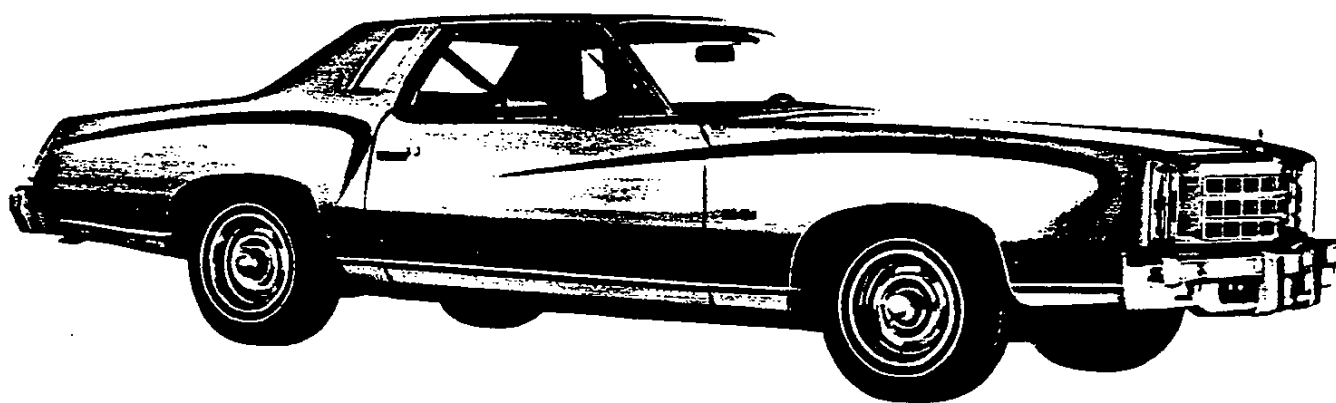




Chevrolet



1977 Monte Carlo

GENERAL

ORIGINAL COPY

MODEL IDENTIFICATION	2
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MODEL IDENTIFICATION

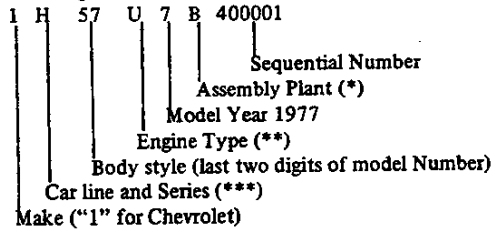
BODY	SERIES NAME	BODY STYLE	MODEL DESIGNATION	PASS OR SEATS
A-SPECIAL	MONTE CARLO "S"	2-Dr. Sport Coupe	1AHS7	6

SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

VEHICLE IDENTIFICATION NUMBER

Vehicle Designation Interpretation



- | | |
|---------------------|-----------------------------|
| *B - Baltimore-GMAD | R - Arlington-GMAD |
| D - Doraville-GMAD | Z - Fremont-GMAD |
| L - Leeds-GMAD | #2 - Oshawa (Canadian Plt.) |
- **U - V8-305 (145 H.P.) L - V8-350 (170 H.P.)
- *** - Monte Carlo

EXAMPLE: The twenty-fifth Monte Carlo vehicle built at GMAD Baltimore 1A H57 model (Monte Carlo Sport Coupe) with a V8-305 (145 H.P.) engine would bear VIN number 1H57U7B400025

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

TRANSMISSION IDENTIFICATION

Example: Y7E01

Type Designation	Source Designation	Model Year	Production ^o Month & Date
AF	Y - Toledo	7	E01D*

AF	Turbo Hydra-matic	V-8 engine	D - Parma Y - Toledo
----	-------------------	------------	-------------------------

Turbo Hydra-matic (Chevrolet) Stamped on right side transmission, above filler plug.

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

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

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

ENGINE IDENTIFICATION

Example: F1210CPY

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

305 Cubic Inch V-8, Base Engine

CPY - Regular engine, Turbo Hydra-matic (Chevrolet)

350 Cubic Inch V-8, (RPO LM1)

CKH - Optional engine, Turbo Hydra-matic (Chevrolet)

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

- CB - 2.56 Axle
- CF - 3.08 Axle

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

<u>FRONT</u>	<u>MONTE CARLO MODEL 'S'</u>
Bright Windshield Reveal Molding	X
Concealed Windshield Wipers and Articulated Left Blade	X
Bright Hood Rear Molding (at Cowl)	X
Rectangular Fender Mounted Parking Lamp with White Lens and Amber Bulb	X
Radiator Grille, New Light Weight Chrome Plated	X
Headlamps Dual, Rectangular	X
Bright Headlamp Rings	X
Crest Emblem on Radiator Grille (Center)	X
Radiator Header Panel Nameplate "Monte Carlo"	X
<u>SIDE</u>	
Sail Panel Crest	X
Rectangular Bright LH Outside Rear View Mirror	X
Body Side Lower Molding – Argent Accented between Wheels; and Argent Painted Rocker with Bright Molding; Fore and Aft of Wheels – Argent Accented One-Piece Molding	X
Bright Drip Moldings	X
Bright Wheel Opening Moldings	X
Bright Door Corner Molding	X
Bright Belt Bead Molding	X
Wheel Trim Covers	X
Bright Quarter Window Molding	X
Bright Lift Bar Door Handles	X
Front Fender Nameplate Script – "Monte Carlo"	X
Rear Marker Lamp with Red Lens (Framed in Quarter Molding)	X
<u>REAR</u>	
Rear Body Panel Nameplate "Monte Carlo by Chevrolet" – Script and Block on Bow Tie	X
Rear Window Reveal Molding	X
Backup Lamps, Located at the Base of Tail Lamps	X
Tail Lamp Mounted in Rear Quarter End Cap; Bright Molding	X

STANDARD INTERIOR EQUIPMENT

ROOF AND PILLARS	MONTE CARLO 'S'
Headlining Vinyl Coated, "Premier" Perforated	X
Rear View Mirror 12" Prismatic - Textured Black Metal Vinyl Clad	X
Rear View Mirror Support, Bonded to W/S, Black Painted	X
Sunshade, Padded, Non-Hook	X
Roof Side Rail Garnish Moldings - Plastic	X
Rear Window Moldings - Plastic	X
Rear Window Upper and Side Moldings - Plastic	X
Windshield Garnish Moldings - Painted Plastic	X
Rear Quarter Upper Trim Panel, Molded Plastic	X
Coat Hooks, Plastic - Trim Color	X
Center Dome Light - Plastic Lens	X
Front Door Jamb Switch, Key Reminder and Dome Lamp, L.H. Pillar	X
Front Door Jamb Switch for Dome Lamp R.H. Pillar	X
SEATS AND FLOOR COVERING	
Front and Rear Seat Cushion and Backrest, Full Molded Foam	X
Three Point Front Seat Outboard Belt System (Lap & Shoulder)	
Locking Lap Belt Retractors, Inertial Reel Type Shoulder	
Belt Retractors, Black	X
Front Seat Center Lap Belt, Black	X
Front Seat Head Restraints	X
Front Seat Backrest End Molding - Bright	X
Package Shelf Embossed Board	X
Carpet, Floor Covering - Nylon Cut Pile	X
DOOR AND QUARTER PANEL	
Plastic Molded Front Door Lower Trim Panel, W/Armrest	X
Plastic Molded Rear Door Lower Trim Panel, W/Armrest with Ash Tray	X
Soft Trim Door Upper Panel	X
Pull Type Door Handle	X
Rear Quarter Panel Build-in Armrest and Ash Tray	X
Window Control Handle Knobs, Clear Plastic	X
Door Lock Buttons - Bright	X
Door Trim Panel Emblem	X
Front and Rear Door Locks 2-Position Free Wheeling	X
Front Door Pull Strap	X
Rear Quarter Sidewalls - Vinyl Trimmed	X
LUGGAGE AREA AND MISC.	
Luggage Compartment Spatter Paint	X
Dual Horns	X

INTERIOR EQUIPMENT

STANDARD INTERIOR EQUIPMENT

<u>INSTRUMENT PANEL AND STEERING WHEEL</u>	<u>MONTE CARLO 'S'</u>
Glove Compartment Light	X
Heater Control Light	X
Temperature, Generator, Oil Pressure, Brake and Seat Belt Warning Lights	X
Hi-Beam and Turn Signal Indicators	X
Bright Cowl Vent Control Knob	X
Bright Astro-Ventilation Control Knob	X
Two-Speed Windshield Wiper and Washer Switch (Slide Type Depress to Wash) - Illuminated	X
Bright Lighting Control Knob with Woodgrain Applique	X
Black Hazard Flasher Knob	X
Radio Knobs - Bright with Woodgrain Applique	X
Soft Black Turn Signal and Transmission Shift Lever Knobs	X
Steering Column Ignition Switch with Integral Steering Wheel and Transmission Lock	X
T-Handle Parking Brake Release	X
T-Handle Interior Hood Release	X
Blended Air Heater	X
Ash Tray	X
Cigarette Lighter	X
100 MPH (160 KPH) Speedometer and Odometer, Clock and Fuel Gage	X
Instrument Panel Pad Color-Keyed to Interior	X
Instrument Panel Astro-Ventilation Outlets (R&L)	X
Glove Compartment Door Lock	X
Wood-Grain Cluster Surface	X
Color Keyed Steering Wheel and Column	X
Steering Wheel with Wood Grain Insert and "Chevrolet" Nameplate	X
Plastic Cowl Kick Pads	X
Electric Clock	X
Fuel Gage ("Unleaded Fuel Only")	X
 <u>GLASS</u>	
Laminated Safety Plate Glass Windshield (Thin Design)	X
Solid Safety Plate Backlight	X
Solid Safety Plate Side Windows	X

EXTRA COST EQUIPMENT

<u>EQUIPMENT</u>	<u>RPO</u>	<u>ACC.</u>
<u>MODEL OPTIONS</u>		
Monte Carlo 'Landau' (see page 10 for content)	Z03	
<u>POWER TEAMS</u>		
Turbo-Fire 350 Cu. In. V-8	LM1	
Axle Positraction	G80	
<u>FACTORY INSTALLED REGULAR PRODUCTION TIRES</u>		
GR70-15 Steel Belted Radial Ply Whitewall	QCX	

EXTRA COST EQUIPMENT

<u>EQUIPMENT</u>	<u>RPO</u>	<u>ACC</u>
<u>POWER ASSISTS</u>		
Locks, Electric Door	AU3	
Rear Compartment Remote Control Electric Lock	A90	
Seat, 6-Way Electric Control Bench	A42	
Window, Electric Control	A31	
<u>OTHER OPTIONS</u>		
Air Conditioning, Four-Season (see page 11 for content)	C60	
Alarm, Theft		X
Battery Blanket		X
Battery, Heavy Duty	UA1	
Belts, Deluxe Seat and Shoulder (Color Keyed to Interior)	AK1	
Bumper Guards Front & Rear	V30	X
Bumper Impact Strips, and Bumper Guards Front and Rear	VE5	
Cap, Locking Gas Filler		X
Compass		X
Console, Front Compartment Floor	D55	
Container, Litter		X
Defogger, Rear Window (Forced Air)	C50	X
Dispenser, Tissue		X
Gauges, Instrument Panel	UF7	
Generator, 61-Amp Delcotron	K76	
Glass, Tinted - All Windows	A01	
Glass, Tinted - Windshield only (Fleet use and Canadian use only)	A02	
Guard, Vinyl Door Edge		X
Guard Door Edge Stainless Steel	B93	X
Harness, Trailering Wiring		X
Hitch, Trailer - Equalizing Type		X
Hitch, Trailer - 2000 Lb. Class		X
Heater, Engine Block		X
Lighting, Auxiliary	ZJ9	
Engine Compartment Lamp		
Passenger Compartment Courtesy Lamps		
Glove Compartment Lamp		
Map Lamp		
Luggage Compartment Lamp		
Ash Tray Lamp		
"Headlamp On" Buzzer		
Litter Container (Integrated with RH kick panel)	D24	
Luxury Interior Trim	Z06	
Mats, Front and Rear, Color Keyed, 2 Front and 2 Rear	B37	X
Mirrors, Sport Outside Rear View Body Color - LH Remote Control and RH - Manual Control	D35	
Mirror, Outside Remote-Control, Rear View LH	D33	
Mirror, Visor Vanity	D34	X
Mirrors, Sport Outside Rear View Remote Control Body Color	D68	

EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
<u>OTHER OPTIONS</u>		
Mirror, RH		X
Mirror, Trailering – Fender Clamp		X
Radiator, Heavy Duty	V01	
Molding, Body Side – Vinyl Insert	BW2	
Radio, Equipment: Radios, Pushbutton – Includes concealed w/s antenna.		
AM Radio	U63	X
AM/FM Radio	U69	X
AM/FM/Stereo Radio	U58	X
Stereo Tape System with AM Radio	UM1	X
Stereo Tape System with AM/FM Radio	UM2	X
Speaker, Rear Seat	U80	X
Roof Cover Landau	CB4	
Roof Cover, Vinyl	C09	
Radio, Citizens Band		X
Seat, Safety – Child		X
Seat, Safety – Infant		X
Seat, Special Contour Bucket – 90° Swivel	AN7	
Seat 50/50 Bench	AT8	
Speed Control, Automatic	K30	
Steering Wheel, Comfortilt	N33	
Sun Roof, Electric	CA1	
Suspension, H.D. Front and Rear	F40	
Spotlight, Hand		X
Wheel Covers, Trim	PA3	
Wheel Covers, Simulated Wire	PB2	
Wheel Rally 15 x 7 Hub Cap and Trim Ring	ZJ7	
Warmer, Interior Car		X
Windshield Washer and Wiper – Pulse	CD4	

"LANDAU" OPTION EQUIPMENT

MONTE CARLO 'LANDAU' OPTION RPO Z03

AVAILABILITY

Standard model 1AH57

POWER TRAIN AVAILABILITY

Same as standard model.

CONTENT (In addition to or in place of standard equipment)

EXTERIOR

Specific vinyl roof cover (Landau type)
Pin striping on fender peak, in nine colors
Sport type, body color remote control rear view mirrors,
LH remote, RH manual
Specific sail panel 'Landau' nameplate
'Custom' wheels 15 x 7 (urethane styled) with bright trim
rings and hub caps

INTERIOR

Visor vanity mirror
'Landau' door trim emblem and instrument panel nameplate
Delete Monte Carlo Door Trim Emblem

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 61 Ampere
Radiator Heavier duty

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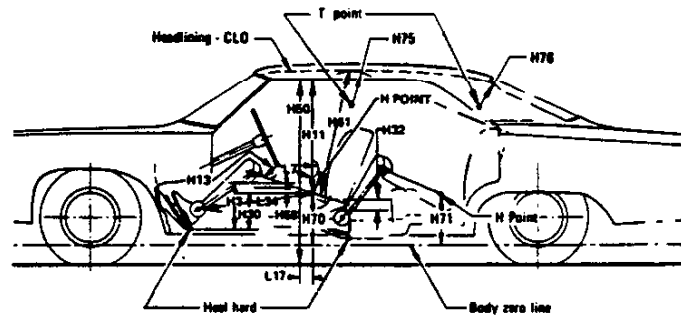
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DIMENSIONS AND WEIGHTS

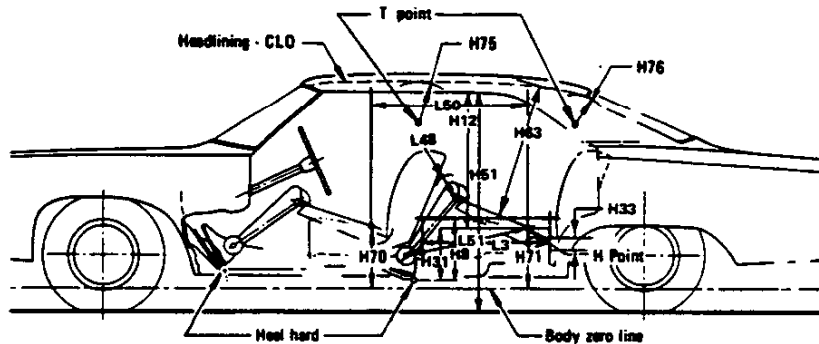
INTERIOR DIMENSIONS	2
LUGGAGE CAPACITY	2
EXTERIOR DIMENSIONS	3 & 4
VEHICLE WEIGHTS	5
OPTIONAL EQUIPMENT WEIGHTS	5

INTERIOR DIMENSIONS



FRONT COMPARTMENT

CODE	DESCRIPTION	SPORT COUPE
H-3	Seat cushion height	10.5
H11	Entrance height	30.2
H13	Steering wheel thigh clearance	3.6
H30	H point to heel point	8.4
H32	Seat cushion deflection	3.1
H50	Upper body opening to ground	49.2
H58	H point rise	0.8
H61	Effective headroom	37.0
H70	H point to body O line	13.1
H75	Effective "T" point headroom	37.2
W3	Shoulder room	58.8
W5	Hip room	54.8
L7	Steering wheel torso clearance	13.1
L17	H point travel	5.1
L34	Effective leg room	42.4



REAR COMPARTMENT

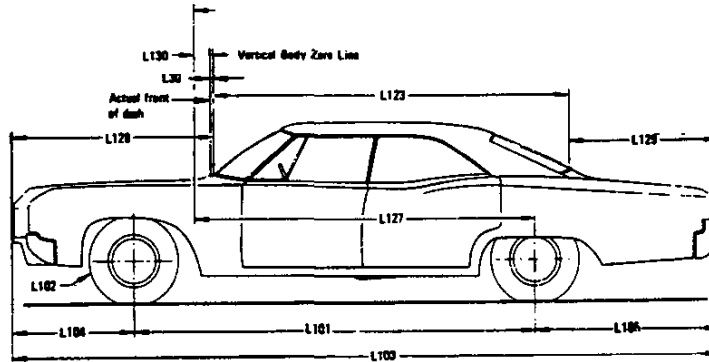
H8	Seat cushion height	12.2
H31	H point to heel point	10.1
H33	Seat cushion deflection	3.7
H63	Effective headroom	37.1
H71	H point to body O line	11.5
H76	Effective "T" point headroom	36.9
W4	Shoulder room	58.1
W6	Hip room	52.7
L3	Rear compartment room	24.2
L50	H point couple distance	31.0
L51	Effective leg room	32.9

LUGGAGE COMPARTMENT

H195	Liftover height	26.0
V1	Usable luggage capacity (cu.ft.) (a)	14.7

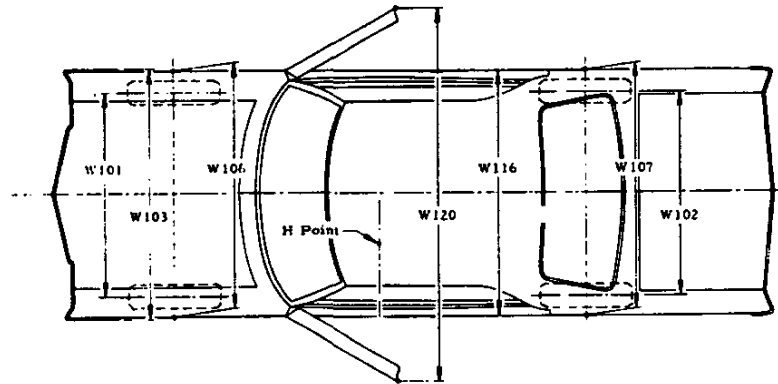
(a) Space saver tire 16.5 (cu.ft.)

