODE	DESCRIPTION	2-DOOR SPORT COUPE
L101	Wheelbase	116.0
L102	Tire size (standard)	G78-15
L103	Overall length	205.8
L104	Overhang - front	41.5
L105	Overhang - rear	48.3
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	60.3
W102	Tread - rear	59.3
W103	Maximum overall width of car	75.6
W106	Front fender overall width	74.7
W107	Rear fender overall width	74.7
W120	Overall car width, front doors open	150.0

• HEIGHTS

H101	Overall height (design)	52.6
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	8.2
H114	Hood at rear to ground	37.8
H115	Step height - front (design)	12.2
H125	Headlamp to ground	27.1
H126	Tail lamp to ground	25.5
H130	Step height - front (curb)	14.0
H136	Body O line to ground - front	4.7
H137	Body O line to ground - rear	4.1

• CLEARANCES

H106	Angle of approach (degrees)	22.0
H107	Angle of departure (degrees)	20.5
H147	Ramp breakover angle (degrees)	13.2
H148	Front suspension to ground	5.1
H149	Oil pan to ground	5.1
H150	Flywheel housing to ground	5.0
H151	Frame to ground	5.7
H152	Exhaust system to ground	4.7
H154	Fuel tank to ground	7.5
H156	Minimum ground clearance	4.7

VEHICLE WEIGHTS

MONTE CARLO

MODEL SYMBOL	VEHICLE TYPE Description	SHIPPING WEIGHT			CURB WEIGHT		
		Front	Rear	Total	Front	Rear	Total
13857	2-Door Sport Coupe	1976	1484	3460	1954	1609	3563

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
AQ2	Electric Seat Back Lock Release		+ 6
AU3	Electric Door Locks		+ 7
A31	Electric Window Control		+ 23
A51	Astro Bucket Seats		+ 20
C08	Vinyl Roof Cover		+ 7
C60	Air Conditioning		+ 93
D55	Console		+ 12
-	350 Cu.In. V8 Engine (250 H.P.)	4-Speed Transmission	+ 18
		Powerglide Transmission	+ 2
		Turbo Hydra-Matic Transmission	+ 28
L48	350 Cu.In. V8 Engine (300 H.P.)	4-Speed Transmission	+ 15
		Powerglide Transmission	+ 6
		Turbo Hydra-Matic Transmission	+ 36
LF6	400 Cu.In. V8 Engine (265 H.P.)	4-Speed Transmission	+ 15
		Turbo Hydra-Matic Transmission	+ 36
LS3	402 Cu.In. V8 Engine (330 H.P.)	4-Speed Transmission	+205
		Turbo Hydra-Matic Transmission	+248
LS5	454 Cu.In. V8 Engine (360 H.P.)	Turbo Hydra-Matic Transmission	+284(a)
N10	Dual Exhaust		+ 41
N40	Power Steering		+ 29
UM1	AM Pushbutton Radio & Tape Player		+ 25
UM2	AM-FM Pushbutton Radio & Tape Player		+ 39
U63	AM Pushbutton Radio		+ 8
U69	AM-FM Pushbutton Radio		+ 9
U79	Radio Stereo Equipment		+ 16

(a) Available as 'SS' equipment only - includes additional chassis and body equipment.

1970 Monte Carlo

Coupe V8
13857*
*Monte Carlo SS equipment available
(RPO Z20)

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- Monte Carlo Features..... 2
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- Monte Carlo Coupé Interiors..... 6
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New Monte Carlo features . . .

- Elegant prestige car styling characterized by smooth, flowing lines and subtle sculptured surfaces—dramatically emphasized by the longest hood ever produced by Chevrolet
- Formal coupe roof styling
- Rich front end look with bright precision-cast grille, exclusive new high-output single headlights mounted in square frames, and large parking/turn signal lights
- Bright wheel opening moldings
- Full wheel covers standard equipment
- Back-up lights built into rear bumper
- Premium-quality interior trim and appointments
- Rich simulated wood buff accents on instrument panel and steering wheel
- Electric clock standard equipment
- Deep-twist carpeting on floors, lower door trim panels, and lower edge of front seat back
- Two-spoke steering wheel with dual horn tabs
- Vinyl assist grips on doors
- Armrests front and rear
- Extra-thick foam cushioned seats
- Bright door lock buttons

Wide power choice with a large standard V8 and three other available V8 engines, plus 360-hp V8 for Monte Carlo SS

- Powerfull standard V8 (250-hp Turbo-Fire 350) with two-barrel carburetion operates on regular fuel
- Big-inch V8 option (265-hp Turbo-Fire 400) designed for regular fuel
- Transmission-controlled spark advance
- Slim-line spark plugs for Turbo-Jet V8 engines
- Turbo Hydra-matic available with all engines
- Fiberglass-belted tires and 15" wheels standard equipment
- Power disc brakes (disc front) standard equipment
- Fined rear brake drums
- Variable-ratio power steering available

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 padded instrument panel and front seat back tops

- Contoured windshield header
- Thick-laminate windshield
- Padded sun visors
- Safety armrests
- Safety steering wheel
- Side-guard beam door structure
- Cargo-guard luggage compartment

Accident Prevention Features

- Side marker lights and reflectors
- 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
- Fiberglass-belted tires and tire tread wear indicators
- Dual master cylinder brake system with warning light
- Starter safety switch
- Dual-action safety hood latches