EXTERIOR DIMENSIONS



LENGTHS

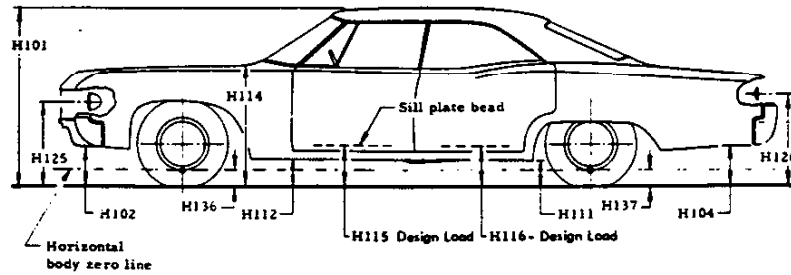
CODE	DESCRIPTION	SPORT COUPE
L101	Wheelbase	116.0
L102	Tire size (standard)	GR 70-15
L103	Overall length	213.3 (with I/Strips 213.7)
L104	Overhang front	43.8 (with I/Strips 44.2)
L105	Overhang, rear	53.5 (with I/Strips 53.6)
-	Overall length - less bumpers	206.7
L123	Body upper structure length at car center line	94.6
L127	Body O line to C/L of rear wheels	93.5
L128	Front end length at center line	65.1
L129	Rear end length at centerline	35.8
L125	Body zero plane to windshield cowl point	10.5
L30	Body O line to actual front of dash	- 0.5



WIDTHS

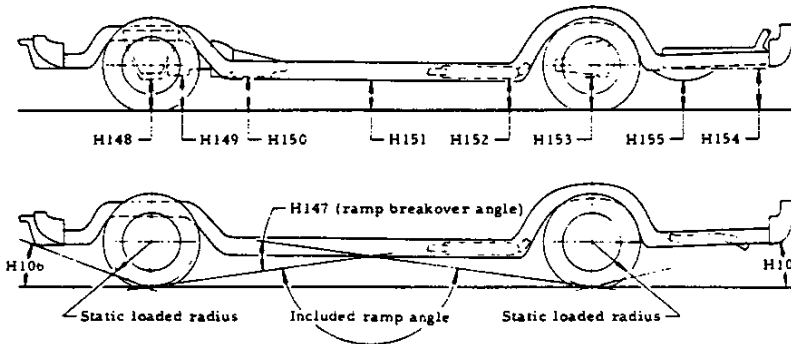
W101	Tread - front	61.9
W102	Tread - rear	60.7
W103	Maximum overall width of car	77.6
W106	Front fender overall width	77.6
W107	Rear fender overall width	75.8
W116	Maximum overall width of body	77.4
W120	Overall car width, front doors open	171.3

EXTERIOR DIMENSIONS



HEIGHTS

CODE	DESCRIPTION	SPORT COUPE
H101	Overall height (design)	52.8
H102	Front bumper to ground	12.3
H104	Rear bumper to ground	12.1
H111	Rocker panel to ground - rear	8.1
H112	Rocker panel to ground - front	8.6
H114	Hood at rear to ground	38.6
H115	Step height - front (design)	12.5
H116	Step height - rear (design)	12.2
H125	Headlamp to ground	30.2
H126	Tail lamp to ground	26.1
H136	Body O line to ground - front	5.9
H137	Body O line to ground - rear	5.4



CLEARANCES

H106	Angle of approach (degrees)	16°20'
H107	Angle of departure (degrees)	17°22'
H147	Ramp breakover angle (degrees)	13°14'
H148	Front suspension to ground	4.9
H149	Oil pan to ground	5.3
H150	Flywheel housing to ground	5.2
H151	Frame to ground	5.7
H152	Exhaust system to ground	5.0
H153	Rear axle to ground	6.8
H154	Fuel tank to ground	6.9
H155	Tire well to ground	--
H156	Minimum ground clearance	5.0 (a)

(a) Catalytic converter.

VEHICLE WEIGHTS

MODEL TYPE			SHIPPING WEIGHT			CURB WEIGHT		
MODEL DESIGNATION	BASE ENGINE	VEHICLE TYPE	Front	Rear	Total	Front	Rear	Total
1AH57	305 Cu.In. V8 LG3	2-Door Sport Coupe	2166	1686	3852	2144	1824	3968

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
AN7	Bucket Seat - Swivel		+ 16
AU3	Electric Door Locks		+ 7
A31	Power Windows		+ 8
A42	Power Seat		+ 22
B37	Front and Rear Floor Mats		+ 9
CA1	Electric - Sun Roof		+ 46
C09	Vinyl Roof Cover		+ 8
CB4	Landau Roof Cover		+ 5
C60	Air Conditioning		+ 90
D55	Console	Used with Automatic Transmission	+ 15
PE2	Polycast Wheel - 15 x 7		+ 30
Z03	Landau Equipment		+ 42
UA1	Battery Heavy Duty		+ 9
U63	Radio AM Pushbutton		+ 6
U69	Radio AM/FM Pushbutton		+ 7
U58	Radio AM/FM Stereo		+ 15
UM1	Radio AM Pushbutton & Tape		+ 20
UM2	Radio AM/FM Pushbutton & Tape		+ 21
V30	Bumper Guards, Frt. & Rr.		+ 10
VE5	Bumper Impact Pads, Frt. & Rr.		+ 11
V01	Radiator, Heavy Duty		+ 10
ZJ7	Spec. Whl. Hub Cap & Tr. Rg.		+ 15
LM1	350 Cu. In. V-8 Engine	Turbo Hydra-Matic Transmission	+ 22



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BODY

EXTERIOR PAINT PROCESS	2
EXTERIOR-INTERIOR COLORS	3,4
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

1977 MONTE CARLO 'SPECIAL A' INTERIOR - EXTERIOR COLOR COMBINATIONS

MODEL	Seat Type	INTERIOR TRIM											
		Black		Light Blue	Dark Green	Light Buckskin		Dark Firethorn		White			
		Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl	† Vinyl /Black	† Vinyl /Dark Blue	† Vinyl /Dark Firethorn	† Vinyl /Dark Green
MONTE Carlo 'S' - 1AH00 Sport Coupe (57)	(A52) Bench	19E	19V	24E	44V		64V	71E	71V	11V	02V	07V	04V
	(AN7) Bucket						64V		71V	11V	02V	07V	04V
Monte Carlo Luxury Sport Coupe (57)	(AT8) 50-50			24G		64G	64W	71G		11W	02W	07W	04W
EXTERIOR COLOR	Color Code	Black		Light Blue	Dark Green	Light Buckskin		Dark Firethorn		White Black	White /Dark Blue	White /Dark Firehorn	White /Dark Green
White	11	R	R	R	R	R	R	R	R	R	R	R	R
Silver Metallic	13	R	-	-	-	-	-	R	-	-	-	-	-
Black	19	R	A	A	R	R	R	R	A	R	-	-	-
Lt. Blue Metallic	22	R	R	-	-	-	-	-	A	R	-	-	-
Dark Blue Metallic	29	A	R	-	-	-	-	-	A	R	-	-	-
Firethorn Metallic	36	A	-	-	-	R	R	R	A	-	R	-	-
Med. Green Metallic	44	A	-	R	A	-	-	-	A	-	-	-	R
Dk. Blue Green Metallic	48	A	-	R	R	-	-	-	A	-	-	-	R
Cream Gold	50	R	-	-	-	-	-	-	R	-	-	-	-
Light Buckskin	61	R	-	-	-	R	R	R	A	-	-	-	-
Buckskin Metallic	63	R	-	-	-	R	-	-	A	-	-	-	-
Brown Metallic	69	-	-	-	-	R	-	-	A	-	-	-	-
Red	72	A	-	-	-	R	-	R	A	-	R	-	-
Orange Metallic	78	R	-	-	-	R	-	-	R	-	-	-	-

R - Recommended

A - Acceptable

CLOTH AND VINYL USAGE

V & W - Wallaby vinyl

E - Durham, 710 WC, knit cloth

G - Frisco, 718 WC velour cloth, Dover bolster.

NOTES: † 11V - White vinyl interior with Black Instrument Panel, Carpet, Cowl Kick Panel and Package Shelf.

† 02V - White vinyl interior with Dark Blue Instrument Panel, Carpet Cowl Kick Panel and Package Shelf.

† 04V - White vinyl interior with Dark Green Instrument Panel, Carpet, Cowl Kick Panel, and Package Shelf.

† 07V - White vinyl interior with Dark Firethorn Instrument Panel, Carpet, Cowl Kick Panel, and Package Shelf.

Override RPO ZF2 will be provided to permit ordering of any interior-exterior color combination.

EXTERIOR-INTERIOR COLORS

EXTERIOR COLORS – VINYL ROOF COMBINATIONS

VINYL TOP COVER (Material - Levant Grain)	EXTERIOR COLOR AVAILABILITY
Silver Metallic	White 11
	Silver Metallic 13
	Black 19
	Dark Blue Metallic 29
	Firethorn Metallic 36
	Red - Medium 72
Black	All available colors, all exc. 69
White	All available colors, all exc. 13
Light Blue Metallic	White 11
	Light Blue Metallic 22
	Dark Blue Metallic 29
Lt. Buckskin	White 11
	Black 19
	Firethorn Metallic 36
	Med. Green Met. 44
	Dark Blue - Green Met. 48
	Buckskin Light 61
	Buckskin Met. 63
	Brown Metallic 69
	Red Med. 72
	Orange Met. 78
Medium Green Metallic	White 11
	Medium Green Met. 44
	Dark Blue - Green Met. 48
Firethorn Metallic	White 11
	Firethorn Metallic 36

BODY CONSTRUCTION AND GLASS AREA

GENERAL

Type Unisteel, with cowl, roof, underbody and body panels welded to form body shell. Doors, front and rear lids are of double-panel construction and hinge assembled to body. Separate frame and bolt-on front end sheet metal, with protective inner plastic fender skirts. Side guard door beams. Air gap design windshield pillar molding. Contoured windshield header. Cargo guard luggage barrier. Double panel roof. Open channel rocker panels.

DOORS AND LOCKS

Door construction Double steel panels, hinged at front
 Door handles Lift bar with fork type door locks. Inside push-button locks and 2-position free-wheeling inside door handles on all 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.
 Hood Release Internal, to left of steering column under instrument panel.

VENTILATION

High level air intake for passenger compartment with double wall plenum chamber. Astro Ventilation with instrument panel outlets standard. To assure constant flow, heater blower circulates air thru lower vent when ignition is on.

SEAT CONSTRUCTION

Type
 All seat cushions and backrests . . . Formed polyfoam

WINDSHIELD WIPERS

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

HEADLIGHTS

Type Dual-rectangular "Power Beam" units

SPARE TIRE AND TOOLS

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

BODY GLASS VISIBILITY AREA

Windshield	1276.6
Front Door Window	1283.0
Rear Quarter Window	146.1
Rear Window	902.3
Total Area (Sq. In.)	3608.0

All window glass curved safety solid plate except curved laminated safety windshield.

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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. Rear axle pickup box welded construction.

Body Mountings 7 each side of frame - 12 double cushions and 2 single cushions.

FRONT SUSPENSION

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

Wheel travel (design)

Total 7.74

Jounce 3.54

Rebound 4.20

Wheel to spring, travel ratio 2.09:1

CONTROL ARMS

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

STEERING KNUCKLES

Description Nodular iron with integral steering 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 Teflon-cotton composite on phenolic

Lower Sintered iron

SHOCK ABSORBERS

Type Direct, double-acting, hydraulic

Piston diameter 1.00

STABILIZER BAR

Type Link

Material HR steel

Diameter 1.00

FRONT WHEEL ALIGNMENT (Curb)

Camber (degrees) . . . Left - P1 ± 0.8; Right-P1/2 ± 0.8

Caster (degrees) P5 ± 1/2

Toe (Total) 1/16 ± 1/8

Steering Axis Inclination 9.6° @ 1° camber

GENERAL SUSPENSION PROVISIONS

Car leveling Front stabilizer bar

Anti-dive control . . . Angle of front upper control arm

Anti-squat control Rear suspension geometry

FRAME AND FRONT SUSPENSION

FRONT SPRINGS

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

FRONT SPRING SPECIFICATIONS

Part Number	Assy. Code	Cut-Off Length	Wire Dia.	Total Coils	Deflection Rate (lbs./inch)	Heights	
						Free	Working (In. @ Lbs.)
462524	AWH	106.33	.680	7.00	500	14.83	11.0 @ 1900
462525	AWJ	106.36	.680	7.00	500	15.03	11.0 @ 2000
462526	AWK	125.26	.721	8.20	500	15.23	11.0 @ 2100
462527	AWM	125.29	.721	8.20	500	15.43	11.0 @ 2200
462528	AWN	125.32	.721	8.20	500	15.63	11.0 @ 2300
462529	AWR	129.81	.730	8.49	500	15.83	11.0 @ 2400
462530	AWS	131.47	.733	8.59	500	16.03	11.0 @ 2500
6262426	DJ	126.26	.680	8.29	400	15.90	11.0 @ 1950
6262427	DK	129.40	.686	8.49	400	16.10	11.0 @ 2030
6262428	DL	130.99	.688	8.59	400	16.30	11.0 @ 2110
6262429	DM	132.58	.691	8.69	400	16.50	11.0 @ 2190
6262430	DN	135.73	.697	8.89	400	16.70	11.0 @ 2270
6272855	HE	137.32	.700	8.99	400	16.90	11.0 @ 2350

STEERING, DRIVELINE, WHEELS AND TIRES

STEERING

Wheel	
Type	Round with center shroud
Diameter	15.25
Optional	Tilt; universally jointed steering shaft at base of steering wheel.
Column	Energy absorbing - mast jacket, shift tube and steering shaft designed to collapse under various front impact conditions.
Gear - Power (standard)	
Type	Integral, recirculating ball nut with hydraulic pressure provided from a vane type pump.
Ratios	
Gear	15.0:1 on center to 13.0:1
Overall	16.5:1 on center to 14.3:1
Number of turns, lock to lock	3.07
Linkage	Parallelogram, front of wheels; hydraulic damper used on relay rod.
Turning Diameters (ft.)	
Outside front, wall to wall	42.81
Outside front, curb to curb	38.93
Inside rear, wall to wall	11.77
Inside rear, curb to curb	10.94
Outside wheel angle with inside wheel @ 20°	19.0

DRIVELINE

Type	Tubular, exposed
Number Used	One
Diameter (O.D.)	2.75
Length (C/L of U joints)	53.65
Wall Thickness	0.065
Universal Joints	
Type	Cross
Number used	Two
Bearings	Pre-pack, anti-friction

WHEELS, REGULAR PRODUCTION

Type	Short spoke spider
Size	15 x 7
Offset	0.30
Attachment to Hub	
Type	5 hex nuts
Thread size	7/16-20 UNF 2-B
Bolt circle diameter	4.75

TIRES, STANDARD EQUIPMENT

Construction	Radial steel belted
Size	GR70 x 15B
Static loaded radius	12.2
Loaded rev/mi @ 45 mph	763
Capacity @ 24 psi	1380

REAR AXLE AND SUSPENSION

REAR AXLE

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

Drive pinion vertical offset 1.50
Hypoid gear PD (See Power Train Section

Page 2 for application

2.56; 3.08 8.50

Pinion bearing adjustment Shim

Lubricant

Type Military Spec. MIL-L-2105-B

Viscosity SAE80-90

Capacity (pts) 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

2.56:1 ratio 41, 16

3.08:1 ratio 40, 13

POSITRACTION DIFFERENTIAL (See Power Trains)

Type Two pinion with multiple 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 8.67

Jounce 3.80

Rebound 4.87

Wheel to spring, travel ratio 0.98:1

SHOCK ABSORBERS

Type Direct, double-acting, hydraulic

Piston diameter 1.00

STABILIZER BAR

Type Link

Material HR steel

Diameter 1.00

REAR SPRINGS

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

REAR SPRING SPECIFICATIONS

Part Number	Assy. No.	Cut-Off Length	Wire Dia.	Total Coils	Deflection Rate (lbs./inch)	HEIGHTS	
						Free	Working (In. @ Lbs.)
482062	XG	123.4	.560	7.23	115	17.39	10.0 @ 850
485721	TF	110.8	.548	6.59	115	16.52	10.0 @ 750
485722	ZX	115.3	.555	6.82	115	16.96	10.0 @ 800
485736	TA	99.8	.558	6.01	140	15.00	10.0 @ 700
485737	ZZ	107.8	.572	6.41	140	15.36	10.0 @ 750
485738	WU	107.8	.572	6.41	140	15.71	10.0 @ 800
485739	WV	112.0	.579	6.62	140	16.07	10.0 @ 850

BRAKES

General	Type	Power assisted disc front and drum rear		
	System	Dual circuit hydraulic system with warning light and self adjusting features - metering and proportioning valves provide balance between front and rear brakes		
Front Brakes	Type	Disc - single piston floating caliper		
	Material	Cast iron - vented		
	Diameter and Width	11.0 x 1.03		
	Lining material	Compression molded asbestos composition		
	Method of attachment	Riveted		
	Lining size (length x width x thickness)	Inboard	5.40 x 1.92 x 0.465	
		Outboard	5.40 x 1.92 x 0.465	
	Lining area (sq. in.)	38.76		
	Effective area (sq. in.)	36.80		
	Swept area (sq. in.)	210.4		
Piston diameter	2.94			
Rear Brakes	Type -	Finned drum - composite, web cast into rim		
	Material	Web - HR steel; Rim - Cast alloy iron		
	Diameter and Width	11.0 x 2.0		
	Lining material	Molded asbestos composition		
	Method of attachment	Riveted		
	Lining size (length x width x thickness)	Primary	8.87 x 2.0 x 0.25	
		Secondary	11.12 x 2.0 x 0.30	
	Lining area (sq. in.)	67.04		
	Effective area (sq. in.)	63.72		
	Swept area (sq. in.)	138.2		
Piston diameter	0.9375			
Apply System	Master cylinder diameter	1.125		
	Piston travel	1.408		
	Pedal travel	5.40		
	Pedal ratio	3.50:1		
	Line pressure @ 100 lb. pedal load	700		
Parking Brake	Type	Mechanical - Pull rods and cables operate rear service brakes; parking brake 'ON' warning light provided.		
	Control	Pendulum foot pedal; released by "T" handle located on instrument panel left of steering wheel		
	Total effective area	63.7		

BULBS AND LAMPS

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Automatic transmission Quadrant	1-168	3
Back-up	2-1156	32
Brake warning - alarm	1-168	3
Courtesy - Instrument panel	2-631	6
Directional signal indicators	2-168	3
Dome	1-211-2	12
Generator indicator	1-168	3
Glove compartment	1-1891	2
Headlamp Lower	2-4651	High beam 50W
Headlamp Upper	2-4652	Low beam 60W High beam 40W
Headlamp hi-beam indicator	1-168	3
Heater controls	1-194	2
Instrument cluster	4-168	3
License plate, rear	2-168	3
Luggage compartment	1-1003	15
Map visor lamp	1-561	12
Oil pressure indicator	1-168	3
Parking		
Park		2.2
Turn	2-1157NA	24
Radio dial RPO U63 and/or U69	1-1893	2
Radio dial and indicator RPO U58	1-1816 (dial)	1-dial
	1-66 (indicator)	.1-indicator
Radio dial and indicator RPO UM1 and/or UM2	1-564 (dial)	2-dial
	1-66 (indicator)	.1-indicator
Seat belt warning	1-168	3
Side Marker - Front	2-194	2
Side marker - Rear	2-194	2
Tail		
Tail		3
Stop and turn	4-1157	32
Temperature indicator	1-168	3
Underhood	1-93	15
W/S washer and light	1-168	2

FUSES AND CIRCUIT BREAKERS

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT*
Air conditioning	30 amp fuse	In line
	25 amp fuse	Fuse panel (h)
Automatic transmission pattern lamp	4 amp fuse	Fuse panel (f)
Back-up lamps	20 amp fuse	Fuse panel (b)
Brake indicator lamp	10 amp fuse	Fuse panel (c)
Cigarette lighter	20 amp fuse	Fuse panel (e)
Clock	20 amp fuse	Fuse panel (e)
Courtesy lamps	20 amp fuse	Fuse panel (e)
Defogging unit	10 amp fuse	Fuse panel (c)
Direction signal indicator lamps (Frt. & Rear)	20 amp fuse	Fuse panel (b)
Dome lamp	20 amp fuse	Fuse panel (e)
Fuel gage	10 amp fuse	Fuse panel (c)
Generator indicator lamp	25 amp fuse	Fuse panel (h)
Glove compartment lamp	20 amp fuse	Fuse panel (e)
Headlamps	Circuit breaker	Light switch
Headlamps hi-beam indicator lamp	Circuit breaker	Light switch
Heater	25 amp fuse	Fuse panel (h)
Heater controls lamp	4 amp fuse	Fuse panel (f)
Idle stop solenoid	10 amp fuse	Fuse panel (g)
Instrument cluster lamps	4 amp fuse	Fuse panel (f)
Key Buzzer	20 amp fuse	Fuse panel (e)
License plate lamp, rear	20 amp fuse	Fuse panel (d)
Luggage compartment lamp	20 amp fuse	Fuse panel (e)
Map lamp	10 amp fuse	Fuse panel (c)
Oil pressure indicator lamp	10 amp fuse	Fuse panel (c)
Headlight buzzer	10 amp fuse	Fuse panel (c)
Parking lamps	20 amp fuse	Fuse panel (d)
Power seats	30 amp CB	Firewall
Power windows	30 amp CB	Firewall
Radio	10 amp fuse	Fuse panel (g)
Radio lamp	4 amp fuse	Fuse panel (f)
Seat belt warning buzzer	10 amp fuse	Fuse panel (c)
Side Marker lamp - Front	20 amp fuse	Fuse panel (d)
Side Marker lamp - Rear	20 amp fuse	Fuse panel (d)
Speed cruise control	10 amp fuse	Fuse panel (c)
Stop and turn lamps	20 amp fuse	Fuse panel (a)
Tail lamps	20 amp fuse	Fuse panel (d)
Temperature indicator lamp	10 amp fuse	Fuse panel (c)
Traffic hazard indicator	20 amp fuse	Fuse panel (a)
Underhood lamp	15 amp fuse	In line
Windshield washer light switch	4 amp fuse	Fuse panel (f)
Windshield wiper, two-speed	25 amp fuse	Fuse panel
Wiper system - pulse	10 amp fuse	Fuse panel (g)

* Letter suffix indicates same circuit

POWER TRAINS

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POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	MODEL APPLICATION	AXLE RATIOS			RING GEAR
			BASE	HIGHWAY	HIGH ALTITUDE	
305 Cubic Inch V-8 (5.0 Litres) - (LG3) Base - all states except California	Turbo Hydra-matic	Sport Coupe	2.56:1	-	-	8.50
350 Cubic Inch V-8 (5.7 Litres) - (LM1) Optional - All States	Turbo Hydra-matic	Sport Coupe	2.56:1	3.08:1	3.08:1	8.50

MULTIPLICATION FACTORS

WITH AUTOMATIC TRANSMISSION

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
305 Cu. In. V-8 Standard (LG3)	Turbo Hydra-matic	Drive	12.90:1 - 2.56:1	2.56:1
		Low	12.90:1 - 6.45:1	
		Second	12.90:1 - 3.89:1	
		Reverse	9.93:1 - 4.97:1	
350 Cu. In. V-8 RPO LM1	Turbo Hydra-matic	Drive	12.90:1 - 2.56:1	2.56:1
		Low	12.90:1 - 6.45:1	
		Second	12.90:1 - 3.89:1	
		Reverse	9.93:1 - 4.97:1	

* Axle ratio x transmission ratio.

ENGINE DATA AND RATINGS

GENERAL DATA

Engine Type		V-8 OHV	
Piston Displacement (Cu.In.)		305	350
Availability		LG3 (Std.)	LM1
Number of Cylinders		Eight	
Bore (nominal)		3.736	4.00
Stroke (nominal)		3.48	3.48
Compression Ratio		8.5:1	
Taxable (SAE) Horsepower		44.7	51.2
Firing Order		1-8-4-3-6-5-7-2	
Idling Speed - Turbo Hydra-matic (in drive)		600	
Comp. Press. (PSI) @ Cranking Speed, Engine Hot		160	
Power Plant Mountings	Front	Two, preloaded captive cushion type	
	Rear	One, full shear type	
Measurements	Fan to rear of engine block	31.55	
	Top of air cleaner to bottom of oil pan	28.52	29.60
	Width - including air cleaner	28.53	

ADVERTISED ENGINE RATIO

Engine Designation		V8-305 Cu.In.	V8-350 Cu.In.
Availability		Std. (RPO LG3)	RPO LM1
Carburetor		Two Barrel	Four Barrel
Net Brake H.P. @ RPM	Federal	145 @ 3800	170 @ 3800
	California	-	160 @ 3800 (a)
Net Torque @ RPM (lb. ft.)	Federal	245 @ 2400	270 @ 2400
	California	-	260 @ 2400 (a)

(a) Also above 4000 feet in 49 other states.

ENGINE SPEED AND PISTON TRAVEL

V-8 305 CU. IN. ENGINE (BASE LG3)

Transmission	Turbo Hydra-matic	
Rear Axle Ratio	2.56:1	
Tire Size	GR70 x 15B	
Crankshaft Revolutions per Mile	1953.3	
Crankshaft RPM @ 1 MPH	Low	82.0
	Second	49.5
	Third	32.6
	Reverse	63.2
Piston Travel (ft/mile)	1132.9	

V-8 350 CU. IN. ENGINE (RPO LM1)

Transmission	Turbo Hydra-matic	
Rear Axle Ratio	2.56:1	
Tire Size	GR70 x 15B	
Crankshaft Revolutions per Mile	1953.3	
Crankshaft RPM @ 1 MPH	Low	82.0
	Second	49.5
	Third	32.6
	Reverse	63.2
Piston Travel (ft/mile)	1132.9	

VEHICLE PERFORMANCE FACTORS

ENGINE	305 Cu.In. V8	350 Cu.In. V8
MODEL	1AH57	1AH57

TURBO HYDRA-MATIC

Performance Weight (pounds)		4568	4590
Pounds per Net Horsepower	Federal	31.50	27.00
	California	-	28.69
Pounds/Cu. In. Displacement		14.98	13.11
Net H.P./Cu. In. Displacement	Federal	.475	.486
	California	-	.457
Power Displacement (cu.ft./mile)		172.40	197.82
Displacement Factor (cu.ft./ton mile)		75.50	86.20

GLOSSARY

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

PRINCIPAL COMPONENTS

CYLINDER BLOCK

Material Cast alloy iron
 Bore diameter
 V8-305 3.7355-3.7385
 V8-350 Cu.In. 3.9995-4.0025
 No. of Bulkheads 5
 Water Jacket Full length around each cyl.
 Bearing Caps (Number, material and attachment)
 V8-305 & 350 Cu.In. 5, cast iron; 2-bolt
 Bore Spacing (Centerline to Centerline)
 V8-305 & 350 Cu.In. 4.4

CYLINDER HEAD

Material High chrome cast alloy iron
 Bolt No. & Size
 V8-305 & 350 Cu.In. . . 34; .4375 dia. 14 threads/in.

COMBUSTION CHAMBER VOLUME

(Total chamber volume of assembled engine with piston
 at top center)
 V8-305 Cu.In. 5.13 Cu.In.
 V8-350 Cu.In. 6.27 Cu.In.

INLET MANIFOLD

Material Cast alloy iron
 Type 8 port, double deck

EXHAUST MANIFOLD

Material Cast alloy iron
 Type
 V8-305 & 350 Cu.In. Dual, 4 port,
 rear takedown
 Outlet Diameter (Nominal)
 V8-305 & 350 Cu.In. 2.0

CRANKSHAFT

Material Cast nodular iron
 End Play
 V8-305 & 350 Cu.In.002-.007
 Counter Weights 6
 Crank Arm Length
 V8-305 & 350 Cu.In. 1.74
 Torsional Damper Rubber mounted inertia
 Timing Gear Steel; sprocket & chain
 Pulley Pitch Diameter 6.64

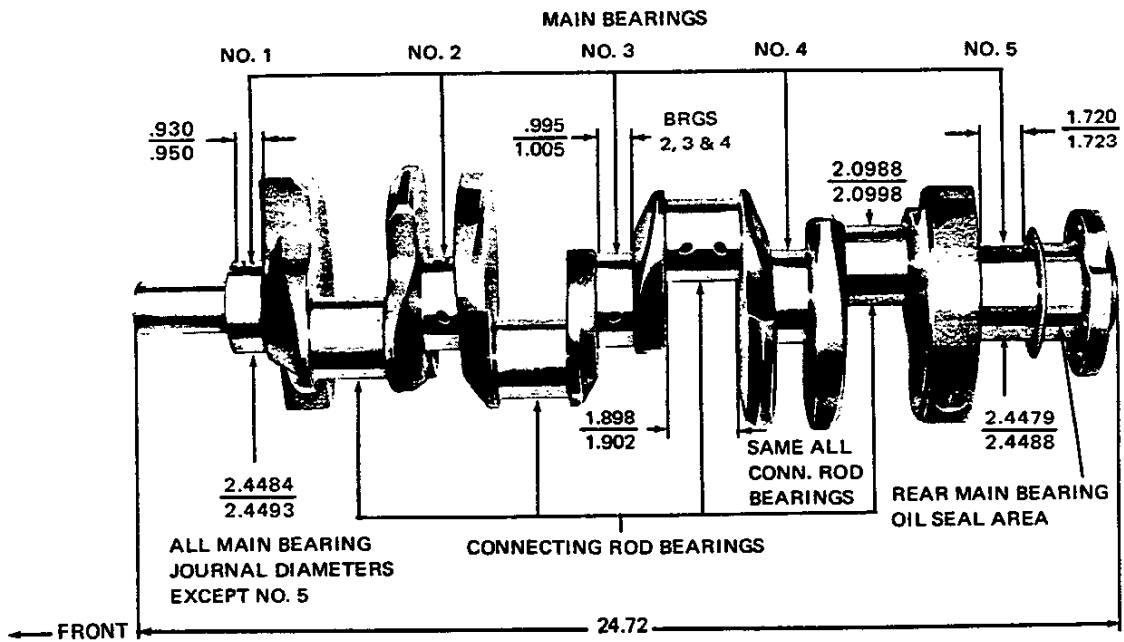
MAIN BEARINGS

Material No. 1 - 4 & No. 5
 lower - premium aluminum;
 No. 5 upper - copper lead alloy
 Type Precision removable
 Thrust Against Bearing No. 5
 Clearance
 V8-305 & 350 Cu.In.
 No. 10008-.0020
 No. 2, 3 & 40011-.0023
 No. 50017-.0033

Dimensions	Theoretical	Effective	Projected
	Inner Dia.	Length	Area
V8-305 & 350 Cu.In.			
Bearing No. 1-4	2.4502	.752	1.8425
Bearing No. 5	2.4508	1.180	2.8919

305 & 350 CUBIC INCH V-8 ENGINES

CRANKSHAFTS AND BEARINGS



PRINCIPAL COMPONENTS

CAMSHAFT

Material Cast alloy iron
 Drive Sprocket & chain; steel
 Lobe Lift
 V8-305 Cu.In.2484 Inlet; .2733 Exhaust
 V8-3502600 Inlet; .2733 Exhaust
 Bearings Steel backed babbit

VALVE TRAIN

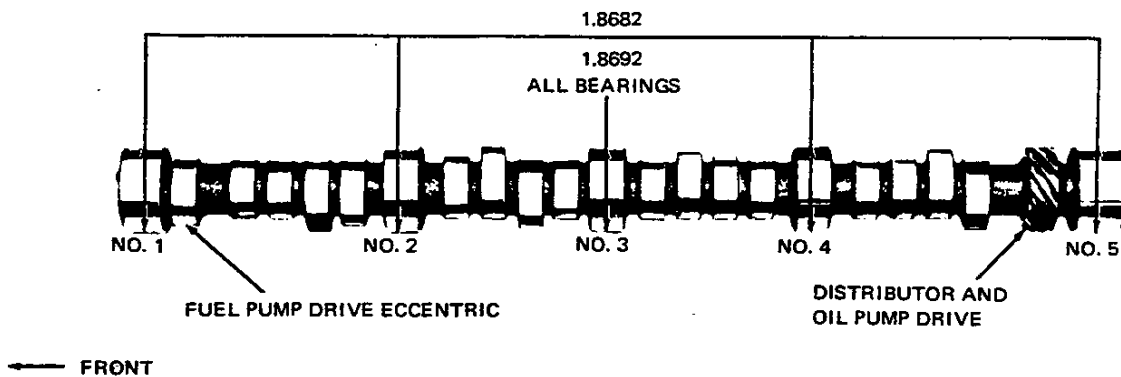
Type Individually mounted, overhead
 rocker arms, push rod actuated
 Lifters Hydraulic
 Push Rods
 Type Hollow steel
 Ends Hardened
 Rocker Arms
 Material Stamped steel
 Ratio 1.50:1
 Rotators Exhaust

VALVE SPRINGS

Diameter (I.D.)
 V8-305 & 350 Cu.In.868-.884
 Installed Length (lb. @ In.)
 Valves Closed
 V8-305 & 350 Cu.In.
 Inlet 76-84 @ 1.70
 Exhaust 76-84 @ 1.61
 Valves Opened
 V8-305 & 350 Cu.In.
 Inlet 194-206 @ 1.25
 Exhaust 194-206 @ 1.16
 Free Length
 V8-305 & 350 Cu.In. 2.03
 Valve Spring Damper
 V8-305 & 350 Cu.In. Flat steel, 4 coils

V8-305 & 350 ENGINES

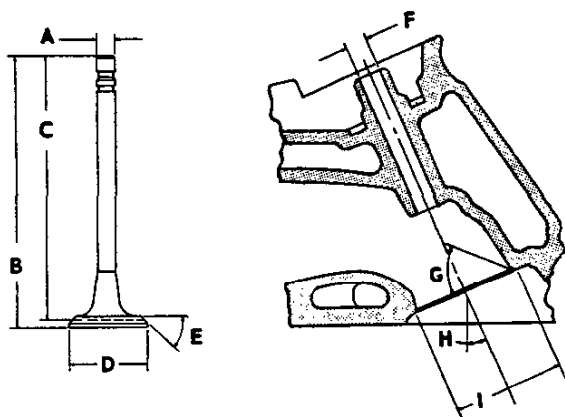
CAMSHAFT AND BEARINGS



PRINCIPAL COMPONENTS

VALVES – INLET

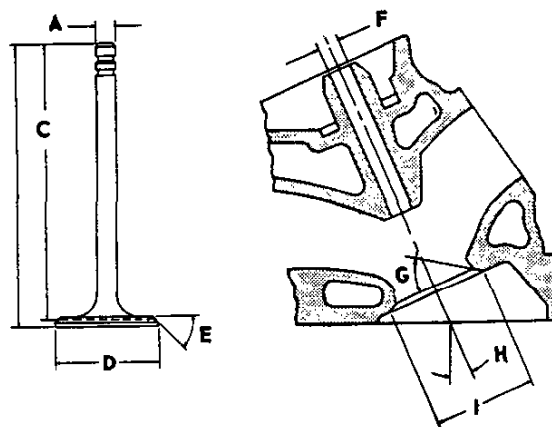
Material	Alloy steel
Coating	
V8-305 Cu.In.	Aluminized face
V8-350 Cu.In.	None
All Stems	Chrome flash



A – Stem Diameter	
V8-305, 350 Cu.In.	.3410-.3417
B – Overall Length	
V8-305 Cu.In.	4.902-4.922
V8-350 Cu.In.	4.870-4.889
C – Gage Length	
V8-305, 350 Cu.In.	4.785-4.795
D – Overall Head Diameter	
V8-305 Cu.In.	1.715-1.725
V8-350 Cu.In.	1.935-1.945
E – Angle of Face	45°
F – Guide Diameter	
V8-305, 350 Cu.In.	.3427-.3437
G – Angle of Seat	46°
H – Valve Angle	23°
I – Valve Seat Diameter	
V8-305, 350 Cu.In.	1.823-1.829

VALVES – EXHAUST

Material	High alloy steel
Coating	
V8-305 Cu.In.	Aluminized face
V8-350 Cu.In.	Aluminized face
All Stems	Chrome flash



A – Stem Diameter	
V8-305, 350 Cu.In.	.3410-.3417
B – Overall Length	
V8-305 Cu.In.	4.910-4.930
V8-350 Cu.In.	4.910-4.930
C – Gage Length	
V8-305, 350 Cu.In.	4.781-4.791
D – Overall Head Diameter	
V8-305, 350 Cu.In.	1.495-1.505
E – Angle of Face	45°
F – Guide Diameter	
V8-305, 350 Cu.In.	.3427-.3437
G – Angle of seat	46°
H – Valve Angle	23°
I – Valve Seat Diameter	
V8-305, 350 Cu.In.	1.321-1.327

PRINCIPAL COMPONENTS

VALVE LIFT

V8-305 Cu.In.3727 Inlet; .4100 Exhaust
 V8-350 Cu.In.3900 Inlet; .4100 Exhaust

VALVE TIMING (Crankshaft degrees - Excluding Ramps)

V8-305 Cu.In.
 Inlet Valve (Zero lash)
 Opens - BTC 28°
 Closes - ABC 64°
 Duration 272°
 Exhaust Valve (Zero lash)
 Opens - BBC 78°
 Closes - ATC 30°
 Duration 288°