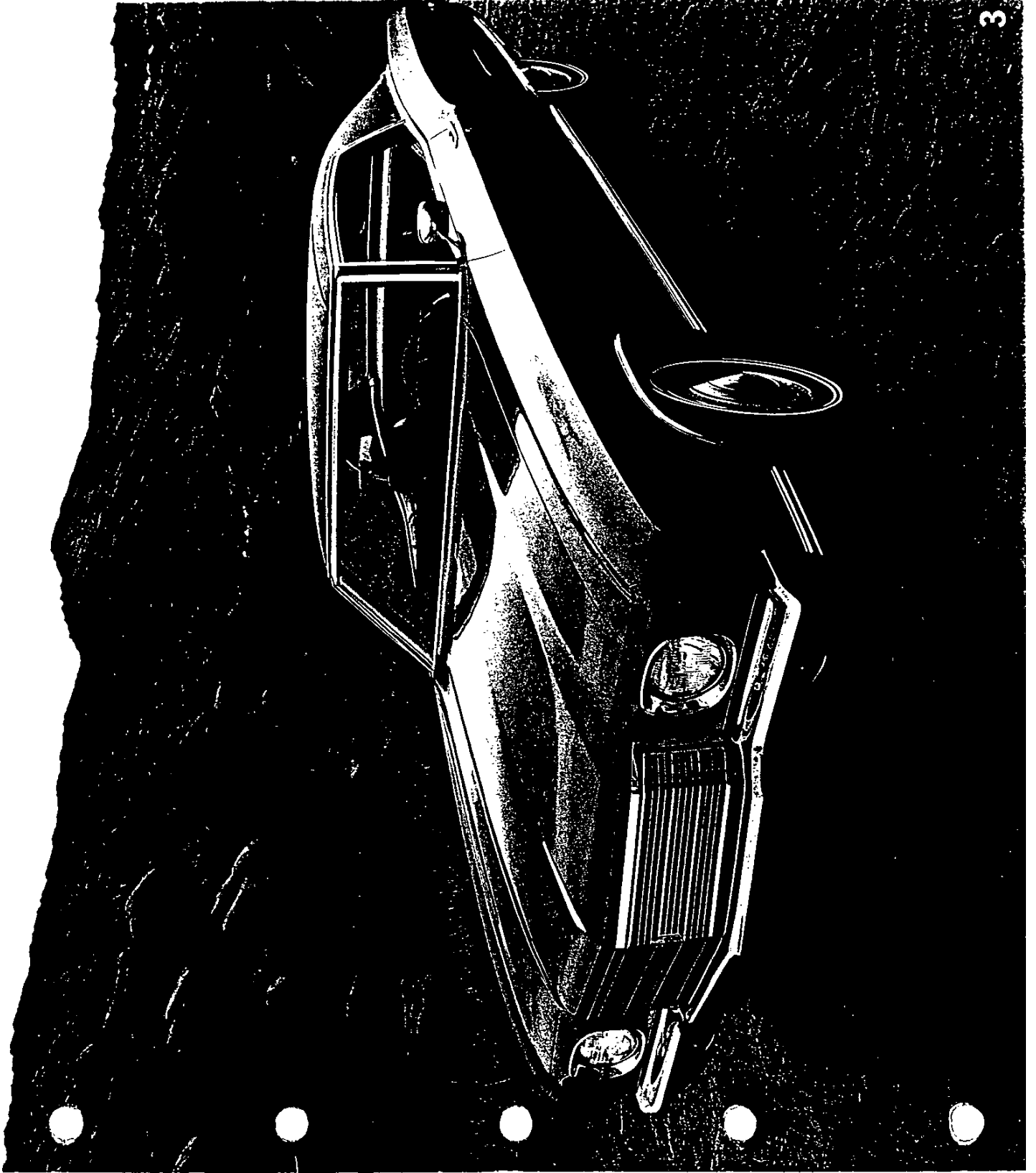
Anti-Theft Features

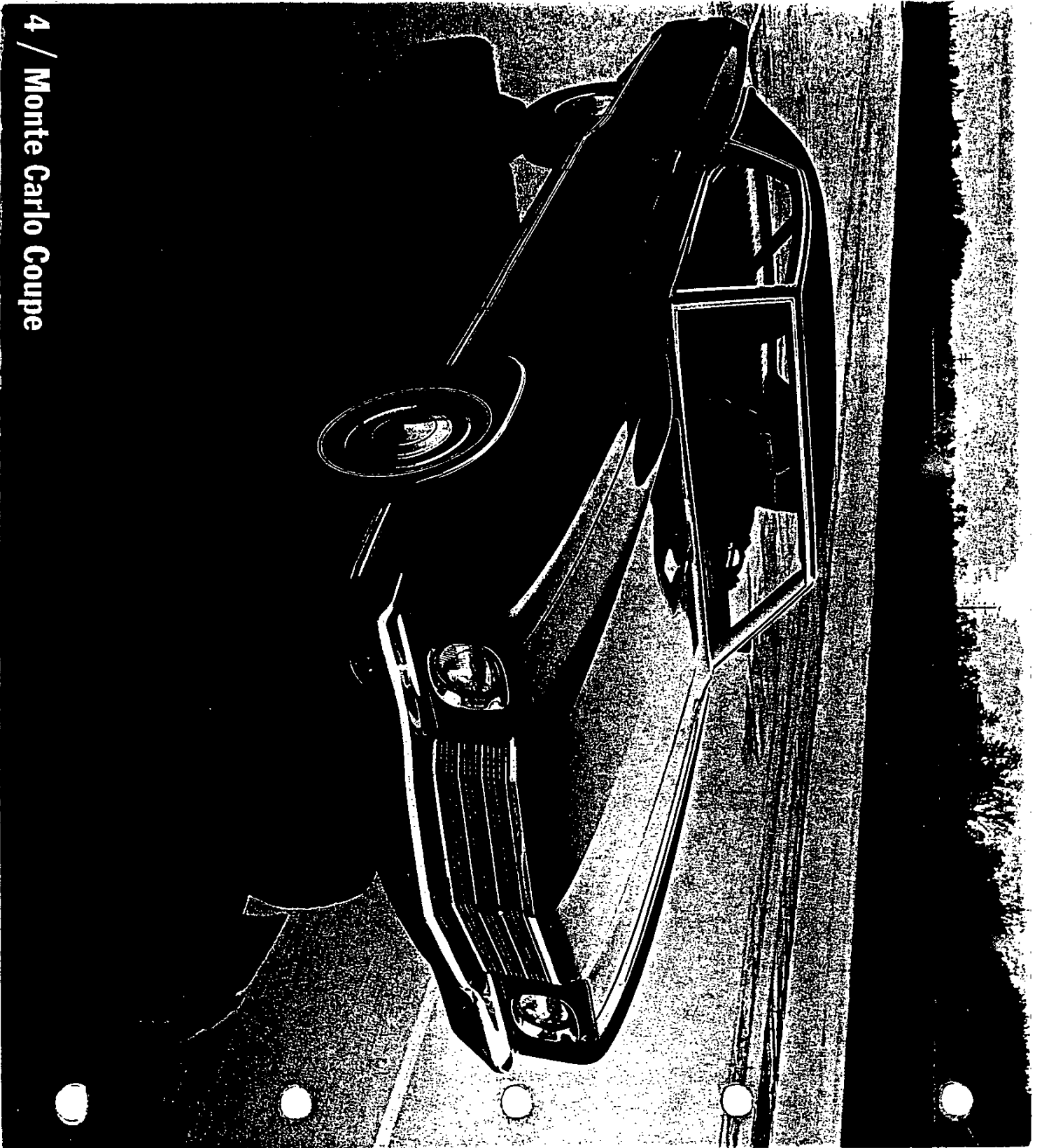
- Anti-theft ignition key warning buzzer
- Anti-theft steering column lock

Traditional Chevrolet quality features . . .

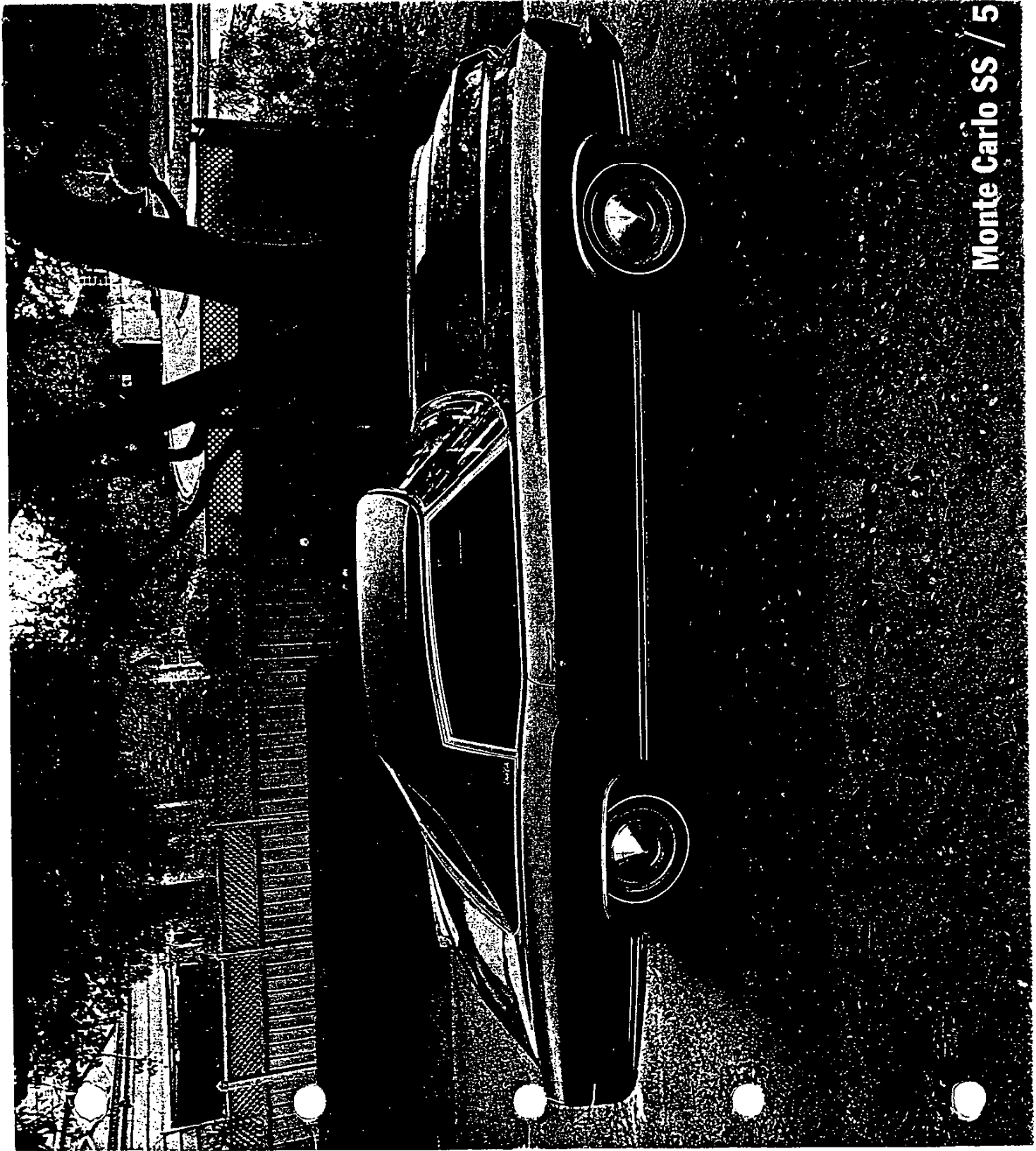
- Astro Ventilation system with vent-ports on instrument panel
- Full door-glass styling
- Suspended accelerator pedal
- Efficient valve-in-head engine design
- Quiet hydraulic valve lifters
- Positive-shift starter
- Automatic choke on all engines
- Advanced accessory drive system
- Delco-tron generator
- Long-life exhaust system
- Hide-A-Way windshield wipers
- Flush-and-dry rocker panels
- Magic-Mirror acrylic lacquer finish
- Curved side windows
- Flush-mounted windshield and rear window bonded to body
- Built-in blended air heater and defroster system
- Inner fenders front and rear
- Full Coil suspension with computer-selected springs
- Separate perimeter-type frame
- Advanced body mounting system
- Precise Ball-Race steering
- Self-adjusting brakes
- Foot-operated parking brake

2 / Monte Carlo features





4 / Monte Carlo Coupe



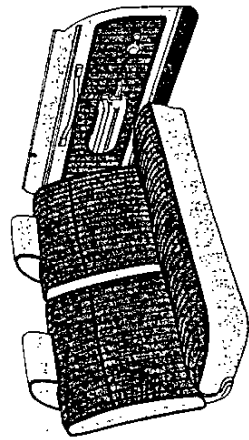
Monte Carlo SS / 5



6 / Monte Carlo custom knit cloth and vinyl interior



Monte Carlo Strato-bucket seats (RPO A51) in all-vinyl; custom knit cloth and vinyl choice also offered. Available with or without console (RPO D55).



Monte Carlo Coupe pattern cloth and vinyl interior.

Interior Trim

model	seat style	Black		Blue	Dark Blue	Gold	Dark Green		Saddle	Sandalwood
		knit cloth	vinyl	cloth	knit cloth	cloth	knit cloth	vinyl	vinyl	cloth
Coupe	conventional Strato-bucket (RPOA51)	748		758	767	774	780			792
		749	757					784	769	

Exterior Colors

	code										
Gobi Beige	50	•				•				•	
Tuxedo Black	19	•				•				•	
Astro Blue	25	•				•				•	
Fathom Blue	28	•				•				•	
Black Cherry	78	•								•	
Desert Sand	63	•								•	
Champagne Gold	55	•				•				•	
Autumn Gold	58	•				•				•	
Green Mist	45	•				•				•	
Forest Green	48	•				•				•	
Cranberry Red	75	•								•	
Cortez Silver	14	•				•				•	
Shadow Gray	17	•				•				•	
Misty Turquoise	34	•								•	
Classic White	10	•				•				•	

Two-tone Combinations

lower color	code	upper color	code								
Astro Blue	25	Fathom Blue	28	•							•
Astro Blue	25	Classic White	10	•							•
Fathom Blue	28	Astro Blue	25	•							•
Champagne Gold	55	Classic White	10	•							•
Autumn Gold	58	Classic White	10	•							•
Desert Sand	63	Classic White	10	•							•
Misty Turquoise	34	Classic White	10	•							•

8 / Monte Carlo color and trim

Vinyl Roof Cover Color Choices (RPO C08)

vinyl roof color	code	exterior color availability
White	AA	all exterior colors except Shadow Gray
Black	BB	all exterior colors
Dark Blue	CC	Astro Blue, Fathom Blue, Cortez Silver, Classic White
Dark Green	GG	Green Mist, Forest Green, Classic White
Dark Gold	HH	Champagne Gold, Autumn Gold, Gobi Beige

Note: Roof and rear quarter belt molding inside surfaces match vinyl roof color.

Seat and Shoulder Belt Colors

interior trim color	standard style belts	custom deluxe belts*
Black	Black	Black
Blue	Dark Blue	Dark Blue
Gold	Medium Gold	Medium Gold
Green	Dark Green	Dark Green
Saddle	Black	Medium Saddle
Sandalwood	Black	Medium Sandalwood

*Available at extra cost. Note: Standard seat and shoulder belt buckles color-keyed; Custom Deluxe buckles brush-finished.

Engines, Transmissions and Axle Ratios

engines	transmissions and rear axle ratios				
	3-Speed (2.54:1 low)	4-Speed (2.54:1 low)	4-Speed (2.52:1 low)	Powerglide	Turbo Hydra-matic
Standard V8	3.08	3.36		3.08	2.73
250-hp Turbo-Fire 350 V8					
(RPO L48)				2.73	2.73
300-hp Turbo-Fire 350 V8					
(RPO LFe)				3.31	2.73
265-hp Turbo-Fire 400 V8					
(RPO LS9)				3.31	3.31
330-hp Turbo-Jet 400 V8					
360-hp Turbo-Jet 454 V8					3.31
(Included with Monte Carlo SS RPO Z20)					

Note: Positraction rear axle available in all axle ratios.

Equipment Included With Optional* V8 Engines

Important equipment is included with optional* V8 engines, supplementing or replacing equipment included with the standard V8. Other specialized equipment is also available.

	300-hp 350	265-hp 400	330-hp 400	360-hp 454**
Special front and rear springs	•	•	•	•
Heavier duty front shock absorbers		•†	•	•
Heavier duty axle assembly with two upper control arms		•†	•	•
Rear axle ring gear—8.875" dia.		•	•	•
Single exhaust (2½-in. dia.)		•	•	•
Dual exhaust (2½-in. dia.)		•	•	•
Larger capacity radiator			•	•
Larger in-line fuel filter and vapor return line to fuel tank		•	•	•
Heavier duty battery				•
15" x 7" wheels				•
Automatic Level Control				•

*Optional at extra cost. **Included with Monte Carlo SS equipment (RPO Z20).
† Except Powerglide.

Transmissions

	engine	transmission gear ratios (:1)				shift selector locations column floor console*
		1	2	3	4	
3-Speed Fully Synchronized (standard)	250-hp V8	2.54	1.50	1.00	R	2.63
	250-hp V8	2.54	1.80	1.44		2.54
	300-hp V8 265-hp V8 330-hp V8	2.52	1.88	1.46	1.00	2.59
Powerglide (RPO M35)	250-hp V8	Drive (max.)—3.70:1 to 1:1				•
	300-hp V8	Low and Reverse—3.70:1 to 1.76:1				
Turbo Hydra-matic (RPO M40)	250-hp V8	Drive (max.)—5.29:1 to 1:1				•
	265-hp V8	Low 2—5.29:1 to 1.52:1				
	300-hp V8	Low 1—5.29:1 to 2.52:1				
	300-hp V8	Reverse—4.05:1 to 1.93:1				
Turbo Hydra-matic (RPO M40)	330-hp V8	Drive (max.)—5.21:1 to 1:1				•
	360-hp V8	Low 2—5.21:1 to 1.48:1				
	360-hp V8	Low 1—5.21:1 to 2.48:1				
		Reverse—4.37:1 to 2.08:1				

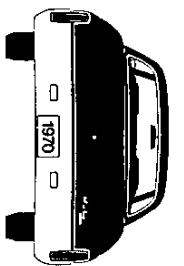
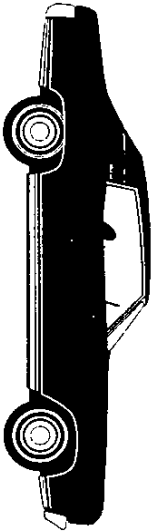
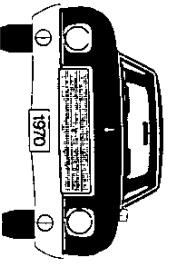
*Optional at extra cost

Clutches for Monte Carlo 3- and 4-Speed Transmission Power Teams

	250-hp 350 V8	300-hp 350 V8	265-hp 400 V8	330-hp 400 V8	360-hp 454 V8
Clutch type	Semi-centrifugal bent-finger design diaphragm spring with single dry disc				
Disc facing material	Premium grade woven asbestos				
Disc facing outside diameter	10.34"	11.00"			
Disc facing total area (sq. in.)	101.54	127.30			
Spring effective plate load (lbs.)	2100-2300				

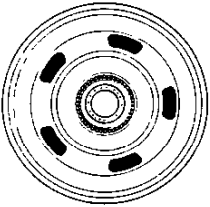
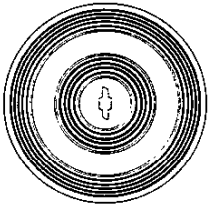
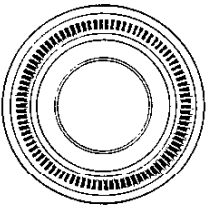
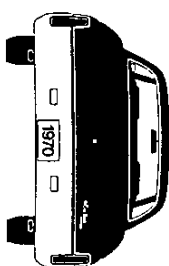
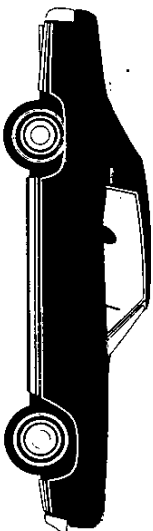
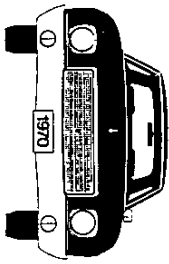
Monte Carlo

Monte Carlo Coupe



SS454

Monte Carlo SS



Monte Carlo standard wheel cover Special Wheel Cover (RPO PA3)

Rally Wheel (RPO ZJ7)

12 / Monte Carlo exterior features

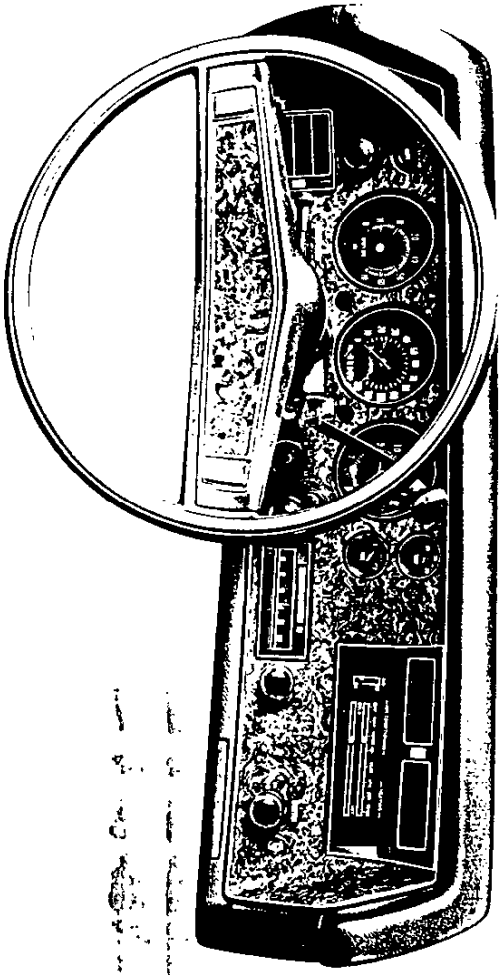
Monte Carlo Exterior Features

	Monte Carlo Coupe	Monte Carlo SS
Bright precision-cast grille with center crest	•	•
High-output single headlights with square, bright frames	•	•
Circular parking/direction signal lights built into front bumper	•	•
Hood windshield molding	•	•
Windshield molding	•	•
Hide-A-Way windshield wipers	•	•
Hood rear edge molding	•	•
Full door-glass styling	•	•
Monte Carlo roof rear quarter nameplate	•	•
SS 454 nameplate in front fender lower molding	•	•
Rectangular outside rearview mirror	•	•
Bright roof drip moldings	•	•
Bright door and rear quarter belt moldings	EC	EC
Side marker lights—front and rear	•	•
Black-accented lower body, body sill and fender moldings	•	•
Bright wheel opening moldings	•	•
Full wheel covers	•	•
Rear window molding	•	•
Bright rear molding	•	•
Single-unit vertical taillights with bright accents	•	•
Rectangular back-up lights built in rear bumper	•	•
Bright twin tailpipe extensions	•	•

EC—Extra cost

Monte Carlo Interior Features

Oval steering wheel with horn tabs and emblem	Coupe	SS
Simulated wood burl accents on instrument panel and steering wheel	•	•
Simulated wood instrument cluster surface	•	•
Astro Ventilation vents	•	•
Electric clock	•	•
Automatic ignition key alarm	•	•
Glove compartment lock and light	•	•
Illuminated heater control panel	•	•
Cigarette lighter	•	•
Oil pressure, temperature, and generator warning light	•	•
Parking brake and brakes system warning light	•	•
Color-keyed turn signal and shift lever knobs	•	•
Padded instrument panel and sun visors	•	•



14 / Monte Carlo interior features

Exterior Dimensions

	Coupe
Wheelbase	116.0
Length (overall)	205.8
Width (overall)	75.6
Height (loaded)	52.9
Front tread	60.2
Rear tread	59.3

Interior Roominess

Head room—front	37.6
Head room—rear	36.3
Leg room—front	42.8
Leg room—rear	32.3
Hip room—front	59.4
Hip room—rear	58.3
Shoulder room—front	58.0
Shoulder room—rear	56.6
Front entrance height	29.5

Luggage Compartment

	Coupe
Maximum opening width	48.5
Loading height	25.7
Interior length (max.)	49.0
Interior width (max.)	72.0
Interior height (max.)	18.0
Usable luggage space (cu. ft.)	14.6

Glass Area

Windshield glass area (sq. in.)	1208.7
Rear window glass area (sq. in.)	1059.4
Total glass area (sq. in.)	3493.5

Tire Size & Steering Specifications

Standard tire size	G78 x 15
Turning circle—curb-to-curb (ft.)	42.2
Turning circle—wall-to-wall (ft.)	45.3
Steering ratio—power (overall)	18.8 to 14.5

Fuel Capacity & Weight

Rated fuel tank capacity (gallons)	20
Curb weight—(lbs.)	3565
Shipping weight—(lbs.)	3460

Monte Carlo Interior Features

	Coupe	SS
Convenient T-handle parking brake release	•	•
Wide day-night rearview mirror	•	•
Foot-operated parking brake	•	•
Suspended accelerator pedal	•	•
Bright forward-mounted door lock buttons	•	•
Color-accented window regulator handles	•	•
Padded front door armrests with bright accents	•	•
Rear seat armrests with built-in ashtrays	•	•
Scuff-resistant plastic cowl side panels	•	•
Vinyl assist grips on doors	•	•
Pattern cloth and vinyl or luxurious custom knit nylon and vinyl	•	•
Extra-thick foam cushioned front and rear seats	•	•
Deep-twist carpeting on floor, lower door trim panel, and lower edge of front seat back	•	•
Vinyl-coated perforated headlining	•	•
Center dome light with bright bezel	•	•
Vinyl-coated luggage compartment mat	•	•

AMA Specifications—Passenger Car

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

MANUFACTURER	Chevrolet Motor Division General Motors Corporation	CAR NAME	MONTE CARLO
		MODEL YEAR	1970
		ISSUED: 9-69	
		REVISED (•)	

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.