V8-350 Cu.In.
 Inlet Valve (Zero lash)
 Opens - BTC 28°
 Closes - ABC 72°
 Duration 280°
 Exhaust Valve (Zero lash)
 Opens - BBC 78°
 Closes - ATC 30°
 Duration 288°

PISTONS

Material Cast aluminum alloy
 Head Type Sump head
 Skirt Type Slipper
 Top Land Clearance
 V8-305 Cu.In.0245-.0335
 V8-350 Cu.In.0235-.0325
 Skirt Clearance
 V8-305 Cu.In.0017-.0042
 V8-350 Cu.In.0007-.0017
 Compression Ring Groove Depth
 V8-305 Cu.In.2003-.2073
 V8-350 Cu.In.2218-.2308
 Oil Ring Groove Depth
 V8-305 Cu.In.2103-.2193
 V8-350 Cu.In.2038-.2128
 Pin Bore Offset055-.065
 Compression Height
 V8-305 Cu.In.1.538-1.562
 V8-350 Cu.In.1.558-1.562

PISTON PINS

Material Chromium steel
 Length 2.990-3.010
 Diameter9270-.9273
 Clearance in Piston00025-.00035
 Pin Mounting Locked in rod by shrink fit

PRINCIPAL COMPONENTS

COMPRESSION RINGS - UPPER

Material	Cast alloy iron
Type	Straight edge inside of ring
Face	Radius
Coating	
V8-305 & 350 Cu.In.	Chrome flash
Width	
V8-305 Cu.In.	.0770-.0780
V8-350 Cu.In.	.0775-.0780
Wall Thickness	
V8-305 Cu.In.	.167-.177
V8-350 Cu.In.	.190-.200
Gap	.010-.020

COMPRESSION RINGS - LOWER

Material	Cast alloy iron
Type	Reverse twist (top of ring 30 degrees to piston vertical axis for V8-350)
Face	Tapered
Coating	Wear resistant
Width	
V8-305 & 350 Cu.In.	.0770-.0775
Wall Thickness	
V8-305 Cu.In.	.167-.177
V8-350 Cu.In.	.190-.200
Gap	
V8-305 Cu.In.	.010-.025
V8-350 Cu.In.	.013-.025

OIL CONTROL RINGS

Type	Multi-piece (Two rails and one spacer)
Material	
Rails	Steel
Spacer	Alloy steel
Width (assembled)	
V8-305 Cu.In.	.1859-.1879
V8-350 Cu.In.	.1850-.1870
Wall Thickness	
V8-305 Cu.In.	.138-.143
V8-350 Cu.In.	.150-.156
Gap	
V8-305 Cu.In.	.010-.035
V8-350 Cu.In.	.015-.055
Rail Coatings	Chrome plated

CONNECTING RODS

Material	Drop forged steel
Length (center to center)	
V8-305 & 350 Cu.In.	5.695-5.705

CONNECTING ROD BEARINGS

Material	Premium aluminum
Type	Precision removable
Clearance	.0013-.0035
Theoretical L.D.	2.1012
Effective Length	.797
End Play	
V8-305 & 350 Cu.In.	.006-.016

FUEL SYSTEM

FUEL TANK

Capacity	22 (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)	
V8-305 & 350 Cu.In.	7.50-9.00 PSI at pump outlet

AIR CLEANER

Type	Cylindrical with air horn attached to ducted air inlet
Diameter	15.48
Filter Element	Oil-wetted paper

CARBURETORS

Make and Type	
V8-305 Cu.In.	2-barrel
V8-350 Cu.In.	4-barrel
SAE Flange Size	1.50
Throttle Bore	
V8-305 Cu.In.	1.69
V8-350 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	
V8-305 Cu.In.	1.19
V8-350 Cu.In.	
Primary	1.218
Secondary	Air valve

CHOKE

Type	Automatic
------	-----------

TYPE

V8-305 & 350 Cu.In. Single exhaust and
converter with crossover pipes

EXHAUST CROSSOVER PIPE TO CONVERTER

Dimensions (O.D.) & Wall Thickness

Crossover pipe 2.00 x .040 laminated
Pipe to converter. 2.50 x .079 laminated

MUFFLERS

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

Head

V8-305 & 350 Cu.In.054 sheet steel, aluminized
Shell054 sheet steel aluminized
Cover015 sheet steel, aluminized
Length, Body 21.25

Width

V8-305 Cu.In. 11.00
V8-350 Cu.In. 11.00

Height

V8-305 Cu.In. 4.50
V8-350 Cu.In. 4.50

EXHAUST PIPE - CONVERTER TO MUFFLER

Dimensions (O.D. & Wall Thickness)

V8-305 2.50 x .071
V8-350 1.75 x .071

TAIL PIPES

Dimensions (O.D. & Wall Thickness)

V8-305 Cu.In. 2.00 x .071
V8-350 Cu.In. 2.25 x .071

EMISSION CONTROL EQUIPMENT

SYSTEM APPLICATION

System Type	Engine Adaptation	
	V8-305 LG3	V8-350 LM1
PCV - Positive Crankcase Ventilation	*	***
EGR - Exhaust Gas Recirculation	*	***
CHA - Carburetor Hot Air	*	***
MAI - Manifold Air Injection	-	** (a)
FEC - Fuel Evaporation Control System	*	***
CCS - Controlled Combustion System	*	* (b)
UFC - Underfloor Converter	*	***
EFE - Early Fuel Evaporation	*	***

- *-Not available in California
- ** -California only.
- *** -Available - all states.
- (a) Also 49 states above 4000 feet.
- (b) 49 states below 4000 feet only.

BASIC FUNCTION OF SYSTEMS

POSITIVE CRANKCASE VENTILATION

Withdraws oil and gas vapors from the various cavities throughout the engine for burning in the combustion cycle.

MANIFOLD AIR INJECTION

Compresses, regulates and distributes quantities of air to the manifold to more completely burn carbon monoxide and hydrocarbon emissions.

EXHAUST GAS RECIRCULATION SYSTEM

Meters exhaust gas into induction system for recirculation through the combustion cycle to reduce oxides of nitrogen emissions.

FUEL EVAPORATION CONTROL SYSTEM

Controls emission of gasoline vapor to the atmosphere by means of an integral separator with the fuel tank that separates vapor from liquid fuel - a filler cap that doesn't permit venting into the atmosphere - a canister for storage of vapors - lines, hoses and valves to control and transport vapors from fuel tank to storage, and finally, to the carburetor for utilization in running the engine.

CARBURETOR HOT AIR

Meters and mixes heated air with incoming cold air to optimize fuel vaporization.

UNDERFLOOR CONVERTER

The flow of exhaust gases down through the catalyst within the converter, effectively controls the hydrocarbon and carbon monoxide to a more desirable emission.

CONTROLLED COMBUSTION SYSTEM

Increased combustion efficiency through leaner carburetor mixtures and revised calibration. Special thermostatically controlled damper, in the air cleaner snorkel maintains warm air intake to the carburetor.

EARLY FUEL EVAPORATION

System is designed to produce a very short engine warm-up cycle to improve vehicle durability and reduce exhaust emission.

GENERAL

Type	Controlled full pressure
Main Bearings	Pressure
Piston Pins	Splash
Cylinder Walls	Pressure, jet cross sprayed
Camshaft Bearings	Pressure
Valve Lifters	Pressure
Rocker Arms	Pressure
Timing Gears	Centrifugally oiled from front camshaft bearing

Oil Pressure Sending Unit

Type	Electric
Actuation	Opens or closes circuit @ 2 to 6 PSI
Oil Filler	
Cap	Positive seal
Location	Rearward on left rocker cover

OIL PAN CAPACITIES (Quarts)

Refill	4
Refill with Filter Change	4.5

LUBRICANT GRADES AND TEMPERATURES

20° F and Above	10W-30, 10W-40, 20W-20, 20W-40, 20W-50
0° F to 60° F	10W, 5W-30, 10W-30, 10W-40
Below 20° F	5W-20, 5W-30

OIL PUMP

Type	Gear
Regulator Valve	Opens between 40-45 lbs
Oil Pressure	32-40 PSI @ 2000 RPM
Intake Type	Fixed pickup with screen
Capacity (GPM @ Engine RPM) (Theoretical)	
V8-305 & 350 Cu.In.	4.3 @ 2000

OIL FILTER

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

OIL PAN DRAIN PLUG

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

OIL DIP STICK - LOCATION

V8-305 & 350 Cu.In.	Left side, rear of engine block
---------------------	---------------------------------

COOLING SYSTEM

GENERAL

Type Pressure vented thru
coolant recovery system
Capacity with Heater 16.6 Qts.

RADIATOR

Make and Type Harrison, tube and center
Core Constant
Distance between Fins
V8-305 Cu.In.22
V8-350 Cu.In.18
Distance between Tubes55
Thickness of core
V8-305 & 350 Cu.In.1.24
Frontal Area (Sq.In.)480
Overflow Separate coolant bottle

RADIATOR, HEAVY DUTY (RPO V01)

Core Constant
Distance between Fins16
Distance between Tubes55
Thickness of core1.96
Frontal Area (Sq.In.)480
Overflow Separate coolant bottle

RADIATOR CAP RELIEF VALVE

Opens at Approximately 15 PSI

THERMOSTAT

Type Pellet
Begins to Open at 192°-198°
Fully Opened at 227°

RADIATOR HOSE

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

FAN

Number of Blades 4, staggered
Diameter 19.00

BELTS, CRANKSHAFT, FAN AND GENERATOR

Number Used One
Angle of "V" 34°-38°
Pitch Line
V8-305 & 350 Cu.In. used in all
states except California 44.50
V8-350 Cu.In.
(used in California) 47.00
Width380

WATER PUMP

Type Centrifugal
Capacity
V8-305 & 350 Cu.In. 21.6 GPM @ 2000 Engine RPM
Bearing Permanently lubricated double row ball
Drive Fan belt
Ratio (Pump to Engine RPM)949:1

DRAIN LOCATIONS AND TYPE

Engine Block-Plug Right and left center
Radiator - Petcock
All radiators Lower left rear face

ELECTRICAL SYSTEM

SUPPLY SYSTEM

BATTERY

Voltage Rating and Watts
 V8-305 & 350 Cu.In. 12-3200
 Number of Cells and Plates
 V8-305 & 350 Cu.In. 6-66
 Cold Cranking Rating
 V8-305 & 350 Cu.In. 0° @ 350 amps.
 -20° @ 270 amps @ 80 minutes reserve capacity
 Terminal Grounded Negative
 Location Right side front of
 engine compartment

GENERATOR

Type Diode rectified
 Rating
 Amps 37
 Volts 12
 Drive By fan belt
 Pulley Pitch Diameter 2.43
 Ratio (Gen. to Engine Speed) 2.73:1

REGULATOR

Type Micro circuit unit; integral with alternator
 Voltage 13.8-14.8 @ 85 degrees F

IGNITION SYSTEM

TYPE High Energy Ignition (H.E.I.)
 DISTRIBUTORS Refer to chart below

COIL

Type Integral with distributor

SPARK PLUGS

Type R45TS
 Thread Size (mm) 14
 Gap045
 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 70-99
 Volts 10.6
 RPM 7800-12000
 Motor Drive
 Engagement Solenoid
 Pinion Tooth No. 9
 Flywheel Tooth No. 168

DISTRIBUTORS	V8-305 Cu.In.	V8-350 Cu.In.	
	LG3	LM1	LM1
Model	1103239	1103246	1103248*
Type	High Energy Ignition		
Centrifugal advance Begins @ RPM	0° @ 1200	0° @ 1200	0° @ 1200
Maximum degrees @ RPM	20° @ 4200	22° @ 4200	22° @ 4200
Vacuum advance begins @ In. Hg.	0° @ 4	0° @ 4	0° @ 4
Maximum degrees @ In. Hg.	15° @ 10	18° @ 12	10° @ 8
Timing (initial design setting) Crankshaft degrees @ RPM with vacuum line disconnected	8° BTC @ 500	8° BTC @ 500	8° BTC @ 500
Timing mark location	Torsional damper		

* Specific to engine used in California.

TURBO HYDRA-MATIC TRANSMISSIONS

Engine	Displacement	V8-305 & 350		
General	Type	Automatic Hydraulic torque converter with compound planetary gear system - three forward speeds and reverse.		
	Selector lever	Location (a)	Steering column	
		Operation	Actuates controls by a hydraulic system from pressurized gear type pump	
	Parking Lock	Quadrant pattern	P-R-N-D-L2-L1	
		Type	Locking pawl	
	Operation	Applied by selector lever through manual linkage		
	Method of cooling	Water		
	Flywheel assembly	Steel stamping with welded on ring gear		
Hydraulic System	Oil pressure pump	Supplies hydraulic pressure from an engine driven gear type pump		
	Type	Steel spool valve		
	Valves	Manual	Establishes range of transmission operation	
		Pressure regulator	Provides 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 which varies with torque to transmission		
	Accumulator	Provides greater flexibility in attaining desired shift quality for various engine requirements		
	Pressure @ Idle (b)	Drive	60	
		L2	87	
L1		87		
Reverse		91		
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	2.00		
	Stall speed (RPM)	2110		
	Diameter (nominal)	11.75		
Planetary Gear Set	Reaction carrier assembly	4 steel pinion gears		
	Output carrier assembly	4 steel pinion gears		
	Intermediate band	Circular steel with organic lining		
	Range	D (Drive)	2.52:1 - 1.52:1 - 1.00:1	
		L2 (Low two)	2.52:1 - 1.52:1	
		L1 (Low one)	2.52:1	
		R (Reverse)	1.94:1	
Servo Unit	Piston with release spring and inner cushion spring			
Case	Material	Aluminum		
	Type	Four, multiple disk		
Clutches	Material	Drive plates	Steel with bonded organic facings	
		Driven plates	Flat steel	
	Forward Clutch	5 each drive & driven plates		
	Direct clutch	4 each drive & driven plates		
	Intermediate clutch	3 each drive & driven plates		
	Low & Reverse clutch	5 each drive & driven plates		
Release spring	Radial row steel coil			
Torque Multiplication	Drive (maximum)	5.04:1 to 1.00		
	Low 2	5.04:1 to 1.52		
	Low 1	5.04:1 to 2.52		
	Reverse	3.88:1 to 1.94		
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	Dexron		
	Capacity (pints)	Dry	20	
		Refill	8	

- (a) Floor mounted when console is used quadrant changes to P-R-N-3-2-1.
 (b) 600 RPM input

ORIGINAL COPY

1977 MVMA Specifications Form Passenger Car

Manufacturer CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	Car Line MONTE CARLO "S"	
Mailing Address Chevrolet Engineering Center 30003 Van Dyke Warren, Michigan 48090	Model Year 1977	Issued: July, 1976
		Revised (e) Feb. 1977

*Sheets revised - 11,21

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 above. This specification form was developed by automobile manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association.

MVMA Specifications Form

Passenger Car

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NOTES.

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

MVMA Specifications Form

Passenger Car

Car Line MONTE CARLO "S"
 Model Year 1977 Issued 976 Revised (●)

Car and Body Dimensions See Key Sheets, Pgs. 30-33

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.

Body Type	
SAE Ref. No.	Sport Coupe

Width

Tread - Front	W101	61.9
Tread - Rear	W102	60.7
Maximum overall car width	W103	77.6
Body width at No. 2 pillar	W117	--
Max. front doors open	W120	171.3
Max. rear doors open	W121	--

Length

Body "O" to front of dash	L 30	-0.5
Wheelbase	L101	116.0
Overall car length	L103	213.3 (a)
Overhang - front	L104	43.8 (a)
Overhang - rear	L105	53.5 (a)
Body upper structure length	L123	94.6
Body "O" line to C/L of rear wheel	L127	93.5
Body "O" line to w/s cowl point	L125	10.5

Height

Passenger Distribution (front & rear)	-	2-3
Trunk/Cargo load (lbs.)	*	0
Overall height	H101	52.8
Cowl height	H114	38.6
Deck height	H138	36.8
Rocker panel - front	To ground	8.6
	From front wheel C/L	--
Bottom of front door to ground	H133	9.1
Rocker panel - rear	To ground	8.1
	From rear wheel C/L	--
Bottom of rear door to ground	H135	--
Windshield slope angle	H122	56.5°

Ground Clearance

Bumper to ground - front	H102	12.3
Bumper to ground - rear	H104	12.1
Angle of approach	H106	16.20
Angle of departure	H107	17.22
Ramp breakover angle	H147	13.14
Rear axle differential to ground	H153	6.8
Min. running clearance (Specify)	H156	5.0 (b)

(b) Catalytic converter

*All measurements are made at the stated passenger and trunk/cargo loadings

(a) With Impact Strips L103-213.8
 L104- 44.2
 L105- 53.6

**MVMA Specifications Form
Passenger Car**

Car Line MONTE CARLO
 Model Year 1977 Issued 976 Revised (●) _____

Car Models

Model Description	Make, Car line, Series, Body Type (Mfr's Model Code)	Max. Number of Passengers (Front/Rear)	
<u>MONTE CARLO "S"</u>	<u>Model</u>	<u>Front</u>	<u>Rear</u>
2-Door Sport Coupe	1AH57	3	3

NOTE: Any specifications on the following pages that are specific to California requirements, are indicated accordingly.

MVMA Specifications Form Passenger Car

Car Line MONTE CARLO "S"
 Model Year 1977 Issued 9/76 Revised (●) _____

Car And Body Dimensions See Key Sheets, Pgs. 30-33

Body Type

SAE Ref. No.	Sport Coupe
---------------------	-------------

Station Wagon — Third Seat

Shoulder Room	W85	
Hip room	W86	
Effective leg room	L86	NOT
Effective head room	H86	
Effective T Point head room	H89	APPLICABLE
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	NOT
Opening width at belt	W204	
Maximum cargo height	H201	APPLICABLE
Rear opening height	H202	
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	

Hatchback — Cargo Space

Front Seat Back to Load Floor Height	H197	
Cargo Length at Front Seat Back Height	L208	NOT
Cargo Length at Floor - Front Seat	L209	
Cargo volume index (cu. ft.) $\frac{L208 + L209}{2} \times W4 \times H197$ 1728	V3	APPLICABLE

MVMA Specifications Form Passenger Car

Car Line MONTE CARLO "S"
 Model Year 1977 Issued 9/76 Revised (●) _____

Car And Body Dimensions See Key Sheets, Pgs. 30-33

Body Type

SAE Ref. No.	Sport Coupe
---------------------	--------------------

Front Compartment

H Point to body "O" line	L31	42.3
Effective head room	H61	37.0
Effective T Point head room	H75	37.2
Max. eff. leg room - accelerator	L34	42.4
H Point to Heel point	H30	8.4
H Point travel	L17	5.1
Shoulder room	W3	58.8
Hip room	W5	54.8
Upper body opening to ground	H50	49.2
Steering Wheel Angle Vertical	H-18	17.9°
Back Angle Front	L-40	26.5°

Rear Compartment

H Point couple distance	L50	31.0
Effective head room	H63	37.1
Effective T Point head room	H76	36.9
Min. effective leg room	L51	32.9
H Point to Heel point	H31	10.1
Min. knee room	L48	1.3
Rear Compartment room	L3	24.2
Shoulder room	W4	58.1
Hip room	W6	52.7
Upper body opening to ground	H51	---

Luggage Compartment

Usable luggage capacity (cu. ft.)	V1	14.7 (a)
Liftover height	H195	26.0
Position of spare tire storage		Centered in Forward Trunk Area
Method of holding lid open		Boxed Hinges with Torsion Rod

- (a) Space saver tire 16.5 (cu.ft.)
 (*) Corporation "H" (shoe box) method of measurement is used.