TABLE OF CONTENTS

Car & Body Dimensions	1, 2	Drive Units	14	Suspensions	21
Engine - Mechanical	4	Brakes	18, 19	Weights	24
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BODY - TYPES AND STYLE NAMES -

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

<u>MONTE CARLO</u>	V-8 <u>Engine</u>
2-Door Sport Coupe, 5-Passenger	13857
2-Door Convertible, 5-Passenger	13867

MONTE CARLO

1970 MODELS WITH STANDARD EQUIPMENT (116" Wheelbase)

Model Number and Description	Dealer Invoice Amount*	Dealer Price	Factory D & H	List Price	Mfr's Sgt'd Dealer NVPC -	Mfr's Sgt'd Retail Price*	Desti-nation Group No.	Desti-nation Charge	Total
8-Cylinder Models									
250-hp Turbo-Fire 350 Engine									
13857 Coupe—5-Passenger						\$3123.00	10		

* Manufacturer's Suggested Dealer New Vehicle Preparation Charge.
 * 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
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MODEL OPTION

→ Monte Carlo SS: Available only when Turbo Hydra-matic transmission and HD battery are ordered. Includes 360-hp Turbo-jet 454 engine; Superlift automatic level control rear shock absorbers; dual exhausts; G70-15/B bias belted ply white stripe tires; 15" x 7" wheels and 454 emblems on body sill moldings	Z20					\$420.25
--	-----	--	--	--	--	----------

FEATURE GROUPS

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

APPEARANCE GUARD GROUP

INCLUDES:

(A) Guards, Front Bumper	V31	15.80
(B) Guards, Rear Bumper	V32	15.80
(C) Guards, Door Edge	B93	4.25
(D) Mats, Color-Keyed Floor: 2 Front, 2 Rear	B37	11.60
(E) Mirror, Visor Vanity	D34	3.20
For Coupe model—Includes A, B, C, D & E.	ZP5	50.65

OPERATING CONVENIENCE GROUP

INCLUDES:

(A) Defroster, Rear Window: (Forced-Air)	C50	26.35
(B) Mirror, L.H. Outside Remote-Control Rearview	D33	10.55
For Coupe model—Includes A & B.	ZQ2	36.90

* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with 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	Mr.'s Suggested Retail Delivered Price [†]
POWER TEAMS						
<i>(See Power Teams Chart for availability and complete engine specifications)</i>						
Engines:						
300-hp Turbo-Fire 350.....	L48					\$ 47.40
265-hp Turbo-Fire 400 (For regular grade fuel)	LF6					63.20
330-hp Turbo-Jet 400.....	LS3					141.15
Transmissions:						
Powerglide.....	M35					174.25
Turbo Hydra-matic						
With standard or 300-hp engine.....	M40					200.65
With 265-hp, 330-hp or Monte Carlo SS engine.....	M40					221.80
4-Speed Wide-Range.....	M20					184.80
Axle, Positraction Rear.....	G80					42.15
POWER ASSISTS						
Door Lock System, Power: Electric.....	AU3					44.80
Seat Back Latch, Automatic: Electric. Available only when power door lock system is ordered.....	AQ2					23.70
→ Seat, Power: Electric. 4-way control						
With bench seat.....	A41					73.75
With bucket seats.....	A46					73.75
Steering, Power: Variable ratio.....	N40					105.35
→ Trunk Opener, Power: Electric.....	A90					14.75
Windows, Power: Electric.....	A31					105.35
OTHER OPTIONS						
Air Conditioning, Four-Season: Includes 61-amp generator and HD radiator.....	C60					376.00
→ Battery, Heavy-Duty: 15-plate, 80-amp-hr.....	T60					15.80
Belts, Seat and Shoulder: In addition to or replacing standard belts						
CUSTOM DELUXE BELTS: (Replacing standard number of belts)						
Coupe with bench seat—6 seat and 2 shoulder.....	AK1					13.70
Coupe with bucket seats—5 seat and 2 shoulder.....	AK1					12.15
SHOULDER BELTS—2 REAR: for use when Custom Deluxe Belts are ordered.....	AS4					26.35
Console: Available only when bucket seats and optional transmission are ordered. Includes rear seat courtesy light and compartment. Shift lever mounted on console.....	D55					53.75
Emission Control, Evaporative: Released to conform with State of California registration requirements.....	NA9					36.90
Exhausts, Dual: With standard, 265-hp or 300-hp engine only. Included when 330-hp engine or Monte Carlo SS is ordered.....	N10					30.55
Generator: 63-amp Delcotron						
Without air conditioning.....	K85					26.35
With air conditioning.....	K85					5.30

* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with 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	Mr's Suggested Retail Delivered Price [◇]
Glass, Soft-Ray Tinted: All windows.....	A01					\$ 42.15
Heater, Engine Block.....	K05					10.55
Instrumentation, Special: Includes tachometer, ammeter and temperature gauges mounted in instrument panel.....	U14					68.50
Light Monitoring System: (Vigilite).....	U46					26.35
► Lighting, Auxiliary:						
(A) Ashtray Light						
(B) Courtesy Lights						
(C) Luggage Compartment Light						
(D) Mirror Map Light						
(E) Underhood Light						
For Coupe—Includes A, B, C, D & E.....	Z19					20.05
Moldings, Belt.....	B85					19.00
Paints, Exterior:						
Solid Color.....						N.C.
Two-tone combinations. Coupe model only. Includes bright metal outline moldings.....						44.25
Radiator, Heavy-Duty: Included when air conditioning is ordered.....	V01					14.75
Radio Equipment:						
<i>Pushbutton—Includes concealed windshield antenna</i>						
AM Radio.....	U63					61.10
AM/FM Radio.....	U69					133.80
AM/FM/Stereo Radio.....	U79					239.10
Stereo Tape System with AM Radio.....	UM1					194.85
Stereo Tape System with AM/FM/Stereo Radio.....	UM2					372.85
Speaker, Rear Seat—Not available when stereo is ordered.....	U80					13.20
Roof Cover, Vinyl: Includes bright metal outline moldings. See Color Selection Chart for solid exterior color availability						
Black.....	BB					126.40
Blue (Dk).....	CC					126.40
Gold (Dk).....	HH					126.40
Green (Dk).....	GG					126.40
White.....	AA					126.40
Shock Absorbers, Rear: Superlift—automatic level control. Included when Monte Carlo SS is ordered.....	G67					89.55
Skirts, Rear Fender: Not available when 15" x 7" wheels are ordered.....	T58					31.60
Speed and Cruise Control: (Cruise-Master) Available only when automatic transmission is ordered. Not available when Monte Carlo SS, superlift rear shock absorbers or finger-tip windshield wiper control are ordered.....	K30					57.95
Steering Wheel, Comfortilt: Available only when optional transmission is ordered.....	N33					45.30
Steering Wheel, Cushioned Rim: Black.....	NK1					34.80
Trim, Interior: See Interior and Exterior Color Selection Chart for availability and ordering information						
Regular Cloth bench seats in place of Custom Knit Cloth.....						N.C.
Strato-Bucket seats: Custom Knit Cloth or Vinyl.....	A51					121.15
Wheel Covers, Color Keyed: Includes body color accents.....	PA3					15.80
Wheel Covers, Special:						
Without Monte Carlo SS; also includes 15" x 7" wheels.....	PO2					84.30
With Monte Carlo SS.....	PO2					73.75
Wheels, 15" x 7JK: Included when Monte Carlo SS, rally wheels or special wheel covers are ordered.....	PH1					10.55
Wheels, Rally: Includes special 15" x 7" wheels, special hub caps and trim ring.....	Z17					31.60
Windshield Wiper Control, Finger-tip.....	CD3					19.00

FACTORY INSTALLED REGULAR PRODUCTION TIRES

Replaces (5) G78-15/B Bias Belted Ply Blackwall

(5) G78-15/B Bias Belted Ply White Stripes. Not available when Monte Carlo SS is ordered.....	P08					30.20
(5) G70-15/B Bias Belted Ply White Stripes. Available only when 15" x 7" wheels are ordered. Included when Monte Carlo SS is ordered.....	P90					46.95

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

◇ State and local taxes not included.

► Indicates Change

MONTE CARLO POWER TEAMS

Engine, Transmission and Rear Axle Combinations

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

STANDARD ENGINE

Standard Eight-Cylinder	250-hp Turbo-Fire 350 8-Cylinder 350-cu-in displacement Regular camshaft 2-barrel carburetor 9.00:1 compression ratio Hydraulic valve lifters Single exhaust	3-Speed—Std	Column	Not Available	3.08
		Powerglide—M35	Column	In Console w/Floor Shift	3.08
		Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	2.73
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.36

OPTIONAL ENGINES

L48	300-hp Turbo-Fire 350 8-Cylinder 350-cu-in displacement Regular camshaft 4-barrel carburetor 10.25:1 compression ratio Hydraulic valve lifters Single exhaust	Powerglide—M35	Column	In Console w/Floor Shift	2.73
		Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	2.73
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.31
LF6	285-hp Turbo-Fire 400 8-Cylinder 400-cu-in displacement Regular camshaft 2-barrel carburetor 9.00:1 compression ratio Hydraulic valve lifters Single exhaust	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	2.73
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.31
LE3	330-hp Turbo-Jet 400 8-Cylinder 400-cu-in displacement Regular camshaft 4-barrel carburetor 10.25:1 compression ratio Hydraulic valve lifters Dual exhaust	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	2.73
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.31
Monte Carlo SS Option Z20	360-hp Turbo-Jet 454 8-Cylinder 454-cu-in displacement Special camshaft 4-barrel carburetor 10.25:1 compression ratio Hydraulic valve lifters Dual exhaust	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	3.31

* All ratios available as Positraction

MONTE CARLO COUPE AND CONVERTIBLE 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 original order carries a notation in the special instruction section. This notation should state that the color and trim selection has been verified and 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.
BLUE (Dark)	CC	Astro Blue, Fathom Blue, Cortez Silver or Classic White Exterior Colors Only.
GOLD (Dark)	HH	Champagne Gold, Autumn Gold or Gobi Beige Exterior Colors Only.
GREEN (Dark)	GG	Green Mist, Forest Green or Classic White Exterior Colors Only.
WHITE	AA	All Exterior Colors.

	INTERIOR TRIM										
	Type of Seat	Black		Blue			Gold	Green (Dark)		Saddle	Sandal-wood
		Knit Cloth	Vinyl	Cloth (Med.)	Knit Cloth (Dark)	Vinyl (Med.)	Cloth	Knit Cloth	Vinyl	Vinyl	Cloth
Coupe	Std. Bench	748		758	767		774	780			792
	Strato-Bucket (RPO A51)	749	757						784	769	

EXTERIOR COLOR	CODE								
	Lower	Upper							
SOLID									
Beige, Gobi	50	50	X			X	X	X	X
Black, Tuxedo	19	19	X		X	X	X	X	X
Blue, Astro (Med.)	25	25	X		X				X
Blue, Fathom (Dk.)	28	28	X		X				X
Cherry, Black	78	78	X					X	X
Gold, Champagne (Med.)	55	55	X			X	X	X	X
Gold, Autumn (Dk.)	58	58	X			X	X	X	X
Gray, Shadow	17	17	X		X		X	X	X
Green Mist (Med.)	45	45	X				X	X	X
Green, Forest (Dk.)	48	48	X			X	X	X	X
Red, Cranberry	75	75	X					X	X
Sand, Desert	63	63	X					X	X
Silver, Cortez	14	14	X		X		X	X	X
Turquoise, Misty (Med.)	34	34	X						X
White, Classic	10	10	X		X	X	X	X	X
TWO-TONE	Lower	Upper							
Blue, Astro (Lower) Blue, Fathom (Upper)	25	28	X		X				X
Blue, Astro (Lower) White, Classic (Upper)	25	10	X		X				X
Blue, Fathom (Lower) Blue, Astro (Upper)	28	25	X		X				X
Gold, Champagne (Lower) White, Classic (Upper)	55	10	X			X	X	X	X
Gold, Autumn (Lower) White, Classic (Upper)	58	10	X			X	X	X	X
Sand, Desert (Lower) White, Classic (Upper)	63	10	X					X	X
Turquoise, Misty (Lower) White, Classic (Upper)	34	10	X						X

MONTE CARLO

STANDARD AND CUSTOM DELUXE SEAT BELT AND SHOULDER BELT COLOR AND USAGE CHART

INTERIOR TRIMS	STANDARD	CUSTOM DELUXE
	Seat Belt & Shoulder Belt Buckles are Colored Plastic	Seat Belt & Shoulder Belt Buckles are Brushed Metal
Black	Black	Black
Blue	Dark Blue	Dark Blue
Gold	Medium Gold	Medium Gold
Green	Dark Green	Dark Green
Saddle	Black	Medium Saddle
Sandalwood	Black	Medium Sandalwood

COLOR-KEYED WHEEL COVER (PA3) OPTION ACCENT COLOR APPLICATION CHART

LOWER EXTERIOR COLORS	OPTIONAL (PA3) WHEEL COVER ACCENT COLORS
Beige, Gobi	Beige
Black, Tuxedo	Black
Blue, Astro	Medium Blue
Blue, Fathom	Dark Blue
Cherry, Black	Maroon
Gold, Champagne	Medium Gold
Gold, Autumn	Dark Gold
Gray, Shadow	Taupe
Green Mist	Medium Green
Green, Forest	Dark Green
Red, Cranberry	Red
Sand, Desert	Light Saddle
Silver, Cortez	Silver
Turquoise, Misty	Medium Turquoise
White, Classic	White

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (a)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

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

MODEL	SAE Ref. No.	Sport Coupe		Convertible	
WIDTH					
Track - Front	W101		60.3		
Track - Rear	W102		59.3		
Maximum overall car width	W103		75.6		
Body width at No. 2 pillar	W117	--		--	
LENGTH					
Body "O" to front of dash	L 30		0.0		
Wheelbase	L101		116.0		
Overall car length	L103		205.8		
Overhang - front	L104		41.5		
Overhang - rear	L105		48.3		
Body upper structure length	L123	93.4		94.7	
Body "O" line to $\text{\textcircled{C}}$ of rear wheel	L127		95.5		
Body "O" line to w/s cowl point	L130		10.4		
HEIGHT					
Passenger Distribution (front & rear)			2 - 3		
Trunk/Cargo load (lbs.)			200		
Overall height	H101	52.6		53.0	
Cowl height	H114		37.8		
Deck height	H138		N.A.		
Rocker panel - front	To ground		8.2		
	From front wheel $\text{\textcircled{C}}$	H112			
Rocker panel - rear	To ground		7.5		
	From rear wheel $\text{\textcircled{C}}$	H111			
Windshield slope angle	H122		53.0		
GROUND CLEARANCE					
Bumper to ground - front	H102		13.6		
Bumper to ground - rear	H104		12.8		
Angle of approach	H106		22.0		
Angle of departure	H107		20.5		
Ramp breakover angle	H147		13.2		
Min. running clearance (Specify)	H156		4.7 @		

@ Exhaust system to ground.

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED 6

CAR AND BODY DIMENSIONS

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

MODEL	SAE Ref. No.	Sport Coupe	Convertible
FRONT COMPARTMENT			
Effective head room	H61	37.5	38.3
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	59.6
Upper body opening to ground	H50		48.2
REAR COMPARTMENT			
H Point couple distance	L50		30.6
Effective head room	H63	36.3	36.9
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	47.9
Hip room	W 6	53.0	54.1
Upper body opening to ground	H51		NA
LUGGAGE COMPARTMENT			
Usable luggage capacity	V 1		14.6
Liftover height	H195		27.8
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 1728	V2		

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (a)

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)	
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		Standard	A/C
Sport Coupe and Convertible	Turbo-Fire 350 V-8 (Base)	One; 2-bbl.	9.00:1	250 @ 4800	345 @ 2800	3-Spd. Manual (2.54:1 low)	3.08	3.08
						4-Spd. Manual*	3.36	3.36
						2-Spd. Automatic*	3.08	3.08
						3-Spd. Automatic*	2.73	2.73
	Turbo-Fire 350 V-8 (L48)*	One; 4-bbl.	10.25:1	300 @ 4800	380 @ 3200	4-Spd. Manual* (2.52:1 low)	3.31	3.31
						2-Spd. Automatic	2.73	2.73
						3-Spd. Automatic	2.73	2.73
	Turbo-Fire 400 V-8 (LF6)*	One; 2-bbl.	9.00:1	265 @ 4400	400 @ 2400	4-Spd. Manual* (2.52:1 low)	3.31	3.31
						3-Spd. Automatic*	2.73	2.73
	Turbo-Jet 400 V-8 (402 C.D.) (LS3)*	One; 4-bbl.	10.25:1	330 @ 4800	410 @ 3200	4-Spd. Manual* (2.52:1 low)	3.31	3.31
3-Spd. Automatic*						3.31	3.31	
Turbo-Jet 454 V-8 (LS5)*	One; 4-bbl.	10.25:1	360 @ 4400	500 @ 3200	3-Spd. Automatic*	3.31	3.31	
*- Optional ** - Positraction optional for all models								

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (*)

MODEL Turbo - Fire 350 | Turbo - Fire 400 | Turbo - Jet 400 | Turbo - Jet 454
V8 250 HP | V8 300 HP | V8 265 HP | V8 330 HP | V8 360 HP

ENGINE - GENERAL

Type, no. cyis., valve arr.	90° V8 OHV				
Bore and stroke (nominal)	4.00 x 3.48	4.125x3.75	4.126x3.76	4.251x4.00	
Piston displacement, cu. in.	350	400	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				
Compres. ratio (nominal)	9.00:1	10.25:1	9.00:1	10.25:1	
Cylinder Head Material	Cast Iron				
Cylinder Block Material	Cast Iron				
Cyl. Sleeve-Wet, dry, none	None				
Number of mtg. points	Front	Two			
	Rear	One			
Engine installation angle	4° 46'				
Taxable horsepower	51.2	54.4	54.5	57.8	
Publishing max. bhp* @ eng. RPM	250 @ 4800	300 @ 4800	265 @ 4400	330 @ 4800	360 @ 4400
Publishing max. torque* (lb. ft. @ RPM)	345 @ 2800	380 @ 3200	400 @ 2400	410 @ 3200	500 @ 3200
Recommended fuel regular - premium	Regular	Premium	Regular	Premium	

ENGINE - PISTONS

Material	Cast aluminum alloy					
Description and finish	Flat notched head, slipper skirt	Sump head, slipper skirt	Domed head, slipper skirt			
Weight (piston only) oz.	25.76	22.59	24.93	25.12		
Clearance (limits)	Top land	.0235 - .0325	.0365-.0455	.0306-.0374	.0306-.0374	
	Skirt	Top	.0007 - .0013 (a)	.0014-.0020(b)	.0018-.0026(b)	.0020-.0028(c)
		Bottom				
Ring groove depth	No. 1 ring	.2218 - .2284	.2328-.2393	.2328-.2307	.2348-.2412	
	No. 2 ring	.2218 - .2284	.2328-.2393	.2328-.2392	.2348-.2412	
	No. 3 ring	.2038 - .2103	.2183-.2248	.2183-.2247	.2183-.2247	
	No. 4 ring					

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

- (a) Measured 1.560 from top of piston
 (b) Measured 1.942 from top of piston
 (c) Measured 1.74 from top of piston

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (a) 2-70

MODEL	V8-350	V8-400	V8-454
	250 HP 300 HP	265 HP 330 HP	360 HP

ENGINE - RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression	
	No. 2, oil or comp.	Compression	
	No. 3, oil or comp.	Oil	
	No. 4, oil or comp.	None	
Compression	Description - material, coating, etc.	Cast alloy iron; barrel face (a) 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 OD; 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
		Material	
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	5.56 - 5.57 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 V8-400 & 454

(b) Wear resistant coating on V8-350 & 400 (265hp); Chrome plate V8-400 (330hp) & 454