MVMA Specifications Form

Passenger Car

Car Line MONTE CARLO
 Model Year 1977 Issued 9/76 Revised (●) _____

Power Teams (Indicate whether standard or optional)

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

SERIES AVAILABILITY #	ENGINE (1)					TRANSMISSION	AXLE RATIO * (Std. first) (Indicate A/C ratio) **								
	Displ. cu. in.	Carb.	Compr. Ratio	SAE Net @ RPM			Exhaust System*	A(std)	B(opt)	C(std)					
				BHP	Torque										
All Models Base - All States exc. California	305 V8 5.0 LG3	2-bbl	8.5:1	145 @ 3800	245 @ 2400	S	3 - Speed Automatic	2.56	-	-					
All Models Optional - All States	350 V8 5.7 LMI	4-bbl	8.5:1	170 @ 3800	270 @ 2400	S	3 - Speed Automatic	2.56	3.08	3.08					
<p># 'Base' and 'Optional' refer to engine availability. * Positraction available optionally for all ratios. ** Same ratios available with Air Conditioning</p> <p>'A' and 'B' - Below 4000 feet altitude in 49 states and all altitudes in California. 'C' - Above 4000 feet altitude in all states except California.</p> <p>(1) California only:</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>ENGINE</th> <th>BHP</th> <th>TORQUE</th> </tr> </thead> <tbody> <tr> <td>350 V8</td> <td>160 @ 3800</td> <td>260 @ 2400</td> </tr> </tbody> </table>										ENGINE	BHP	TORQUE	350 V8	160 @ 3800	260 @ 2400
ENGINE	BHP	TORQUE													
350 V8	160 @ 3800	260 @ 2400													

*S - Single D - Dual

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Car Line MONTE CARLO "S"
 Model Year 1977 Issued 9/76 Revised (●) _____

Engine Displacement	
V8-305 C.I. LG3	V8-350 C.I. LMI

Engine — General

Type, no. cycls., valve arr.		90° V8 OHV	
Bore and stroke (nominal)		3.736 x 3.48	4.00 x 3.48
Piston displacement, cu. in.		305	350
Bore spacing (C/L to C/L)		4.40	
No. system (front to rear)	L. Bank	1-3-5-7	
	R. Bank	2-4-6-8	
Firing Order		1-8-4-3-6-5-7-2	
Cylinder Head Material		Cast alloy iron	
Cylinder Block Material		Cast alloy iron	
Cyl. Sleeve-Wet, dry, none		None	
Number of mtg. points	Front	Two	
	Rear	One	
Engine installation angle		4° 46'	
Recommended fuel regular — premium		Unleaded	
Cylinder Head Volume (cc)		60.52	75.47
Head Gasket Thickness (Compressed)		.021	.021
Head Gasket Volume (cc)		3.98	4.58
Deck Clearance (minimum) (above or below block)		.025 below	.025 below
Minimum Combustion Chamber Volume (cc)		59.52	74.47

Engine — Pistons

Material		Cast aluminum alloy	
Description and finish		Sump head; closed, slipper skirt	
Weight (piston only) oz.		20.80	21.33
Clearance (limits)	Top land	.0245-.0335	.0235-.0325
	Skirt	Top	.0017-.0042 (a)
		Bottom	.0007-.0017 (a)
Ring groove diameter	No. 1 ring	3.320-3.335	3.541-3.556
	No. 2 ring	3.320-3.335	3.541-3.556
	No. 3 ring	3.300-3.315	3.577-3.592

(a) measured 1.56 from top of piston

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Engine Displacement

V8-305 C.I. LG3	V8-350 C.I. LM1
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Engine—Crankshaft

Material	Cast nodular iron		
Vibration damper type	Rubber mounted inertia		
End thrust taken by bearing (No.)	5		
Crankshaft end play	.002 - .007		
Main bearing	Material & type	#1, 2, 3, 4 - Premium Aluminum; #5 lower-Premium Aluminum - #5 upper-Copper lead alloy	
	Clearance	(a)	
	Journal dia. and bearing overall length	No. 1	2.4502 x .752
		No. 2	2.4502 x .752
		No. 3	2.4502 x .752
		No. 4	2.4502 x .752
		No. 5	2.4508 x 1.180
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset	10 bolts/5 caps	
No. bolts/main brg. cap	2.099/2.100		
Crankpin journal diameter			

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	Sintered iron	
	Camshaft gear or sprocket material	Nylon teeth with aluminum head	
	Timing chain	No. of links	46
		Width	.625
Pitch		.500	

- (a) No. 1 - .0008 - .0020
 No. 2, 3 & 4 - .0011 - .0023
 No. 5 - .0017 - .0032

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Engine Displacement

V8-305 C.I. LG3	V8-350 C.I. LMI
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Engine - Piston Rings

Function (top to bottom)	No. 1. oil or comp.	Compression
	No. 2. oil or comp.	Compression
	No. 3. oil or comp.	Oil
Compression	Description - material, coating.	Upper Cast alloy iron, barrel face, chrome flash
	etc. Lower	Cast alloy iron reverse twist, tapered face, wear resistant coating
	Width	Upper .0775-.0780; lower .0770-.0775
	Gap	Upper .010-.020; lower .013-.025
Oil	Description - material, coating.	Multi-piece (2 rails and 1 spacer expander) Rails-steel chrome plated O.D.; Expander-stainless steel
	etc.	
	Width	.1859-.1879 .1850-.1870
	Gap	.010-.035 .015-.055
Expanders		In oil ring assembly

Engine - Piston Pins

Material	Chromium steel		
Length	2.990 - 3.010		
Diameter	.9270 - .9273		
Type	Locked in rod, in piston, floating, etc.	Locked in rod	
	Bushing	In rod or piston	None
		Material	
Clearance	In piston	.00025 - .00035	
	In rod	--	
Direction & amount offset in piston	Major thrust side; 0.060		

Engine - Connecting Rods

Material	Drop forged steel	
Weight (oz.)	13.70	
Length (center to center)	5.695 - 5.705	
Bearing	Material & Type	Premium aluminum
	Overall length	.797
	Clearance (limits)	.0013 - .0035
	End Play	.006 - .016

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Car Line MONTE CARLO
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Engine Displacement

V8 - 305 C.I. LG3	V8 - 350 C.I. LMI
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Engine — Lubrication System

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from camshaft bearing
	Cylinder walls	Pressure jet cross sprayed
Oil pump type	Gear	
Normal oil pressure (lb. @ engine rpm)	32 - 40 @ 2000	
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°F and above - 20W-20, 10W-40, 20W-40, 20W-50 0° to 60°F - 10W, 5W-30, 10W-40, 10W-30 Below 20°F - 5W-20, 5W-30	
Engine service reqmt. (SD, SE, etc.)	SE	

Engine — Exhaust system

Type (single, single with cross-over, dual, other)	Single with crossover and single converter	
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, reverse flow	
Resonator No. & type	None	
Exhaust Pipe	(a) Branch O. D., wall thickness	2.00 x .040*
	(b) Main O. D., wall thickness	2.50 x .079 (c)
	Material	Stainless steel tubing
Tail Pipe	O. D. & wall thickness	2.00 x .071
	Material	Stainless steel tubing

- * - Laminated
- (a) - Crossover
- (b) - Exhaust pipe to converter
- (c) - Converter to muffler 2.50 x .071

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Passenger Car

Car Line MONTE CARLO "S"
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Engine Displacement

V8-305 C.I. LG3	V8-350 C.I. LM1
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Engine—Valve System

Hydraulic lifters (Std., opt., NA)		Standard		
Valve rotator, type (intake, exhaust)		Exhaust		
Push rods (dia., length, material)		.3125 x 7.724 welded steel tubing		
Rocker ratio		1.50:1		
Operating tappet clearance (indicate hot or cold)	Intake	Zero		
	Exhaust	Zero		
Timing (based on top of ramp points)	Intake	Opens (°BTC)	28°	28°
		Closes (°ABC)	64°	72°
		Duration (deg.)	272°	280°
	Exhaust	Opens (°BBC)	78°	78°
		Closes (°ATC)	30°	30°
		Duration (deg.)	288°	288°
	Valve open overlap (deg.)		58°	58°
Material		Alloy steel, aluminized face on V8-305		
Overall length		4.902-4.922	4.870-4.889	
Actual overall head dia.		1.715-1.725	1.935-1.945	
Angle of seat & face (deg.)		46° seat; 45° face		
Seat insert material		None		
Stem diameter		.3410 - .3417		
Stem to guide clearance		.0010 - .0027		
Intake	Lift (@ zero lash)		.3727	.3900
	Outer spring press. & length	Valve closed (lb. @ in.)	76 - 84 @ 1.70	
		Valve open (lb. @ in.)	194 - 206 @ 1.25	
	Inner spring press. & length	Valve closed (lb. @ in.)	Spring Damper	
		Valve open (lb. @ in.)	Spring Damper	
	Material		High Alloy Steel, aluminized face	
	Overall length		4.910-4.930	
Actual overall head dia.		1.495 - 1.505		
Angle of seat & face (deg.)		46° seat; 45° face		
Seat insert material		None		
Stem diameter		.3410 - .3417		
Stem to guide clearance		.0010 - .0027		
Exhaust	Lift (@ zero lash)		.4100	
	Outer spring press. & length	Valve closed (lb. @ in.)	76 - 84 @ 1.61	
		Valve open (lb. @ in.)	194 - 206 @ 1.16	
	Inner spring press. & length	Valve closed (lb. @ in.)	Spring Damper	
		Valve open (lb. @ in.)	Spring Damper	

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Car Line MONTE CARLO "S"
 Model Year 1977 Issued 9/76 Revised (e) _____

Engine Displacement

V8 - 305 C. I. LG3	V8 - 350 C.I. LM1
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Engine — Cooling System

Type system (pressure, pressure vented, atmospheric, other)	Pressure-vented thru coolant recovery system			
Radiator cap relief valve pressure	15 PSI			
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at (°F)	192° - 198°		
Water pump	Type (centrifugal, other)	Centrifugal		
	GPM 1000 pump rpm	22.7		
	Number of pumps	One		
	Drive (V-belt, other)	V-belt		
	Bearing type	Permanently lubricated double row ball		
By-pass recirculation type (inter., ext.)	Internal			
Radiator core type (cross-flow, vertical, cellular, tube and fin, other)	Cross flow, tube and center			
Cooling system capacity	With heater (qt.)	16.6		
	Without heater (qt.)			
	Opt. equipment-specify (qt.)	18.0		
Water jackets full length of cyl. (yes, no)	Yes			
Water all around cylinder (yes, no)	Yes			
Radiator hose	Lower	Number and type (molded, straight)	One, molded	
		Inside diameter	1.75	
	Upper	Number and type (molded, straight)	One, molded	
		Inside diameter	1.50	
	By-pass	Number and type (molded, straight)	None	
		Inside diameter	None	
	Fan	Number of blades & spacing	4-blade, staggered	
		Diameter	19.00	
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	A (B)	
	Generator or alternator	A	A (B)	
	Water Pump	A	A (B)	
	Power Steering	C	C	
	Air Conditioning	D	D	
	Air Injection		(B)	

Note: Items bracketed () are specific to California engines

*Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	← 34°		-38° →								
Nominal length (SAE)	44.50	47.00	36.00	34.50							
Width	.380	.380	.380	.380							

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Car Line MONTE CARLO "S"
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Engine Displacement

V8 - 305 C.I. LG 3	V8-350 C.I. LM 1
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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.)	Approximately 22
	Filter location	Behind hinged rear license plate
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Lower right front of engine
	Pressure range	7.50 - 9.00
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Fine mesh plastic strainer in gas tank
	Locations	and paper filter element in carburetor inlet
Carburetor	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air cleaner type	Standard
		Optional
	Idle speed (spec. neutral or drive)	Manual
	Automatic	500/D
Idle A/F mix.		Not specified

Carburetor Supplementary Information

Model Usage	Piston Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
1AH57	305 LG3	Automatic	Rochester	17057108	One: 2-bbl.	1.69
	350 LM1	Automatic	Rochester	17057202 (17057502)	One; 4-bbl.	1.38 Prim. 2.25 Sec.

NOTE: Data bracketed () pertains to engine application specific to California

(a) 1800 RPM at pump outlet

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Engine Displacement

V8 - 305 (LG3)	V8-350 (LM1)
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Vehicle Emission Control (Continued)

	Type (ventilates to atmos., induction system, other)	Standard	Induction system
		Optional	
Crankcase Emission Control	Control Unit	Make and model	AC Spark Plug 6487728
		Location	Left front rocker cover
		Energy source (manifold vacuum, carburetor, other)	Manifold vacuum
		Control method (variable orifice, fixed orifice, other)	Variable orifice
	Complete System	Discharges (to intake manifold, other)	Intake manifold
		Air inlet (breather cap, other)	Carburetor air cleaner
		Flame arrestor (screen, other)	Screen
Evaporative Emission Control	Fuel Tank	Thermal expansion volume (cu. ft.)	Approximately 10% of refill capacity
		Relief pressure (psi) and location	1.1 PSI
		Vacuum relief (psi) and location	.7 PSI
		Vapor-liquid separator type	Integral with fuel tank
		Vapor vented to (crankcase, canister, other)	Canister
	Carbu- retor	Vapor vented to (crankcase, canister, other)	Internally vented
			--
	Vapor Storage	Storage provision (crankcase, canister, other)	Canister
		Volume (cu. ft.) or capacity (grams)	Approximately 50 grams
		Control valve type	Controlled by orifice and carburetor throttle body and throttle blade position

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Car Line MONTE CARLO "S"
 Model Year 1977 Issued 9/76 Revised (●) _____

Engine Displacement

V8-305 & V8-350 LG3 LM1 Except California	V8-350 (LM1) California only
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Vehicle Emission Control

Type (Air injection, engine modifications, other)		Engine modifications	Air Injection
Air Injection Pump	Type	Controlled Combustion System	Semi-articulated vane type
	Displacement		19.3 cubic inch
	Drive ratio		1.15:1
	Drive type		Crankshaft pulley
	Relief valve (type)		Diverter valve
	Filter (describe)		Centrifugal air cleaner
Air Injection System	Air distribution (head, manifold, etc.)		Exhaust pipe
	Point of entry		Exhaust pipe
	Injection tube i.d.		.2700
	Check valve type		Pressure plate system
	Backfire protection (type)		Diverter Valve
Exhaust Gas Recirculation System	Type (controlled flow, open orifice, other)		Controlled flow
	Valve type		Vacuum modulated shut-off and metering valve
	Valve location		Right rear of inlet manifold
	Control energy source		Carburetor vacuum
	Exhaust source		Manifold exhaust crossover
	Exhaust cooler type		None
	Orifice no. and size		One; .030
	Point of exhaust injection (spacer, carburetor, manifold, other)		Inlet manifold
Catalytic Converter System	Catalyst	Type	Platinum - palladium
		Volume	260 cu.in.
	Substrate type		Alumina
	Container location		Beneath right front underbody
Other	Carburetor		Thermostatically controlled air cleaner
	Hot Air		regulates and mixes, heated air with incoming cold air to reduce hydrocarbon emission

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 Model Year 1977 Issued 9/76 Revised (●) _____

Engine Displacement

V8-305 C.I. LG3	V8-350 C.I. LMI
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Electrical — Ignition System — Distributor

Breaker gap (in.)		Not applicable	
Cam angle (deg.)		Not applicable	
Brkr. arm tension (oz.)		Not applicable	
Distributor	Manual	Not available	
	Automatic	1103239	1103246 (1103248)
Timing	Manual	Not available	
	Automatic	8° @ 500	8° @ 500 (8° @ 500)

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at In. of Mercury	
	Start	Intermediate	Maximum	Start	Maximum
1103239	0 @ 1200	13 @ 2000	20 @ 4200	0 @ 4	15 @ 10
1103246	0 @ 1200	12 @ 2000	22 @ 4200	0 @ 4	18 @ 12.0
1103248	0 @ 1200	12 @ 2000	22 @ 4200	0 @ 4	10 @ 8.0

Note: Items bracketed () are specific to California engine.

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Car Line MONTE CARLO "S"
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Engine Displacement

V8 - 305 (LG3)	V8-350 (LM1)
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Electrical — Supply System

Battery	Make and Model		Delco Remy 1980240
	Voltage Rtg & Total Plates		12V (3200 watts) 66 plates
	SAE Designation No. and/or capacity		0 ^o -350 amps; -20 ^o -270 amps 80 minutes reserve capacity
	Location		Right side of engine compartment
	Terminal grounded		Negative
Generator or Alternator	Make		Delco Remy
	Model		1102394
	Type and rating		Diode rectified 37 amps
	Output at engine idle (neutral)		12-20 amps
	Ratio—Gen. to Cr/s rev.		2.73:1
Regulator	Make		Delco Remy
	Model		--
	Type		Micro circuit unit, integral with alternator
	Cutout relay	Closing voltage @ generator rpm	None
		Reverse current to open	None
	Regulated	Voltage	13.8-14.8 @ 85 ^o F
		Current	
Voltage test conditions	Temperature	Operating	
	Load	3-8 amperes	
	Other	None	

Electrical — Starting System

Starting Motor	Make		Delco Remy
	Model		1108776
	Rotation (drive end view)		Clockwise
Motor Drive	Engagement type		Positive shift solenoid
	Pinion engages from (front, rear)		Rear
	Number of teeth	Pinion	9
		Flywheel	Manual
	Auto.		168
	Flywheel tooth face width	Manual	--
Auto.		.4100-.4220	

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Engine Displacement

V8-305 (LG3); V8-350 (LMI)

Drive Units—Clutch (Manual Transmission)

Make & type		
Type pressure plate springs		
Total spring load (lb.)	NOT	
No. of clutch driven discs		
Clutch facing	Material	
	Manufacturer	APPLICABLE
	Part Number	
	Rivets/Plate	
	Rivet size	
	Outside & inside dia.	
	Total eff. area (sq. in.)	
	Thickness	
Release bearing	Type & method of lubrication	
	Torsional damping	Methods springs, friction material

Drive Units—Transmissions

Manual 3-speed (std. opt. N.A.)	NA
Manual 4-speed (std. opt. N.A.)	NA
Automatic (std. opt. N.A.)	STANDARD

Drive Units — Manual Trans.

Number of forward speeds		
Transmission ratios	In first	
	In second	NOT
	In third	
	In fourth	
	In reverse	APPLICABLE
Synchronous meshing, specify gears		
Shift lever location		
Lubricant	Capacity (pt.)	
	Type recommended	
	SAE viscosity number	Summer
		Winter
Extreme cold		

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Car Line **MONTE CARLO "S"**
 Model Year **1977** Issued **9/76** Revised (●)

Engine Displacement

V8-305 (LG3); V8-350 (LM1)

Electrical—Ignition System

Type	Conventional - Std., Opt., N.A.	--	
	Transistorized - Std., Opt., N. A.	--	
	Other (specify)	High Energy Ignition System (H.E.I.)	
Coil	Make	Delco Remy	
	Model	Integral with distributor	
	Current	Engine stopped	--
		Engine idling	--
Spark Plug	Make	AC Spark Plug	
	Model	R45TS	
	Thread (mm)	14	
	Tightening torque (lb. ft.)	25 (original) 15 (replacement)	
	Gap	.045	
Cable	Conductor type	Fiberglass core impregnated with electrical conducting material	
	Insulation type	Rubber with silicone jacket	
	Spark plug protector	Silicone rubber	

Electrical—Suppression

Locations & type	Non-metallic high tension ignition cables
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Electrical—Instruments and Equipment

Speedometer	Type	Dial with pointer
	Trip odometer (std. opt., N. A.)	Not available
EGR maintenance indicator		Not available
Charge Indicator	Type	Tell-tale
	Warning device	NA
Temperature Indicator	Type	Tell-tale
	Warning device	NA
Oil pressure Indicator	Type	Tell-tale
	Warning device	NA
Fuel Indicator	Type	Electric gauge
	Warning device	Not available
Windshield Wiper	Type - standard	Electric two-speed
	Type - optional	Intermittent windshield wiper system
	Blade length	16.0"
	Swept area sq.in.	834.8
Windshield Washer	Type - standard	Push - button
	Type - optional	None
	Fluid level indicator	NA
Horn	Type	Vibrator
	Number used	One-Two Optional (a)
	Current draw (A) per horn	4.5-6.5 @ 12.5

Other	Restraint system warning light and buzzer. Parking brake and brake failure warning light.
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(a) Two Standard with Landau option (RPO Z03)

MVMA Specifications Form Passenger Car

Car Line **MONTE CARLO "S"**
 Model Year **1977** Issued **9/76** Revised (●) _____

Engine Displacement

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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	Not available
	Manual 4-speed trans.	Not available
	Automatic transmission	2.75 x 53.65 x 0.065
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.	Saginaw 44
	Number used	Two
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	Strap & bolt
	Bearing	Type (plain, anti-friction)
Lubric (fitting, prepack)		Pre-Pack
Drive taken through (torque tube or arms, springs)		Control arm
Torque taken through (torque tube or arms, springs)		Control arm

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

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Car Line MONTE CARLO "S"
 Model Year 1977 Issued 9/76 Revised (●) _____

Engine Displacement

V8-305 (LG3); V8-350 (LM1)

Drive Units—Automatic Transmission

Trade name		Turbo Hydra-matic
Type (describe)		Torque converter with planetary gears
Selector location		Lever-steering column; floor mounted when used with optional console and bucket seats
Gear Ratios	P	Park
	R	1.94
	N	Neutral
	D	2.52-1.52-1.00
	L2	2.52-1.52
	L1	2.52
Max. upshift speed - drive range		81
Max. kickdown speed - drive range		77
Torque Converter	Number of elements	3
	Max. ratio at stall	2.00
	Type of cooling (air, liquid)	Water
	Nominal diameter	11.75
Lubricant	Capacity - refill (pt.)	8
	Type recommended	Dexron II
Special transmission features		

Drive Units—Axle

Type (front, rear)		Rear	
Description		Semi-floating axles overhung hypoid drive pinion and ring gear	
Limited Slip differential, type		Disc Clutches	
Drive Pinion Offset		1.50	
No. of differential pinions		Two	
Pinion adjustment (shim, other)		Shims	
Pinion bearing adj. (shim, other)		Collapsible sleeve	
Wheel bearing type		Direct single row cylindrical	
Lubricant	Capacity (pt.)	4.25	
	Type recommended	Meeting military specs. MIL - L - 2105B	
	SAE viscosity number	Summer	SAE 80 - 90
		Winter	SAE 80 - 90
		Extreme cold	SAE 80 - 90

Axle Ratio Tooth Combinations (See "Power Teams" for axle ratio usage)

Axle ratio		2.56	3.08
No. of teeth	Pinion	16	13
	Ring gear	41	40
Ring Gear O D		8.50	

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Car Line MONTE CARLO "S"
 Model Year 1977 Issued 9/76 Revised (●) _____

Body Type And/Or Engine Displacement

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Brakes — Service

Brake Type (std., opt., N.A.)	Drum	Front	--	
		Rear	Standard	
	Disc	Front	Standard	
		Rear	--	
Self adjusting (std., opt., N.A.)			Standard	
Special Valving	Type (proportion, delay, metering, other)			
			Metering and proportioning	
Power Brake (std., opt., N.A.)			Standard	
Booster Type (remote, integral, etc.)			Integral	
Effective area (sq. in.)*			111.17	
Gross lining area (sq. in.)**			116.9	
Swept area (sq. in.)***			348.57	
Drum	Diameter (nominal)	Front	--	
		Rear	11.0	
Type and material		Finned, cast iron		
Rotor	Outer working diameter		11.0	
	Inner working diameter		7.18	
	Thickness		1.03	
	Material & type (vented/solid)		Cast iron, vented	
Wheel cylinder bore	Front		2.9375	
	Rear		.9375	
Master Cylinder	Bore		1.125	
	Stroke		1.408	
Pedal arc ratio			3.5:1	
Line pressure at 100 lb. pedal load				
Shoe Clearance	Front		Self adjusting	
	Rear		Self adjusting	
Anti-skid device type (std., opt., N.A.)			N.A.	
Bonded or riveted, rivets/seg.			Riveted	
Rivet size			Front .210 x .359; Rear .143 x .250	
Manufacturer			Delco Moraine	
Part number			Front 18000282, Rear 18000181	
Brake Lining	Front Wheel	Material		Molded asbestos
		Size (length x width x thickness)	Prim. or out-board	5.40 x 1.92 x 0.465
			Second. or in-board	5.40 x 1.92 x 0.465
		Segments per shoe		One
	Shoe thickness		.630	
	Rear Wheel	Material		Molded asbestos
		Size (length x width x thickness)	Prim. or out-board	8.87 x 2.0 x 0.25
			Second. or in-board	11.12 x 2.0 x 0.30
Segments per shoe		One		
Shoe thickness		Primary .325; Secondary .365		

* Excludes rivet holes, grooves, chamfers, etc.
 ** includes rivet holes, grooves, chamfers, etc.
 *** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia. minus square of Inner Working Dia. multiplied by 1/2 for each brake.)

MVMA Specifications Form Passenger Car

Car Line MONTE CARLO "S"
 Model Year 1977 Issued 9/76 Revised (●) 2/77

Body Type And/Or Engine Displacement, Etc.

--

Drive Units — Tires And Wheels (Standard)

TIRES	Size, load range, ply		GR 70 x 15B	
	Type (bias, radial, etc.)		Radial Steel Belted	
	Inflation pressure (cold) for recommended max. vehicle load	Front	*	28
		Rear	*	28
	Rev./mile @ 45 mph			763
WHEELS	Type & material		Short spoke disc, steel	
	Rim (size & flange type)		15 x 7	
	Wheel offset		0.30	
	Attachment	Type (bolt or stud)		Stud
		Circle diameter		4.75
		Number & size		Hex nuts 7/16-20 UNF-2B
	Spare wheel (same or other)			Same

Drive Units — Tires And Wheels (Optional)

Size, load range, ply	
Type (bias, radial, etc.)	
Wheel type & material	Turbine type (a) & Rally type
Rim (size, flange type, and offset)	15 x 7 - 0.30
Size, load range, ply	
Type (bias, radial, etc.)	
Wheel type & material	
Rim (size, flange type, and offset)	
Size, load range, ply	
Type (bias, radial, etc.)	
Wheel type & material	
Rim (size, flange type, and offset)	
Size, load range, ply	
Type (bias, radial, etc.)	
Wheel type & material	
Rim (size, flange type, and offset)	
Size, load range, ply	
Type (bias, radial, etc.)	
Wheel type & material	
Rim (size, flange type, and offset)	

Brakes — Parking

Type of control	Foot pedal apply; 'T' handle release	
Location of control	Under 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)	

***Full rated pressure shown—selected tire pressures are contingent on weight of vehicle**

(a) Turbine II wheels standard with Landau option (RPO Z03)

MVMA Specifications Form Passenger Car

MONTE CARLO "S"
 Car Line _____
 Model Year 1977 Issued 9 / 76 Revised (●) _____

Body Type And/Or Engine Displacement

--

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 under bumper lower face of front and rear bumper	
Shock absorber front & rear	Type	Direct double acting hydraulic
	Make	Delco
	Piston dia.	1.00
Other special features		

Suspension — Front

Type and description	Independent - SLA type with coil springs	
Travel	Full Jounce	3.54
	Full Rebound	4.20
Spring	Type (coil, leaf, other)	Coil
	Material	Steel alloy
	Size (coil design height & I.D., bar length x dia.)	11.0 x 4.05; 128.96 x .668 (a)
	Spring rate (lb. per in.)	365 (a)
	Rate at wheel (lb. per in.)	100.4
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	HR steel; 1.00

Suspension — Rear

Type and description	Linked; Salisbury axle fixed by control arms	
Drive and torque taken through	Control arms	
Travel	Full Jounce	3.80
	Full Rebound	4.87
Spring	Type (coil, leaf, other)	Coil
	Material	Steel Alloy
	Size (length x width, coil design height & I.D., bar length & dia.)	10.0 x 5.50; 110.8 x .548 (a)
	Spring rate (lb. per in.)	115 (a)
	Rate at wheel (lb. per in.)	125.0
	Mounting insulation type	Natural rubber
	If leaf	No. of leaves
	Shackle (comp. or tens.)	--
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	HR Steel; 1.00
Track bar type		

(a) For base equipped model. Springs for all models computer selected by size and rate according to vehicle weights, including optional equipment.

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Steering

Manual (std., opt., NA)		NA		
Power (std., opt., NA)		Standard; energy absorbing steering column		
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt; universal jointed steering shaft at base of steering wheel; 5-inch vertical travel		
	(std., opt., NA)	NA		
Wheel diameter	Manual	--		
	Power	15.25		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	42.81	
		Curb to curb (l. & r.)	38.93	
	Inside rear	Wall to wall (l. & r.)	11.77	
		Curb to curb (l. & r.)	10.94	
Manual	Gear	Type		
		Make		
		Ratios	Gear Overall	
	No. wheel turns (stop to stop)			
Power	Type (coaxial, linkage, etc.)		Integral gear and power piston with vane type gear	
	Make		Saginaw steering	
	Gear	Type	Semi-reversible, recirculating ball nut	
		Ratios	Gear	15.0:1 on center to 13.0:1
			Overall	16.5:1 on center to 14.3:1
	Pump driven by		Crankshaft pulley	
No. wheel turns (stop to stop)		3.074		
Linkage	Type		Parallelogram (hydraulic dampener used on relay rod)	
	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.)		9.6 @ 1° camber	
	Bearings (type)	Upper	Ball stud with non-metallic surfaces	
		Lower	Ball stud with non-metallic surfaces	
		Thrust	None	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		P5 + 1/2	
	Camber (deg.)		Left P1 + 0.8; Right P1/2 + 0.8	
	Toe-in (outside track inches)		- 1/16 + 0.12	
Steering spindle & joint type		Forging with pad for mounting brake cylinder spherical		
Wheel Spindle	Diameter	Inner bearing	1.2493 - 1.2498	
		Outer bearing	0.7493 - 0.7498	
	Thread size		3/4-20 NEF-3 (modified)	
	Bearing type		Taper roller	

MVMA Specifications Form Passenger Car

Car Line MONTE CARLO "S"
 Model Year 1977 Issued 9/76 Revised (●) _____

Body Type

SPORT COUPE

Convenience Equipment

Power windows	Side windows	Optional
	Vent windows	NA
	Backlight or tailgate	—
Power seats (specify type as well as availability)	Optional-6 way 50/50 power bench seat Optional 6-way bench seat	
Reclining front seat back (R-L or both)	Included in front seat 50/50 bench option (R)	
Radios (specify type as well as availability)	Optional, push button; AM, AM-FM, AM-FM Stereophonic; AM with stereo tape, AM-FM with stereo tape	
Rear seat speaker	Optional	
Power antenna	NA	
Clock	Standard	
Air conditioner (specify type and availability)	Optional-Four season, with manual control	
Speed warning device	NA	
Speed control device	Optional	
Ignition lock lamp	NA	
Dome lamp	Standard	
Glove compartment lamp	Standard	
Luggage compartment lamp	Optional	
Underhood lamp	Optional	
Courtesy lamp	Optional	
Map lamp	Optional	
Cornering light lamp	NA	
Rear window defroster electrically heated	NA	
Rear window defogger	Optional	
Windshield antenna	Available with factory installed radio	
Power door locks	Optional	
Swivel bucket seats	Optional	

Lamp Height And Spacing*

Height above ground to center of bulb or marker	Headlamp (H125)	Highest**	30.2
		Lowest	—
	Tail (H126)	Highest	29.3
		Lowest	—
Sidemarker	Front	16.0	
	Rear	13.5	
Distance from C/L of car to center of bulb	Headlamp	Inside	—
		Outside**	26.0
	Tail	Inside	—
		Outside	30.8
	Directional	Front	33.8
		Rear	30.8

*Measured with passenger load and trunk/cargo load specified in Car and Body Dimension section.

**If single headlamps are used enter here.

**MVMA Specifications Form
Passenger Car**

Car Line MONTE CARLO "S"
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Body Type

SPORT COUPE

Frame

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

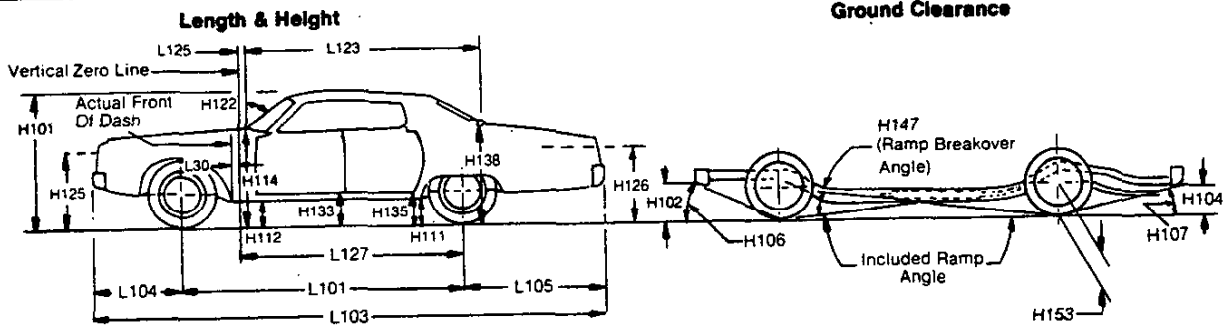
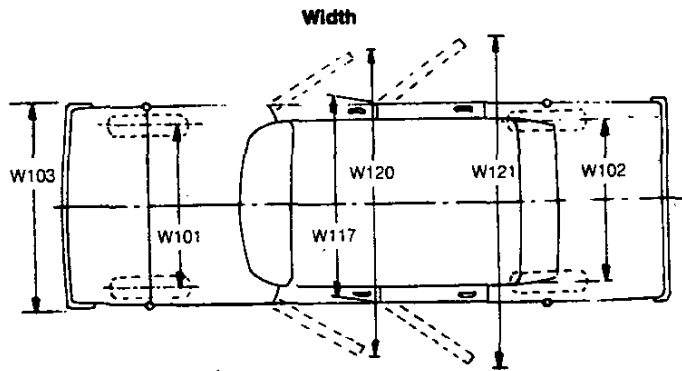
All welded perimeter frame with front cross member, rear axle upper control arm cross member and rear cross member.

Body — Miscellaneous Information

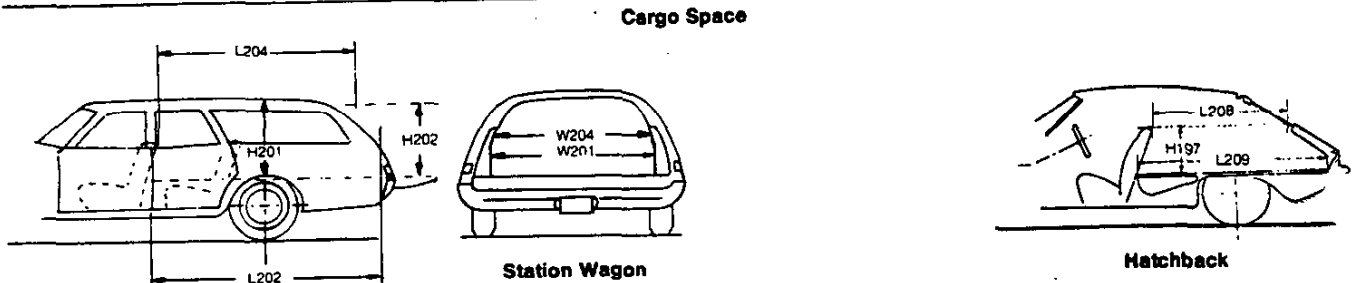
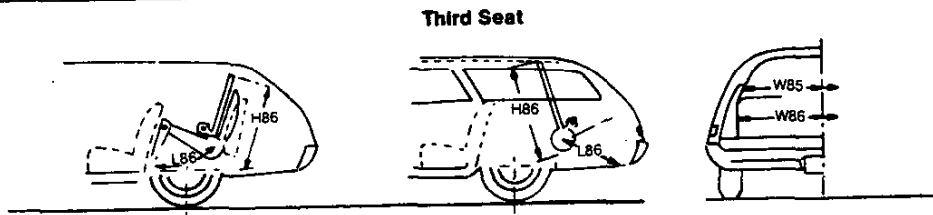
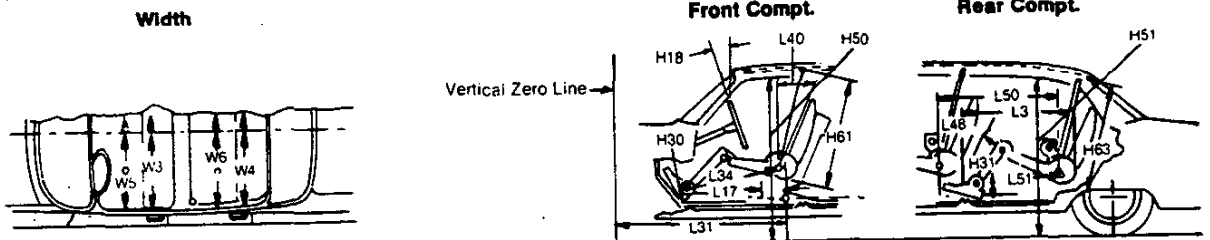
Type of finish (lacquer, enamel, other)		Acrylic lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		Internal
Vehicle Ident. No. location		Top left hand of instrument panel pad
Theft protection - type		Lock mounted on steering column; locks steering wheel, transmission, shift levers and ignition
Vent window control method (crank, friction pivot, power)	Front	None
	Rear	--
Seat cushion type	Front	Formed polyfoam
	Rear	Formed polyfoam
	3rd seat	--
Seat back type	Front	Formed polyfoam
	Rear	Formed polyfoam
	3rd seat	--
Windshield glass type		Curved-laminated plate
Side glass type		Curved-tempered plate
Backlight glass type		Curved-tempered plate
Windshield glass exposed surface area		1276.6
Side glass exposed surface area		1429.1
Backlight glass exposed surface area		902.3
Total glass exposed surface area		3608.0