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

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

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (a)

MODEL	V8-350 250 & 300 HP	V8-400 265 HP	V8-454 360 HP
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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	Steel backed insert; copper lead alloy or premium aluminum lining selected for specific application.				
	Clearance	(a)		(b)		
	Journal dia. and bearing overall length	No. 1	2.4502x.752	2.6503x.752	2.7509x.992	2.7503x.99
		No. 2	2.4505x.752	2.6506x.752	2.7510x.992	2.7505x.99
		No. 3	2.4505x.752	2.6506x.752	2.7505x.992	2.7505x.99
		No. 4	2.4505x.752	2.6506x.752	2.7505x.992	2.7505x.99
		No. 5	2.4508x1.177	2.6509x1.177	2.7510x1.2525	2.7510x1.25
No. 6	None					
No. 7	None					
Dir. & amt. cyl. offset		None				
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		
Type of Drive	Gear or chain	Chain		
	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	

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Standard		
Valve rotator, type (intake, exhaust)		None		
Rocker ratio		1.50:1	1.70:1	
Operating tappet clearance (indicate hot or cold)	Intake	Zero		
	Exhaust	Zero		

(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

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED(*) 2-7

	V8-350 250 & 300 HP	V8-400 265 HP	330 HP	V8-454 360 HP
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ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	28°	28°	56°	
		Closes (°ABC)	72°	78°	114°	
		Duration - deg.	280°	286°	350°	
Exhaust		Opens (°BBC)	78°	75°	110°	
		Closes (°ATC)	30°	31°	62°	
		Duration - deg.	288°	286°	352°	
		Valve opening overlap	58°	59°	118°	
		Material	Alloy steel; aluminized face all engines except V8-350			
		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	46° (seat) 45° (face)			
		Seat insert material	None			
		Stem diameter	.3410-.3417	.3715 - .3722		
		Stem to guide clearance	.0010 - .0027			
		Lift (+ zero lash)	.3900	.3983	.4614	
Intake	Outer spring press. & length	Valve closed (lb. in.)	76-84 @ 1.70	69-81 @ 1.88		
		Valve open (lb. in.)	194-206 @ 1.25	228-252 @ 1.38		
	Inner spring press. & length	Valve closed (lb. in.)	Spring damper		26-34 @ 1.78	
		Valve open (lb. in.)	Spring damper		81-99 @ 1.28	
			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	1.595-1.605	1.715 - 1.725	
		Angle of seat & face	46° (seat) 45° (face)			
		Seat insert material	None			
		Stem diameter	.3410-.3417	.3713 - .3720		
		Stem to guide clearance	.0010 - .0027			
		Lift (+ zero lash)	.4100	.4300	.4800	
Exhaust	Outer spring press. & length	Valve closed (lb. in.)	76-84 @ 1.70	69-81 @ 1.88		
		Valve open (lb. in.)	194 - 206 @ 1.25	228-252 @ 1.38		
	Inner spring press. & length	Valve closed (lb. in.)	Spring damper		26-34 @ 1.78	
		Valve open (lb. in.)	Spring damper		81-99 @ 1.28	

ENGINE – LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from camshaft bearing
	Cylinder walls	Pressure jet cross sprayed

(Continued)

(a) Head also aluminized on V8-454

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (e)

	V8-350 250 & 300 HP	V8-400 265 HP	V8-454 330 HP	V8-454 360 HP
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ENGINE – LUBRICATION SYSTEM (cont.)

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-30, 10W-40 Below 20° F - 5W, 5W-20, 5W-30
Engine Service Reqmt. (MM, MS, etc.)	MS or DG

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	2.00 x .069 (a)
	Main 2.50 x .082 laminated	
Tail pipe dia. (O.D. & wall thickness)	1.88 x .069	(b)

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Ventilates to induction system
	Optional	None
Control Unit	Make and model	AC Spark Plug
	Location	Left front rocker cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum
	Control method (variable orifice, fixed orifice, other)	Variable orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner
	Flame arrestor (screen, check valve, other)	Screen

(a) Pipe-muffler to resonator

(b) Oval type extension - .060 wall thickness

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (e)

MODEL	V8-350		V8-400	
	250 HP	300 HP	265 HP	330 HP

ENGINE - EXHAUST EMISSION CONTROL

MANUAL TRANSMISSION

Type (Air injection, engine modifications, other)		Engine Modifications				
Air Injection Pump	Type -	NOT APPLICABLE				
	Displacement					
	Drive ratio					
	Drive type					
	Relief valve (type)					
Air Injection System	Filter (describe)	REFER TO PAGE 10A				
	Air distribution (head, manifold, etc.)					
	Point of entry					
	Injection tube I.D.					
	Check valve type					
Carburetor	Backfire protection (type)	REFER TO PAGE 10A				
	Make					
	Model					
	Barrel size					
	Idle speed					Drive
	Neutral					
	Idle A/F mixture					
Distributor	Aux. Adv. Systems (type)	Transmission vacuum controlled spark advance				
	Make	Delco-Remy				
	Model	1112001	1111996	1111492	1111998	
	Cent'gal adv. in crank degrees @ eng. rpm	Start (rpm)	1000	950	1000	900
		Intermed. points deg. @ rpm	15 @ 1800	20 @ 1800	20 @ 2450	17 @ 2000
		Max. deg. @ rpm	36 @ 4100	30 @ 4700	32 @ 4400	32 @ 5000
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	7.00	8.00	8.00	
		Intermed. points deg. & in. Hg	None			
		Max. deg. @ in.	24 @ 17.5	20 @ 17	15 @ 15.5	
		Vacuum Source	Carburetor			
Timing - Crank degrees @ rpm	TDC @ 750	TDC @ 700	4 BTDC @ 700			
Cooling System (describe changes)	-----					
Exhaust System (describe changes)	-----					

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (e)

MODEL	V8-350	V8-400	V8-454
	250 HP	300 HP	265 HP 330 HP 360 HP

ENGINE - EXHAUST EMISSION CONTROL

AUTOMATIC TRANSMISSION

Type (Air injection, engine modifications, other)		Engine modifications				
Air Injection Pump	Type	NOT APPLICABLE				
	Displacement					
	Drive ratio					
	Drive type					
	Relief valve (type)					
Air Injection System	Filter (describe)	REFER TO PAGE 10A				
	Air distribution (head, manifold, etc.)					
	Point of entry					
	Injection tube I.D.					
Carburetor	Check valve type	REFER TO PAGE 10A				
	Backfire protection (type)					
	Make					
	Model					
	Barrel size					
Idle speed	Drive	REFER TO PAGE 10A				
	Neutral					
Idle A/F mixture		REFER TO PAGE 10A				
Aux. Adv. Systems (type)						
		Transmission vacuum controlled spark advance				
Make		Delco-Remy				
Distributor	Model	1112002	1111997	1111494	1111998	1111963
	Start (rpm)	1100	950	1083	900	1085
	Cent'gal adv. in crank degrees	8 @ 1400	20 @ 1800	12 @ 2000	17 @ 2000	17 @ 2100
	Intermed. points deg. - rpm					
	Max. deg. - rpm	32 @ 4400	30 @ 4700	28 @ 4400	32 @ 5000	24 @ 3200
Vacuum adv. in crank degrees - eng. rpm	Start (in Hg)	7.00	8.00	8.00		
	Intermed. points deg. - in. Hg	None				
	Max. deg. - in.	24 @ 17.5	20 @ 17	15 @ 15.5		
	Vacuum Source	Carburetor				
Timing - Crank degrees - rpm		4 BTDC @ 600		8 BTDC @ 600		4 BTDC @ 600
Cooling System		- - - -				
Exhaust System		- - - -				

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED ^(*)

MODEL	V8-350	V8-400	V8-454
	250 HP	300 HP	360 HP

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor	
Fuel Tank	Refill capacity (U.S. gals.)	20 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 PSI *	
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	
Choke type		Automatic	
Intake manifold heat control (exhaust or water)		Exhaust	
Carburetor	Air cleaner type	Standard	Thermostatically controlled: Oil wetted paper element
		Optional	None
Idle speed (spec. neutral or drive)	Manual (N)	750	700
	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		
	350 250hp	Manual	Rochester	7040113(a)	One; 2-bbl	1.69
		Automatic		7040114(b)		
	350 300hp	Manual	Rochester	7040203	One; 4-bbl	1.38 Prim 2.25 Sec
		Automatic		7040202		
	400 265hp	Manual	Rochester	7040117(c)	One; 2-bbl	1.69
		Automatic		7040118(d)		
	400 330hp	Manual	Rochester	7040201	One; 4-bbl	1.38 Prim 2.25 Sec
		Automatic		7040200		
	454 360hp	Automatic	Rochester	7040200	One; 4-bbl	1.38 Prim 2.25 Sec
	(a)	7040115 with Air	Conditioning			
	(b)	7040116 with Air	Conditioning			
	(c)	7040117 with Air	Conditioning			
(d)	7040120 with Air	Conditioning				

* Shut off pressure - 1800 rpm at pump outlet

AMA Specifications—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (*)

MODEL Evaporation Emission Control System (California vehicles)

Fuel Tank Capacity - 18 Gals. (approximately)

Components:-

Fill Limiter - Shaped metal pan welded inside of gas tank to reserve space for normal gasoline expansion and contraction.

Canister- Canister of activated carbon stores vapors vented from gas tank until removed and burned in the engine.

Liquid Separator - Connected in vent lines to canister. Separates and returns liquid fuel to the tank.

Constant flow purge line - Incorporates an orifice to regulate flow to manifold under (canister to manifold) all engine operating conditions, including idle.

Variable Flow Purge Line - Becomes functional above engine idle speeds to more (canister to air cleaner) completely purge the canister (snorkel)

Aluminum Heat Dissipator - Positioned between insulation blocks and intake manifold. Provides optimum heat transfer to surrounding atmosphere.