MVMA Specifications Form Passenger Car

Exterior Car And Body Dimensions — Key Sheet



Interior Car And Body Dimensions — Key Sheet



MVMA Specifications Form Passenger Car

Car Line MONTE CARLO "S"
 Model Year 1977 Issued 9/76 Revised (e) _____

Body Type

Vehicle Fiducial Marks

Fiducial Mark
Number *

Define Coordinate Location

- | | |
|-------|--|
| Front | <p>X - Fiducial Mark to Centerline of Car - Front,
Width measurement made from centerline of car to fiducial mark located on top of the front seat adjuster mounting bolt.</p> <p>Y - Fiducial Mark to Vertical Body Zero Line - Front
Measured horizontally from the body zero line to the front fiducial mark located on top of the front seat adjuster mounting bolt.</p> <p>Z - Fiducial Mark to Horizontal Body Zero Line - Front
Measured vertically from body zero line to the front fiducial mark located on top of the front seat adjuster mounting bolt.</p> |
| Rear | <p>X - Fiducial Mark to Centerline of Car Rear,
Width measurement made from centerline of car to fiducial mark located on the rear underbody crossbar.</p> <p>Y - Fiducial Mark to Vertical Body Zero Line - Rear
Measured horizontally from body zero line to the rear fiducial mark located on rear underbody crossbar.</p> <p>Z - Fiducial Mark to Horizontal Body Zero Line - Rear
Measured vertically from body zero line to the rear fiducial mark located on the rear underbody crossbar.</p> |

Fiducial Mark
Number

Coordinate Location of
Fiducial Mark

Fiducial Mark
to Ground
at Curb

Front	X 22.72	Y 28.50	Z 4.83	10.30
Rear	X 12.70	Y 130.54	Z 9.50	14.66

* Reference — SAE Recommended Practice, J182

MVMA Specifications Form

Passenger Car

Interior Car And Body Dimensions — Key Sheet

Dimension Definitions

Front Compartment Dimensions

- L31 H POINT TO VERTICAL ZERO LINE — FRONT is a horizontal dimension.
- H61 EFFECTIVE HEAD ROOM — FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- H75 EFFECTIVE T POINT HEADROOM — FRONT. The arc dimension from the T Point to the headlining plus 30 inches.
- L34 MAXIMUM EFFECTIVE LEG ROOM — ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
- H30 H POINT TO HEEL POINT — FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.
- W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the H-point—front within the belt line to 10 inches above the H-point—front.
- W5 HIP ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the H-point—front within 1.0 inches below and 3.0 inches above the H-point height and 3.0 inches fore and aft of the H-point.
- H50 UPPER BODY OPENING TO GROUND — FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.
- H18 STEERING WHEEL ANGLE — VERTICAL. The angle measured from a vertical to the surface plane of the steering wheel.
- L40 BACK ANGLE — FRONT. The angle measured between a vertical line through the H-Point-Front and the torso line.

Rear Compartment Dimensions

- L50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H63 EFFECTIVE HEAD ROOM — REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- H76 EFFECTIVE T POINT HEADROOM — REAR. Measured in the same manner as H75.
- L51 MINIMUM EFFECTIVE LEG ROOM — REAR. Measured along a diagonal line from the ankle pivot center to the H

Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.

- H31 H POINT TO HEEL POINT — REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L48 KNEE CLEARANCE. The minimum dimension measured from the knee pivot center to the back of front seatback minus 2.0 inches.
- L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
- W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the H-point—second within 10.0-16.0 inches above the H-point—second.
- W6 HIP ROOM—SECOND. Measured in the same manner as W5.
- H51 UPPER BODY OPENING TO GROUND — REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

Luggage Compartment Dimensions

- V1 LUGGAGE CAPACITY — USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

Station Wagon — Third Seat Dimensions

- W85 SHOULDER ROOM—THIRD. Measured in the same manner as W4.
- W86 HIP ROOM—THIRD. Measured in the same manner as W5.
- L86 EFFECTIVE LEG ROOM — THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H86 EFFECTIVE HEAD ROOM — THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.
- H89 EFFECTIVE T POINT HEADROOM — THIRD SEAT. Measured in the same manner as H75.

MVMA Specifications Form

Passenger Car

Exterior Car And Body Dimensions — Key Sheet

Dimension Definitions

Width Dimensions

- W101 WHEEL TREAD — FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD — REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT NO. 2 PILLAR. Measured across body at No. 2 pillar, excluding hardware and applied moldings.
- W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN is measured to outside of sheet metal with front doors in maximum hold-open position.
- W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN is measured in same manner as W120.

Length Dimensions

- L30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual front of dash is to the rear of Body Zero line, it is identified by a minus (—) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG — FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG — REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L125 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

Height Dimensions

- H101 OVERALL HEIGHT — DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.

- H112 ROCKER PANEL TO GROUND — FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
- H132 BOTTOM OF DOOR TO GROUND, CLOSED — FRONT is the same point on the door as H132 dimension, with door closed.
- H111 ROCKER PANEL TO GROUND — REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H135 BOTTOM OF DOOR TO GROUND, CLOSED — REAR is measured in same manner as H132.
- 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 compensated by an 18-inch chord.
- H125 HEADLAMP CENTERLINE TO GROUND is measured vertically to the center of the upper lamp.
- H126 TAIL LAMP CENTERLINE is measured vertically from ground to the centerline of the upper bulb.

Ground Clearance Dimensions

- H102 BUMPER TO GROUND — FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND — REAR. Minimum dimension, includes bumper guards.
- H105 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H152 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND is a minimum clearance.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

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MVMA Specifications Form Passenger Car

Interior Car And Body Dimensions — Key Sheet Dimension Definitions

Station Wagon — Cargo Space Dimensions

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

$$\frac{W4 \times L204 \times H201}{1728}$$

Hatch Back — Cargo Space Dimensions

All hatch back cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatch back door is in the closed position (For electrically adjusted seats, see manufacturer's specifications for Design 'H' Point).

- H197 FRONT SEAT BACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seat back to the undepressed floor covering.
- L208 CARGO LENGTH AT FRONT SEAT BACK HEIGHT. The horizontal dimension measured from the top rear of front seat back to the inside limiting interference of the hatch back door on the car centerline.
- L209 CARGO LENGTH AT FLOOR — FRONT SEAT. The horizontal dimension measured at floor level from the rear of the front seat back to the normal limiting interference of the hatch back door on the car centerline.
- V3 HATCH BACK — CARGO INDEX VOLUME. Hatch back cargo index volume is to be determined by the following formula, and expressed in terms of cubic feet.

$$\frac{L208 + L209}{2} \times W4 \times H197$$

1728

MONTE CARLO

FABRIC/PAIN/ VINYL ROOF SELECTOR

Fabric Colors

Seat, Headliner and Door Trim Color	Black	Blue	Buckskin	Firethorn	Green	White	White	White	White
Instrument Panel Pad and Carpet Color	Black	Blue	Saddle	Firethorn	Green	Black	Blue	Firethorn	Green

Seat and Fabric Applications

Model	Seat Type	Black	Blue	Buckskin	Firethorn	Green	White	White	White	White
COUPE	Knit Cloth Bench	•	•		•					
	Vinyl Bench	•		•	•	•	•	•	•	•
	Vinyl Bucket			•	•		•	•	•	•
	Special Custom Vinyl 50/50			•			•	•	•	•
	Special Custom Cloth 50/50		•	•	•					

Paint Colors (without Fashion-tone Styling)

Exterior Paint Color	Color Code												
	L	U											
Black	19	19	R	A	R	R	A	R	A	R			
Blue, Dark (Met)	29	29	A	R					A	R			
Blue, Light (Met)	22	22	R	R					A	R			
Blue-Green, Dark (Met)	48	48	A		R		R	A					R
Brown (Met)	69	69			R			A					
Buckskin, Light	61	61	R		R	R		A					
Buckskin (Met)	63	63	R		R			A					
Cream Gold	50	50	R					R					
Firethorn (Met)	36	36	A		R	R		A				R	
Green, Medium (Met)	44	44	A		A		R	R					R
Orange (Met)	78	78	R		R			R					
Red, Medium	72	72	A		R	R		A				R	
Silver	13	13	R			R		R					
White, Antique	11	11	R	R	R	R	R	R	R	R	R	R	R

L=Lower U=Upper

Paint Colors (with Fashion-tone Styling)

Exterior Paint Color	Color Code												
	L	U	V										
Blue, Light (Met)	22	22	DD	A	R								A
Buckskin, Light	61	61	UU	A		R							
Silver	13	13	QQ	R			A			A			

L=Lower U=Upper V=Vinyl Roof DD=Blue UU=Buckskin QQ=Silver

PLEASE NOTE: The exterior and interior combinations shown in the charts above and designated as recommended (R), represent the ideal combinations. Those that are shown as acceptable (A), are attractive, but less desirable than the recommended combinations.

Vinyl Roof Applications

Vinyl Roof Colors	PAINT COLORS	
	Recommended	Acceptable
Black	11,13,19,22,50,61,63,78	29,36,44,48,72
Blue	11,22,29	
Buckskin	11,19,48,61,63,69,78	36,44,72
Firethorn	36	11
Green	11,44,48	
Silver	13,19	11,29,36,72
White	ALL EXCEPT 13	13

Vinyl Roof Selections required when ordering Landau Option.



Like you, it's an original.

Monte Carlo's introduction seven years ago marked the beginning of a new kind of automobile. Some people called it a "personal-size" car. Yet this referred less to size than to a state of mind, for Monte Carlo was conceived as a highly individual, very personal automobile that would appeal to a particularly discriminating buyer.

And so it did. There was no other car quite like this one. It was luxurious, yet affordable. Beautiful, but restrained. Large enough for a family, but not cumbersome. Best of all, it was designed to be a road car, with clean, crisp reflexes. An immediate success, Monte Carlo spawned a host of imitators. But none has captured the imagination as Monte Carlo has, and with good reason.

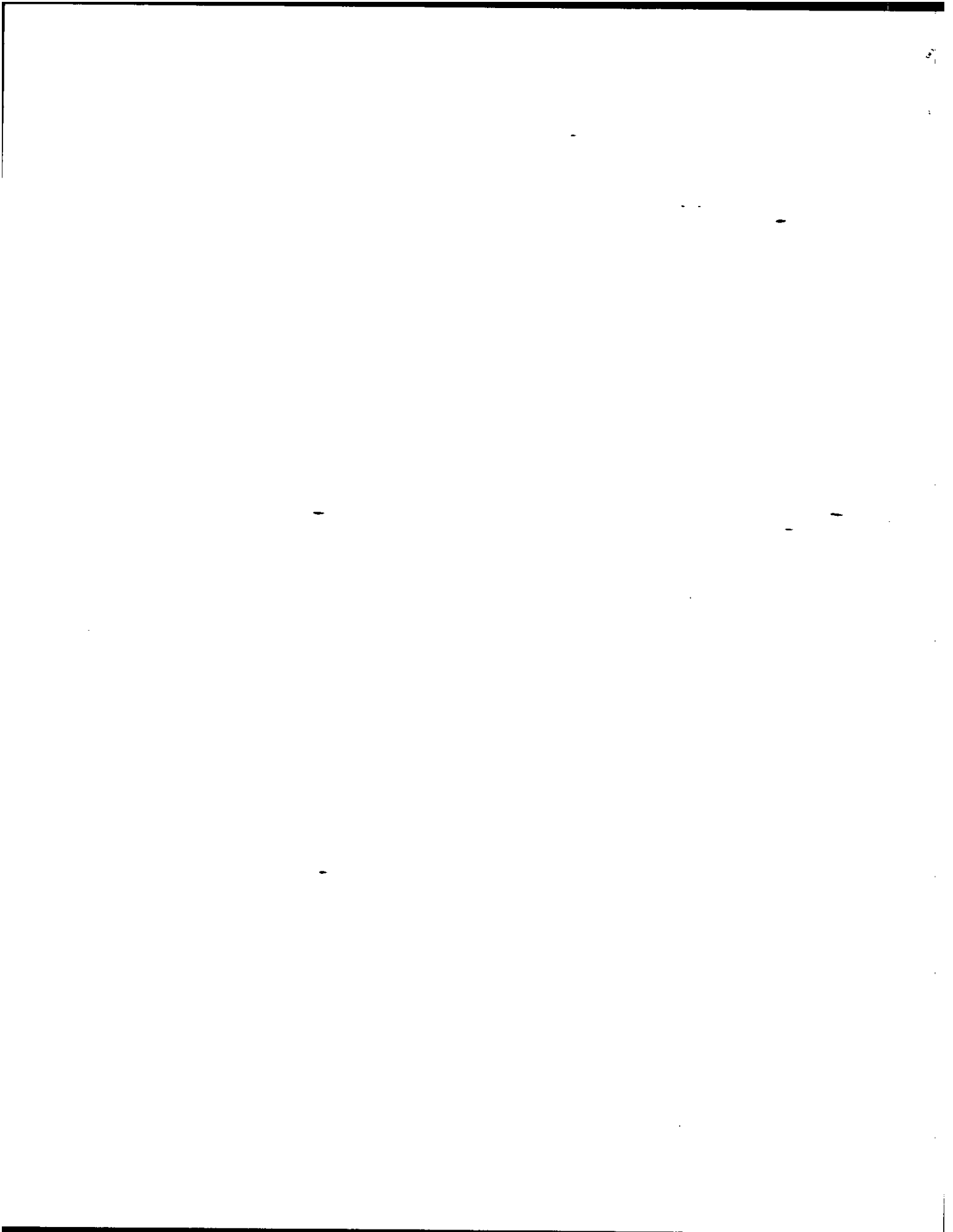
Monte Carlo's popularity is based on sound considerations. It is first and foremost a driver's car, designed from the ground up to respond to the driver's needs.

The front suspension has a high caster angle on the front wheels. Also, front and rear stabilizers help hold the car flat on curves. Variable-ratio power steering makes tight parking turns easy, yet on the road you have a fine feeling of the road. A hydraulic damper on the steering linkage helps smooth out road shocks and steering wheel vibration. GR70 x 15 steel-belted radial ply tires on wide seven-inch wheels, coupled with radial-tuned Full Coil suspension, provide a taut feel for the road. All of this is standard and basic to the nature of the car. You drive it, it doesn't drive you.

Inside, Monte Carlo is quiet, comfortable and handsomely appointed. Deep cut-pile carpeting, molded full foam seating, rich rosewood vinyl accents, electric clock and other details indicate a car meant to be fully enjoyed.

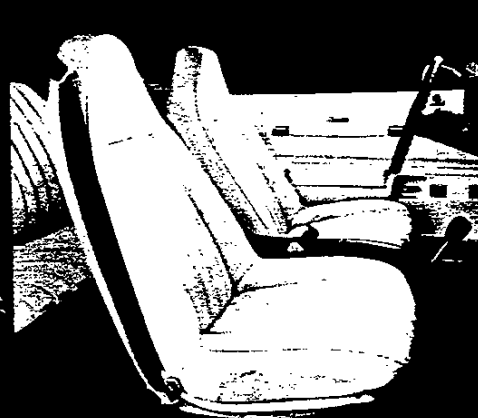
The sum of these parts is a car that makes driving the keen pleasure it should be. It also explains why last year, as in every preceding year, Monte Carlo outsold every other car in its specialty class. This continuing popularity contributes to Monte Carlo's traditionally high resale value. For all its imitators, it remains a blend of beauty and responsiveness all its own.

To own a Monte Carlo is to own an original. It is surely a pleasure you owe yourself.





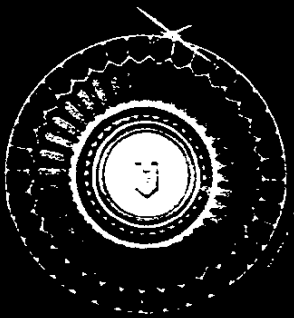
1



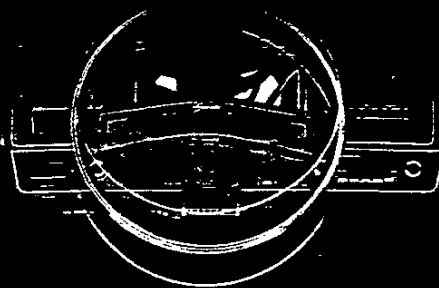
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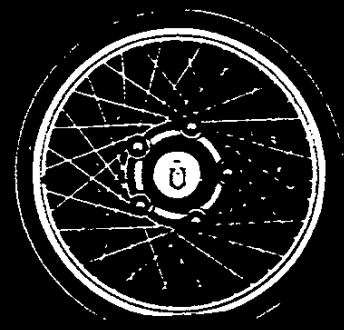
3



4



5



6



7



9



11



12

To a very personal car, add your own personal touch.

The fact that Monte Carlo is so abundantly equipped accounts for much of its widespread appeal. But to make it reflect your special needs, consider the many available options listed here.

1. All-vinyl seat available in black, green, buckskin or firethorn; also white with carpeting and other accents in black, blue, green or firethorn.
2. Contoured swivel bucket seats swing around to a 90° angle to simplify getting in and out. Available in buckskin or firethorn all-vinyl. Also white all-vinyl with surrounding decor (instrument panel, carpet, cowl kick panels and rear shelf) in choice of blue, firethorn, green or black.
3. Special Custom Interior, handsome and comfortable, includes 50/50 seat. Each side individually adjusts forward or back; passenger seat back reclines for relaxed travel on long trips. Available in blue, buckskin or firethorn Special Custom cloth or buckskin all-vinyl. Also white all-vinyl with surrounding decor as described in item 2 above.
4. Deluxe metal wheel covers feature a highly styled, formal look.
5. Comfortilt steering wheel adjusts to six positions to conform to driving tastes; makes getting in and out easier.
6. New Sport wheel covers of bright, corrosion-resistant material have a classic design; special crest accents the center.
7. Power trunk opener is a desirable convenience. Touch a button inside the car and trunk pops open instantly effortlessly.
8. Power door lock system, a feature designed for security and convenience, has a master control on each door.
9. Fashion-Tone styling makes subtle use of complementary exterior colors.

10. Four-Season air conditioning combines cooling, heating, defrosting and defogging in one easily operated unit.

11. Consider the Delco sound systems produced to General Motors and Chevrolet quality standards: AM radio, AM/FM radio, AM/FM stereo radio, and an eight-track stereo tape system with either AM or AM/FM stereo radio. Windshield antennas included with factory-installed radios. Only genuine Delco radios carry the Delco-GM trademark.

12. Illuminated visor mirror on passenger side makes a welcome nighttime addition.

Convenience and comfort.

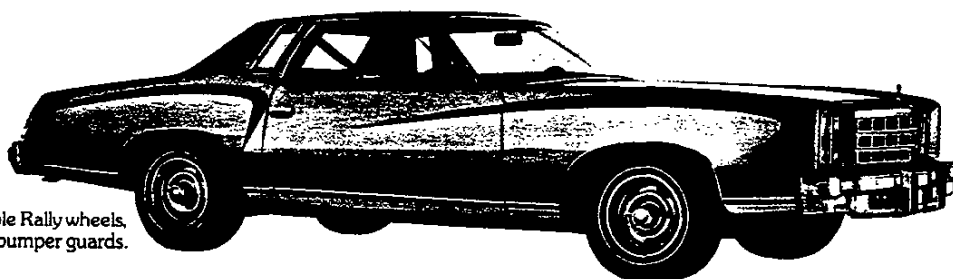
Electrically operated Sky Roof opens at touch of a button, inviting in sunlight and outside air. (Not available on Monte Carlo Coupe with full vinyl roof cover.) • Power front seat adjusts six ways, up and down, forward and back, even tilts. Available for standard bench seat or driver's side of available 50/50 seat • Power windows have master switch on driver's side, a second switch on right door for passenger window • Floor console with transmission shift control. (Available only with swivel bucket seats.) • Electro-Clear rear window defogger, with heating element on glass, dispels mist quickly • Forced-air rear window defogger • Tinted glass softens glare of outside light • Map light, a desirable nighttime aid • Sport mirrors match body color; remote-controlled on driver's side. (Standard on Landau.) • Twin remote-control sport mirrors, body colored • Remote-control outside mirror for driver's side. (Not available on Landau.) • Auxiliary Lighting includes underhood light, glove compartment light, luggage compartment light, ashtray light, front floor area light, headlight reminder buzzer and map light • Rear seat speaker for radios and tape players • Space-saving Stowaway spare.

Appearance.

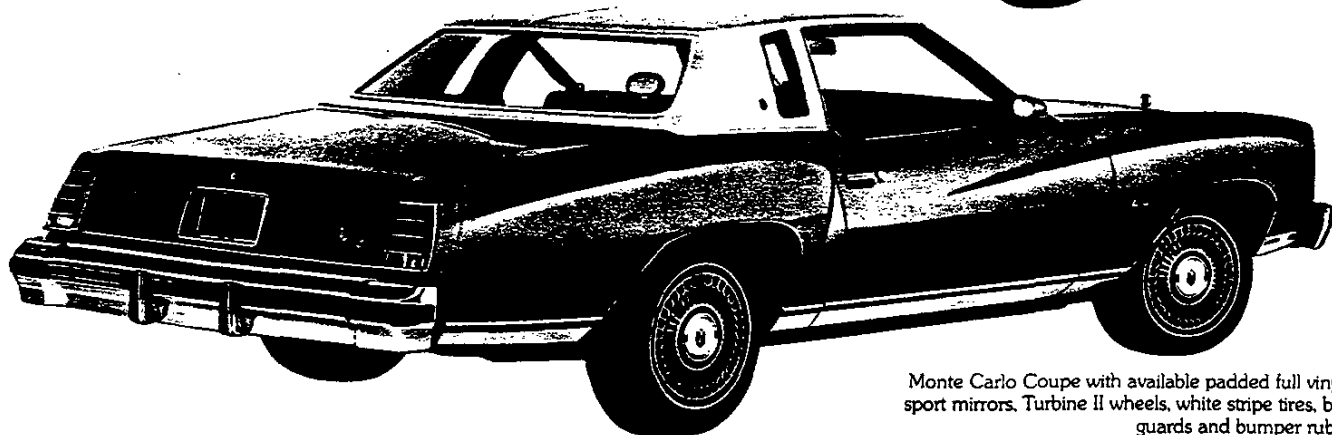
Padded full vinyl roof cover for a sporty look. (Not available on Landau.) In white with all exterior colors, as well as black, blue, green, buckskin, firethorn or si¹ depending on exterior color • Deluxe co. keyed seat and shoulder belts. (Included with Special Custom Interior.) • Bumper guards for front and rear protection • Resilient bumper rub strips, front and rear, cushion during light impact • Floor mats color-keyed to interior • Body side molding with vinyl insert color-keyed to exterior • Aluminum door-edge guards help protect against chipped paint • White stripe, GM-Specification steel-belted radial ply tires • Sleekly styled Rally wheels.

Mechanical.

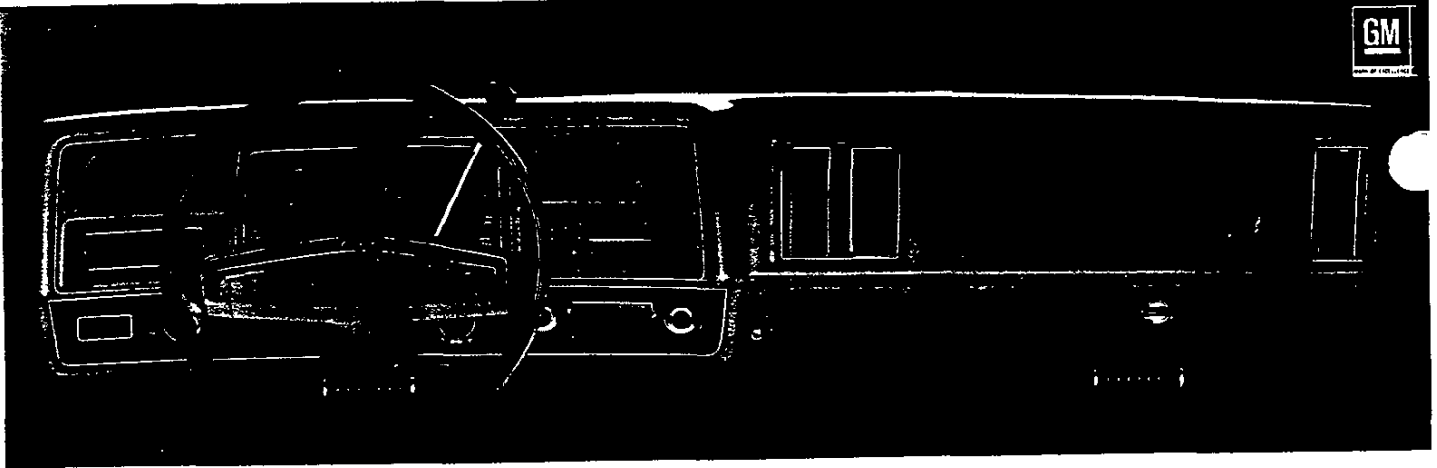
Cruise-Master speed control maintains a pre-selected speed, disengages by light touch on brake; excellent for long highway drives • Intermittent windshield wiper system for use in light rain or mist puts wiper action at speed set by driver • Econominder Gauge Package tells when car is running in economical range. Includes engine temperature gauge and voltmeter • Positraction rear axle supplies power to wheel with most traction for use in snow or mud • Heavy-duty suspension, front and rear, has special rate springs and shock absorbers for hauling heavy loads; required for trailering • Heavy-duty battery • Heavy-duty Delcotron generator, 61 amp • Heavy-duty radiator.



Monte Carlo Coupe with available Rally wheels, white stripe tires and bumper guards.



Monte Carlo Coupe with available padded full vinyl roof, sport mirrors, Turbine II wheels, white stripe tires, bumper guards and bumper rub strips.



Monte Carlo is a car with high standards.

What takes Monte Carlo out of the ordinary is an extensive list of standard features. It is, consequently, a complete car which accounts for much of its popularity.

Interior.

Rich-looking rosewood vinyl accents on instrument panel and steering wheel • Color-keyed steering column, steering wheel and instrument cluster • Electric clock • Molded full foam front and rear seat construction • Wall-to-wall nylon cut-pile carpeting of one-piece construction runs under front seat to help create a more luxurious, quiet interior • Flow-through power ventilation for driving comfort • Door pull straps • Standard interior has conventional bench seat in blue, firethorn or black knit cloth. All-vinyl available in buckskin, green, firethorn or black. Also white with surrounding decor (instrument panel, carpet, cowl kick panels and rear shelf) in choice of blue, firethorn, green or black.

Exterior.

New front styling features dramatic new grille and standup hood ornament • Vertically positioned dual headlights • New smartly styled taillights plus new end caps • Full wheel covers • Hide-A-Way windshield wipers • Magic-Mirror acrylic finish in 14 color choices: Antique White, Silver, Black, Light Blue Metallic, Dark Blue Metallic, Firethorn Metallic, Medium Green Metallic, Dark Blue-Green Metallic, Cream Gold, Light Buckskin, Buckskin Metallic, Brown Metallic, Medium Red and Orange Metallic.

Monte Carlo Landau features.

The Monte Carlo Landau offers the following distinctive additions to satisfy your personal tastes: • Landau vinyl roof cover for a highly sophisticated look • Dual body-color sport mirrors, remote controlled on driver's side • Turbine II wheels • Visor vanity mirror • Pinstriping fender accent • Attractive Landau crests on door trim panel and roof rear quarter.

What helps make Monte Carlo the road car it is.

Variable-ratio power steering gives a fine driving feel on the road, makes parking easy • GR70 x 15 GM-Specification steel-belted radial ply tires • Front and rear

stabilizer bars • Specially tuned shock absorbers • Wide 15" x 7" wheels.

Long service intervals.

Monte Carlo offers lengthy recommended service intervals. Engine oil changes and chassis lubrication are recommended every 6 months or 7,500 miles; oil filter changes after the first 7,500 miles and every 15,000 miles thereafter. Spark plugs should last for up to 22,500 miles and transmission fluid for 60,000 miles. Complete details in Owner's Manual.

Power team, body and chassis.

Base engine is the 305 V8. The reputable 350 V8 engine is available • Turbo Hydramatic transmission shifts automatically through three forward speed ranges. Can also be shifted manually • High Energy Ignition for responsive ignition performance • Catalytic converter that handles most of the emissions control • Power front disc brakes are fade-resistant and self-adjusting, with audible wear sensors that warn when linings need replacing. Finned rear brake drums are designed to run cool, resist fade • New chassis refinements include corrosion protection for frame and a refined front suspension • Coolant recovery system helps prevent coolant loss • Dual horns • Delcotron generator • Sealed side-terminal battery eliminates buildup of corrosion on terminals • Special body insulation for a quiet ride features large one-piece rear quarter insulators plus a generous amount of sound deadeners • Separate perimeter-type frame • 22-gallon fuel tank.

Sizes outside and inside.

Wheelbase: 116"; length: 213.3"; width: 77.6"; loaded height: 52.8"; tread: front—61.9", rear—60.7". Inside head room: front—37.0", rear—37.1"; hip room: front—54.8", rear—52.7"; shoulder room: front—58.8", rear—58.1"; leg room: front—42.4", rear—32.9". Usable luggage space: 14.7 cu. ft.

For your safety and security.

Occupant protection.

Seat belts with pushbutton buckles for all passenger positions • Two front combination seat and inertia reel shoulder belts for driver (with reminder light and buzzer) and right front passenger • Energy-absorb steering column • Safety steering wheel • Passenger-guard door locks • 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 • Safety armrests.

Accident prevention.

Side marker lights and reflectors • Parking lamps that illuminate with headlamps • Four-way hazard warning flasher • Lane-change feature in direction signal control • Backup lights • Windshield defrosters, washers and dual-speed wipers • Wide-view inside day-night mirror (vinyl-edged, shatter-resistant glass and deflecting supports) • Outside rearview mirror • Dual master cylinder brake system with warning light • Starter safety switch • Dual-action safety hood latch.

Anti-theft.

Ignition-key reminder buzzer • Steering column lock.

Many Options and Custom Features are available for Monte Carlo. Some are illustrated or described in this catalog.

All illustrations and specifications contained in this literature are based on the latest product information available at the time of publication approval. The right is reserved to make changes at any time without notice in prices, colors, materials, equipment, specifications and models, and to discontinue models. Chevrolet Motor Division, General Motors Corporation, Detroit, Michigan 48202. LITHO IN U.S.A.

Engine	Carburetor Barrels	Net HP Rating	Engine Usage	Turbo Hydramatic
305 V8 (5.0 litre)*	2	145	Std.	Std.
350 V8 (5.7 litre)**†	4	170	Avail.	Std.

*Not available in California or with High Altitude Emission Equipment.

**California Emission Equipment required for registration in California.

†In other states, High Altitude Emission Equipment may be required in areas 4,000 feet or more above sea level.





MONTE CARLO

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Prices shown are effective with vehicles manufactured on and after June 27, 1977

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D&H [§]	List Price	Mfr's Suggested Retail Price
REFER TO DEALER ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION						
Floor Covering: 2 front and 2 rear color-keyed floor mats	B37					18.00
Generator, 61-Amp Delcotron: Included with C60 air conditioning or C49 defogger.	K76					29.00
Glass, Soft-Ray Tinted: All Windows.	A01					61.00
Lighting, Auxiliary: Includes ashtray, courtesy, luggage compartment and underhood lights plus headlamp warning buzzer.						
Without CA1 sky roof. Also includes mirror map light.	ZJ9					33.00
With CA1 sky roof.	ZJ9					27.00
Luggage Compartment Trim, Deluxe: Includes black cut pile floor carpeting and carpeted spare tire cover.	B48					38.00
Mirrors:						
Outside Rearview, LH Remote.	D33					15.00
Sport, Body-Colored LH Remote and RH Manual. Standard on Z03 Landau.	D35					32.00
Sport, Twin Remote						
Without Z03 Landau.	D68					53.00
With Z03 Landau.	D68					21.00
Visor Vanity. Standard on Z03 Landau.	D34					4.00
Visor Vanity, Illuminated						
Without Z03 Landau.	D64					35.00
With Z03 Landau.	D64					31.00
Moldings:						
Body Side, Deluxe. Includes color-keyed vinyl insert.	BW2					51.00
Door Edge Guard.	B93					9.00
Radiator, Heavy-Duty.	V01					29.00
Radio Equipment:						
AM Radio.	U63					72.00
AM /FM Radio.	U69					146.00
AM /FM Stereo Radio.	U58					226.00
Stereo Tape System with AM Radio.	UM1					225.00
Stereo Tape System with AM /FM Stereo Radio.	UM2					324.00
Speaker, Rear Seat.	U80					23.00
Windshield Antenna. Included with radio.	U76					17.00
Seat, Power: Electric, 6-Way Control. Front seat only. Driver's side only with 50 /50 interior trim.	A42					143.00
Sky Roof: Electric. Sliding metal top.	CA1					394.00
Speed Control: Cruise-Master.	K30					84.00
Steering Wheel: Comfortilt.	N33					63.00
Stowaway Spare Tire.	N65				NO ADDITIONAL CHARGE	
Suspension Equipment: Suspension, Heavy-Duty Front and Rear. Includes special front and rear springs and matching shock absorbers.	F40					19.00
Tires:						
GR70-15 /B Steel Belted Radial Ply Blackwall (Standard).	QBX				NO ADDITIONAL CHARGE	
GR70-15 /B Steel Belted Radial Ply White Stripes						
Without N65 stowaway spare tire.	QCX					45.00
With N65 stowaway spare tire.	QCX					36.00
Trunk Opener, Power: Electric.	A90					18.00
Wheel Trim:						
Wheel Covers, Deluxe.	PA3					20.00
Wheel Covers, Sport						
Without Z03 Landau.	PB2					66.00
With Z03 Landau.	PB2					(-23.00)
Wheels, Rally. Includes styled wheels, special hub caps and trim rings.	ZJ7					50.00
Windows, Power: Electric.	A31					114.00
Windshield Wiper System: Intermittent.	CD4					30.00

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

§ D&H amounts reflect provision for pass through of tire weight tax imposed on manufacturer or importer of tires.

◇ State and local taxes not included.

MONTE CARLO

1977 VEHICLES WITH STANDARD EQUIPMENT

Prices shown are effective with vehicles manufactured on and after June 27, 1977

Description	Model Number	Body Code	Wheel-base	Dealer Invoice Amount*	Dealer Price	Factory D&H‡	List Price	Mfr's Suggested Retail Price*	Destination Charge & Group Number	Total
◆ 8-Cylinder Engine										
Coupe	1AH57	—	116"					4978.65	5
Landau Coupe	1AH57	Z03	116"					5308.65	5

★ Manufacturer's Suggested Retail Prices do not include applicable destination charges, state and local taxes, license fees, options or accessories.
 ◆ Refer to Dealer Order Guide for California Requirements.

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Prices shown are effective with vehicles manufactured on and after June 27, 1977

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D&H‡	List Price	Mfr's Suggested Retail Price◇
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REFER TO DEALER ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION

Interior Trim:						
P**1 Knit Cloth Bench Seat					NO ADDITIONAL CHARGE	
V**1 Vinyl Bench Seat						22.00
V**2 Vinyl Bucket Seats						171.00
L**3 Special Custom Cloth 50 /50 Seat. Includes reclining passenger seat.						293.00
T**3 Special Custom Vinyl 50 /50 Seat. Includes reclining passenger seat.						315.00
Exterior Color:						
Paint, Solid					NO ADDITIONAL CHARGE	
Styling, Fashion-Tone	Z20					112.00
Roof Cover, Vinyl. Standard on Z03 Landau.						131.00
Engines: (Refer to Dealer Order Guide for Emission System Requirements)						
305-2 BBL V8	LG3				NO ADDITIONAL CHARGE	
350-4 BBL V8	LM1					90.00
Air Conditioning: Four-Season. Includes K76 generator and increased cooling.	C60					514.00
Axles, Rear:						
Performance Ratio	G92					14.00
Positraction	G80					54.00
Battery, Heavy-Duty	UA1					17.00
Belts, Deluxe: Color-Keyed Seat and Shoulder. Included with special custom trim. Includes brushed metal buckles. (Standard belts and plastic buckles are black). Replacing standard number of belts.						
With bench seat—6 seat and 2 front shoulder.	AK1					19.00
With bucket seats—5 seat and 2 front shoulder.	AK1					17.00
Bumper Equipment: Front and Rear.						
Bumper Rub Strips. Includes black resilient impact strips	VE5					34.00
Guards, Bumper.	V30					39.00
Console: Shift lever mounted on console.	D55					75.00
Container, Litter: Color-Keyed.	D24					6.00
Defogger, Rear Window:						
Forced-Air	C50					48.00
Electro-Clear. Includes K76 generator.	C49					87.00
Door Lock System, Power: Electric.	AU3					74.00
Econominder Gauge Package: Includes temperature, voltmeter and economy gauges.						
	UF7					47.00
Emission Systems:						
California Emission Certification. Includes all testing, equipment and /or certification necessary for registration in the State of California.	YF5					70.00
High Altitude Emission Equipment.	NA6					22.00
Standard Emission Equipment.	NA2				NO ADDITIONAL CHARGE	

* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with Vehicle Terms of Sale Bulletin.
 ‡ D&H amounts reflect provision for pass through of tire weight tax imposed on manufacturer or importer of tires.
 ◇ State and local taxes not included.