Carburetor Model No.'s

	<u>V8-350</u>	<u>V8-350</u>	<u>V8-400</u>	<u>V8-400</u>	<u>V8-454</u>
	<u>250 HP</u>	<u>300 HP</u>	<u>265 HP</u>	<u>330 HP</u>	<u>360 HP</u>
Manual	7040413	7040503	7040417	7040501	7040501
Manual with A/C	7040415	7040503	7040419	7040501	7040501
Automatic	7040414	7040502	7040418	7040500	7040500
Automatic with A/C	7040416	7040502	7040420	7040500	7040500

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MODEL	V8-350	V8-400	V8-454
	250 HP 300 HP	265 HP 330 HP	360 HP

ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure			
Radiator cap relief valve pressure		15 ± 1 PSI			
Circulation thermostat	Type (choke, bypass)	Choke			
	Starts to open at (°F)	192° - 198°			
Water pump	Type (centrifugal, other)	Centrifugal			
	GPM - 1000 pump rpm	23 @ 2000	24 @ 2000	23 @ 2000	25 @ 2000
	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	23	22	
	Without heater (qt.)	15	22	21	
	Opt. equipment-specify (qt.)	16	24	23	
Water jackets full length of cyl. (yes, no)		Yes		No	
Water all around cylinder (yes, no)		No	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		17.62	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	
	Generator or alternator		A	D	
	Water Pump		A	D	
	Power Steering		B	E	
	Air Conditioning		C	F	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K	
Angle of V	38°											
Nominal length (SAE)	44.25	36.00	54.33	45.75	41.00	57.00						
Width	380											

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	V8-350	V8-400	V8-454
MODEL	250 HP 300 HP	265 HP 330 HP	360 HP

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model	Delco-Remy 1980030		1980080
	Voltage Rtg. & Total Plates	12 volts - 66 plates		12 V. & 98 pl
	SAE Designation & Amp. Hr. Rtg.	61 amp hr @ 20 hr rate		62 amp @ 20
	Location	Right side of engine compartment		
	Terminal grounded	Negative		
Generator or Alternator	Make	Delco-Remy		
	Model	1100834		
	Type and rating	Diode rectified 37 amps		
	Output at engine idle (neutral)	13 amps		
	Ratio-Gen. to Cr.'s rev.	2.53:1		
Regulator	Make	Delco - Remy		
	Model	1119515		
	Type	Vibrator		
	Cutout relay	Closing voltage at generator rpm	None	
		Reverse current to open	None	
	Regu- lated	Voltage	13.8 - 14.8 @ 85° F	
		Current	- - -	
	Voltage test conditions	Voltage	Operating	
		Load	3-8 amperes	
		Other	None	

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make	Delco-Remy			
	Model	1108338 (a)	1108430		
	Rotation (drive end view)	Clockwise			
Motor control	Switch (solenoid, manual)	Solenoid			
	Starting procedure	Manual-Place gearshift lever in neutral & depress clutch Automatic-Place control 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	9
		Flywheel	Manual	153	168
	Auto.		153	168	
	Flywheel tooth face width	Manual	.4010 - .4130	.4100-.4220	- -
Auto.		.4010 - .4130	.4100 - .4220		

(a) 1108427 with automatic transmission

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MODEL	V8-350	V8-400	V8-454
	250 HP	300 HP	360 HP

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	Engine stopped	4.0
		Engine idling	1.8
Distributor	Make		
	Model		
	Cent'gal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	
		Intermediate points deg. @ rpm	
		Max. deg. @ rpm	
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	
		Intermediate points, deg. @ in. Hg.	
		Max. deg. in. Hg.	
	Breaker gap (in.)	.019	
	Cam angle (deg.)	29-31	
Breaker arm tension (oz.)	19-23		
	28-30		
Timing	Crankshaft deg. @ rpm	Refer to page nine	
	Mark location	Torsional damper	
Spark Plug	Make	AC Spark Plug	
	Model	AC R44 AC R44T AC R43T	
	Thread (mm)	14	
	Tightening torque (lb. ft.)	25	
	Gap	.033 - .038	
Cable	Conductor type	Linen core impregnated with electrical conducting materi	
	Insulation type	Rubber with neoprene jacket	
	Spark plug protector	Neoprene	

REFER TO PAGE NINE

ELECTRICAL - SUPPRESSION

Locations & type	Non - metallic high ignition cables
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MODEL _____

ELECTRICAL — INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Dial with pointer
	Trip odometer (yes,no)	No
Charge indicator — type		Tell-Tale
Temperature indicator — type		Tell-Tale
Oil pressure indicator — type		Tell-Tale
Fuel indicator — type		Electric gauge
Other		Refer to page 23
Windshield wiper	Type — Standard	Electric, two - speed
	Type — Optional	None
Windshield washer	Type — Standard	Push - button
	Type — Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	4.5-6.5 @ 12.5 V (low note); 4.2-6.2 @ 12.5 V (high note)

DRIVE UNITS — CLUTCH (Manual Transmission)		V8-350	V8-400		
		250 HP	300 HP	265 HP	330 HP
Make & type		Chevrolet, single dry disc, centrifugal			
Type pressure plate springs		Diaphragm, bent finger design			
Total spring load (lb.)	2100-2300	2450-2750			
No. of clutch driven discs		One			
Clutch facing	Material	Woven type asbestos			
	Outside & inside dia.	10.34x6.50	11.00 x 6.50		
	Total eff. area (sq.in.)	101.54	123.70		
	Thickness	.135	.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			

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MODEL _____

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Optional

DRIVE UNITS – MANUAL TRANS.

		V8-350 250 HP	V8-350 250 HP 300 HP		V8-400 265 HP 330 HP	
Number of forward speeds		3-speed	4-speed			
Transmission ratios	In first	2.54	2.54	2.52	2.52	
	In second	1.50	1.80	1.88	1.88	
	In third	1.00	1.44	1.46	1.46	
	In fourth	---	1.00	1.00	1.00	
	In reverse	2.63	2.54	2.59	2.59	
Synchronous meshing, specify gears		All forward speeds				
Shift lever location		Steering column 3-speed Floor mounted 4-speed				
Capacity (pt.)		3				
Type recommended		Meeting Military Specs MIL - L - 2105B				
Lubricant	SAE viscosity number	SAE 80				
	Summer	SAE 80				
	Winter	SAE 80				
Extreme cold		SAE 80				

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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

NOT AVAILABLE

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MODEL 250 HP | 300 HP | V8-350 & 400(265HP) | V8-400(330HP)& 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-1.76 N-Neutral D-176-1.00 L-1.76	P-Park R-1.93 N-Neutral D-2.52-1.52-1.00 L ₂ -2.52-1.52 L ₁ -2.52
	P-Park R-2.00 N-Neutral D-2.48-1.48-1.00 L ₂ -2.48-1.48 L ₁ -2.48	
Max. upshift speed—drive range	74	87
Max. kickdown speed—drive range	59	78
		**
Torque converter	Number of elements	3
	Max. ratio at stall	2.10
	Type of cooling (air, liquid)	Water
	Nominal diameter	11.75
		11.75
		12.20
Lubricant	Capacity—refill (pt.)	6.5
	Type recommended	5
		8
		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 thickness	Manual 3-speed trans.	3.25 x 56.34 x .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 Base & V8-400 265 HP (1-2 50; 2-3 84); V8-350 300 HP (1-2 53; 2-3 8 V8-400 330 HP (1-2 59; 2-3 79); V8-454 (1-2 42; 2-3 70)

Kickdown: V8-350 Base & V8-400 265 HP (2-1 39; 3-2 80); V8-350 300 HP (2-1 38; 3-2 8 V8-400 330 HP (2-1 31; 3-2 72); V8-454 (2-1 31; 3-2 65)

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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
	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)		Prepack
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 on single row cylindrical	
Lubricant	Capacity (pt.)	3.75 (8.125 ring gear); 4.25 (8.875 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 3 for axle ratio usage)

Axle ratio		2.73	3.08	3.36	2.56	2.73	3.31
No. of teeth	Pinion	15	12	21	16	15	13
	Ring gear	41	37	37	41	41	43
Ring Gear O.D.		8.125			8.875		

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MODEL _____

DRIVE UNITS – WHEELS

Type & material		Short spoke disc; steel	
Rim (size & flange type)	Std.	15 x 6J	
	Opt.	15 x 7JK	
Attachment	Type (bolt or stud)	Stud	
	Circle diameter	4.75	
	Number and size	5 hex nuts 7/16-20 UNF-2B	

MODEL _____

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		G78-15 (2 ply-4 ply rating) Base except 454 CID; G70-15B Base for 454 CID	
	Type (bias, radial, etc.)		Bias	
	Full rated Inflation Press.*	Front	Cold 24; Hot 30	
		Rear	Cold 28; Hot 34	
Rev./Mile at 45 MPH		749		
Optional	Size, ply rating, & ply		G70-15 (2 ply - 4 ply rating) except 454 CID	

BRAKES – PARKING

Type of control		Foot pedal apply; handle release	
Location of control		Lower edge of instrument panel, left of steering column	
Operates on		Rear service brakes	
If separate from service brakes	Type (internal or external)	-----	
	Drum diameter	-----	
Lining size (length x width x thickness)		-----	

* Pressure shown are up to base vehicle load limit.

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MODEL _____
BRAKES—SERVICE

Type (drum) or (disc & no. of pistons)		Disc - Front; (a)	Drum (finned)-rear	
Self adjusting (std., opt., N.A.)		Standard		
Special Valving	Type (proportion, delay, metering, other)	Metering	Proportion	
Power brake make & type (remote, int., etc.)	Std. Opt.	Standard; Delco-Moraine		
Effective area (sq. in.) *	●	106.1		
Gross lining area (sq. in.) **	●	118.1		
Swept area (sq. in.) ***		332.4		
Front to Rear Effectiveness Relationship				
Drum	Diameter (nominal)	Front	Rear	
	Type and material	Cast iron		
Rotor	Outer working diameter	11.00		
	Inner working diameter	7.18		
	Working width	1.00		
	Material & type (vented/solid)	Vented		
Wheel cylinder bore	Front	2.938		
	Rear	.875		
Master Cylinder	Bore	1.125		
	displacement distribution	Front %	73	
		Rear %	27	
Pedal arc ratio		3.53		
Line pressure at 100 lb. pedal load		805		
Shoe Clearance	Front	Self adjusting		
	Rear	Self adjusting		
Brake lining	Bonded or riveted		Riveted	
	Front Wheel	Material	Bonded	
		Size (length x width x thickness)	Prim. or out-board	Molded asbestos
			Second. or in-board	5.96 x 2.21 x .41
	Segments per shoe	One		
	Rear Wheel	Material	Molded asbestos	
		Size (length x width x thickness)	Prim. or out-board	9.01 x 2.0 x .17
Second. or in-board			9.75 x 2.0 x .20	
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) Single piston, floating caliper

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MODEL _____

STEERING

Manual (std., opt., NA)		Standard-energy absorbing steering column	
Power (std., opt., NA)		Optional	
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt: tilt achieved with universally-jointed steering shaft at base of steering wheel; 5 inch vertical travel range	
	(std., opt., NA)	Optional	
Wheel diameter	Manual	16.25 x 15.50 (Oval)	
	Power	Same as manual	
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	Semi-reversible, recirculating ball nut
		Make	Saginaw Steering
	Ratios	Gear	24:1
		Overall	27.9:1
	No. wheel turns (stop to stop)		5.2
Power	Type (coaxial, linkage, etc.)		Integral gear with vane type pump
	Make		Saginaw Steering
	Gear	Type	Same as manual
		Ratios	Gear
	Overall		18.7:1-12.4:1
	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 at camber (deg.)		7-3/4 to 8-3/4
	Bearings (type)	Upper	Ball stud with non metallic surfaces
		Lower	Ball stud with non metallic surfaces
		Thrust	None
Whl. Align. (range of curb wt. & preferred)	Caster (deg.)		N 1-1/2 to N 1/2; pick-up N 1 to 0
	Camber (deg.)		0 to P1
	Toe-in (outside track inches)		1/8 to 1/4
Steering spindle & joint type		Forging with pad for mounting brake cylinder, spherical	
Wheel Spindle	Diameter	Inner bearing	1.2493-1.2498
		Outer bearing	.7493-.7498
	Thread size		3/4-20 NEF - 3 (modified)
	Bearing type		Taper roller

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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 & rear bumper
Shock absorber front & rear	Direct double acting hydraulic
Type	
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.)	11.7 x 3.63; 133.40 x .595
	Spring rate (lb. per in.)	250
	Rate at wheel (lb. per in.)	93.4
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	HR steel .937

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.)	14.70 x 5.50; 103.8 x .522
	Spring rate (lb. per in.)	100
	Rate at wheel (lb. per in.)	107.6
	Mounting insulation type	Natural rubber
	If leaf	Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	None
	Material	---
Track bar type	None	

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MODEL _____

FRAME _____

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

All welded perimeter frame with cross member rear suspension cross member and rear cross member

BODY - MISCELLANEOUS INFORMATION

Sport Coupe

Convertible

Drs. hinged (front, rr.)	Front doors	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	No ventipane
	Rear	None
Seat cushion type	Front	Formed wire and foam pad
	Rear	Formed wire, foam pad and cotton
	3rd seat	None
Seat back type	Front	Formed wire and foam pad
	Rear	Formed wire, foam pad and cotton
	3rd seat	None
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)		Tempered plate Curved
Windshield glass exposed surface area	1208.7	1211.8
Side glass exposed surface area	1225.4	1260.4
Backlight glass exposed surface area	1059.4	539.7
Total glass exposed surface area	3493.5	3011.9

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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 exc. conv. (standard)
Mirror Maplight		Optional
Auto. trans. quad. lamp		Standard
Cornering light lamp		NA
Finger tip washer-wiper control		Optional
Windshield antenna		Available with factory installed radio

LAMP HEIGHT AND SPACING

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

* If single headlamps are used enter here.

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WEIGHTS

Model	CURB WEIGHT* POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
	Fron.	Rear	Total	Pass. In Front		Pass. In Rear		Fuel	Coolant
				Front	Rear	Front	Rear		
2-door Sport Coupe-13857	1954	1609	3563	46.6	53.4	20.0	80.0	122.4	32.9
2-door Convertible-13867	1954	1671	3625	46.6	53.4	20.0	80.0	122.4	32.9

Accessories & Equipment Differential Weights	Remarks
350 cu.in. V8 (250 H.P.)	+ 18 With 4-Speed transmission
350 cu.in. V8 (250 H.P.)	+ 2 With Powerglide transmission
350 cu.in. V8 (250 H.P.)	+ 28 With Turbo Hydra-Matic transmission
350 cu.in. V8 (250 H.P.)	+ 15 With 4-Speed transmission
350 cu.in. V8 (250 H.P.)	+ 6 With Powerglide transmission
350 cu.in. V8 (250 H.P.)	+ 36 With Turbo Hydra-Matic transmission
400 cu.in. V8 (265 H.P.)	+ 15 With 4-Speed transmission
400 cu.in. V8 (265 H.P.)	+ 36 With Turbo Hydra-Matic transmission
402 cu.in. V8 (330 H.P.)	+205 With 4-Speed transmission
402 cu.in. V8 (330 H.P.)	+248 With Turbo Hydra-Matic transmission
454 cu.in. V8 (360 H.P.)	+284 ^(a) With Turbo-Hydra-Matic transmission
Power windows	+ 23
Air Conditioning	+ 93
Power Steering	+ 29
Tape Player	+ 25 AM Radio: +39. AM/FM Radio
Push Button Radio	+ 8
Radio Stereo	+ 16

(a) Includes additional chassis and body equipment, available as 'SS' equipment only.

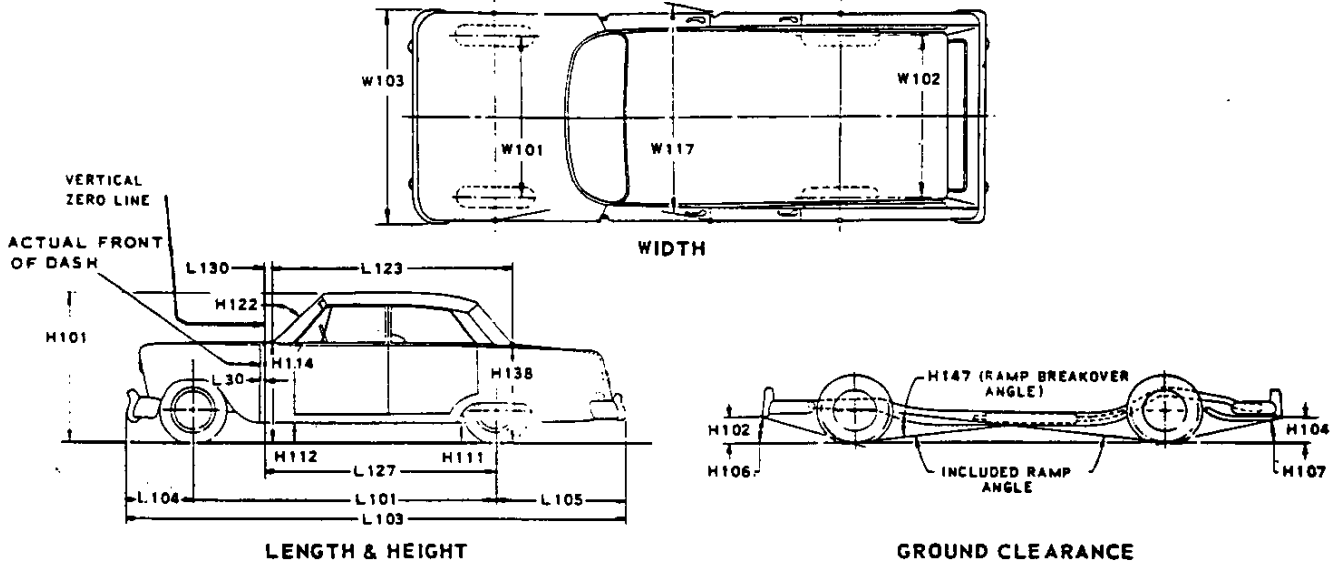
*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

AMA Specifications—Passenger Car

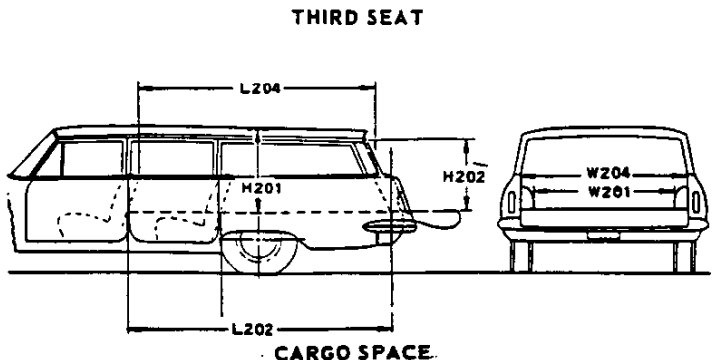
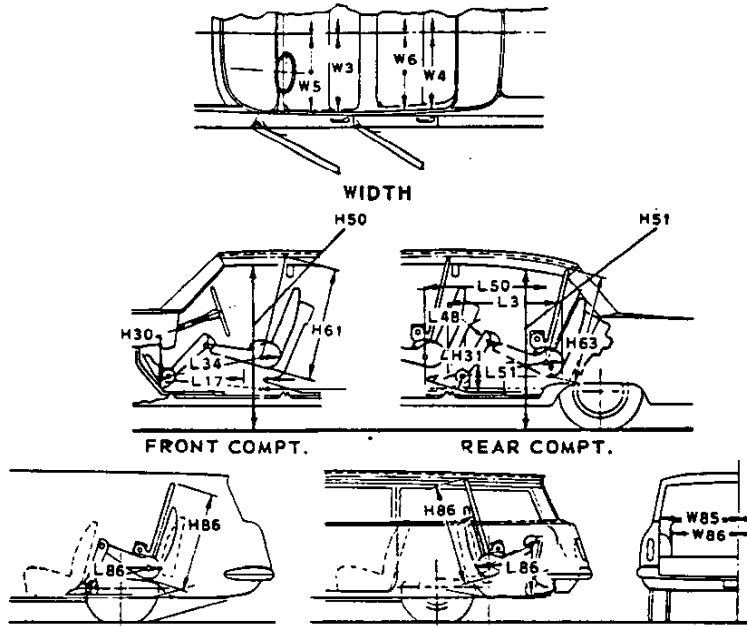
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

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

EXTERIOR LENGTH DIMENSIONS

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

EXTERIOR HEIGHT DIMENSIONS

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

GROUND CLEARANCE DIMENSIONS

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

FRONT COMPARTMENT DIMENSIONS

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

FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
 W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.
 H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.
 REAR COMPARTMENT DIMENSIONS
 L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
 H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
 L 51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
 H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
 L 48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
 L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
 W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
 W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
 H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

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

STATION WAGON - THIRD SEAT DIMENSIONS

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

STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
 L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
 W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheelhousings 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 lift-gates fully open.
 V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201

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