GENERAL

ORIGINAL COPY

MODEL IDENTIFICATION

BODY	SERIES NAME	BODY STYLE	MODEL DESIGNATION	PASS OR SEATS
B-CAR	IMPALA	4-Dr. Sedan	1BL69	6
		2-Dr. Coupe	1BL47	6
		4-Dr. Station Wagon	1BL35	2-Seat*
	CAPRICE CLASSIC	4-Dr. Sedan	1BN69	6
		2-Dr. Coupe	1BN47	6
		4-Dr. Station Wagon	1BN35	2-Seat*

*Third seat available – RPO AQ4.

ONLY BASIC DESIGNATIONS SHOWN

VEHICLE IDENTIFICATION NUMBER

Vehicle Designation Interpretation

1 L 69 G 9 J 100001

- 1 — Make (" 1" for Chevrolet)
- L — Car line & Series (***)
- 69 — Body Style (last two digits of model Number)
- G — Engine Type (**)
- 9 — Model Year 1979
- J — Assembly Plant (*)
- 100001 — Sequential No.

*J – Janesville–GMAD S – St. Louis–GMAD
#1 – Oshawa-Canadian Plt. C – Southgate–GMAD
D – L6-250 (115 H.P.)
**G – V8-305 (130 H.P.)
L – V8-350 (170 H.P.)
***L – Impala Models N – Caprice Classic

EXAMPLE: The twenty-fifth Chevrolet vehicle built at GMAD Janesville if it were a 1BL69 model (Impala Sedan) with a V8-305 (130 H.P.) engine would bear VIN number 1L69G9J100025.

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

TRANSMISSION IDENTIFICATION

Example: Y9E01

Type Designation	Source Designation	Model Year 1979	Production* Month & Date
6TP	Y (Toledo)	9	E01D*

6TP	3-Speed Auto.	L-6 engine	B – Parma Y – Toledo
6TA	3-Speed Auto.	V-8 engine	B – Parma Y – Toledo

Location:
3-Speed Automatic . . . . . Stamped on right side of transmission, above filler plug.

*-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.

ENGINE IDENTIFICATION

Example: 1L210DKB

Source Designation	Production* Month & Date	Type Designation
1 (Flint)	L210	DKB

4.1 L, 250 Cubic Inch L-6, Base Engine (RPO L22)

DKB – Regular production engine, 3-Speed Automatic

5.0 L, 305 Cubic Inch V-8 engine (RPO LG3)

DNL – Optional, 3-Speed Automatic, 2-bbl. carb.

5.7 L, 350 Cubic Inch V-8 engine, (RPO LM1)

DRA – Optional, 3-Speed Automatic, 4-bbl. carb.

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

*-Month: December, 12; 10th day of December, 10

REAR AXLE IDENTIFICATION

2GF – 2.41 Axle
2YD – 2.56 Axle
2NC – 2.73 Axle
2UF – 3.08 Axle

Location, Identification Number
Bottom left or right of axle tube adjacent to carrier housing.

See Power Train section for additional information.

STANDARD EXTERIOR EQUIPMENT
SEDANS AND COUPES

	Impala	Caprice Classic
FRONT		
Windshield Reveal Moldings	X	X
Concealed Windshield Wipers with Articulated Left Arm	X	X
Bumper Mounted Parking Lamps	X	X
Bright Upper and Lower Grille, Caprice Emblem on Header Panel	X	X
Argent Grille, Bow Tie Emblem centered on Grille	X	
Bright Headlamp Bezels on Header Panel	X	X
'Chevrolet' Block on Left Side of Grille		X
'Chevrolet' Block over Left Headlamps	X	
Bright Grille Frame Moldings	X	X
Bright Fender and Hood Moldings	X	X
SIDE		
Fender Mounted Front Markers	X	X
Rear Quarter Marker Lamps	X	X
'Impala' Script on Sail Panel	X	
'Caprice Classic' Nameplate on Sail		X
Rectangular 5" Outside L.H. Rear View Mirror	X	X
Rocker Panel Moldings–Bright	X	
Bright Body Side Lower Molding Paint Filled		X
Colored PVC Body Side Molding with Bright Mylar Border	O	O
Flush Door Handle–Bright	X	X
Bright Door Belt Molding	X	X
Wheel Trim Covers	O	X
Hub Caps	X	
Bright Roof Drip Moldings	X	X
Bright Door Upper Frame Moldings	X	X
Wheel Opening Moldings	O	X
Vinyl Top or Two-Tone Paint Molding	O **	O
Quarter Window Reveal Molding Bright and Painted	47	47
Bright Quarter Lower Molding Paint Filled		X
REAR		
Deck Lid Nameplate–"Chevrolet"	X	X
Rear Window Reveal Molding–Bright	X	X
Four Tail and Stop Lamps and Two Back-Up Lamps	X	
Six Tail and Stop Lamps and Two Back-Up Lamps		X
Caprice Crest on Taillamps		X

O Optional Usage
** Color keyed to top.

STANDARD EXTERIOR EQUIPMENT
STATION WAGONS

FRONT	Impala	Caprice Classic
Bright Windshield Reveal Moldings	X	X
Concealed Windshield Wipers with Articulated Left Arm	X	X
Bumper Mounted Parking Lamps	X	X
Bright Upper and Lower Grille, Caprice Emblem on Header Panel		X
Argent Grille, Bow Tie Emblem centered on Grille	X	
Bright, Headlamp Bezels	X	X
'Chevrolet' Block on Left Side of Grille		X
'Chevrolet' Block over Left Headlamps	X	
Bright Grille Frame Moldings	X	X
Bright Fender and Hood Moldings	X	X
SIDE		
Fender Mounted Front Markers	X	X
Rear Quarter Marker Lamps	X	X
Rectangular 5" Outside L.H. and R.H. Rear View Mirror	X	X
Bright Rocker Panel Moldings	X	
Bright Body Side Lower Mldg. Paint Filled		X
Bright Roof Drip Moldings	X	X
Wheel Trim Covers	O	X
Hub Caps	X	
Bright Flush Door Handle	X	X
Bright Door Upper Frame Moldings	X	X
Wheel Opening Moldings	O	X
Bright Rear Painted Quarter Window Reveal Molding	X	X
Body Side Wood-Grain Applique and Border Moldings		O
Rear Quarter Series Nameplate	X	X
Colored PVC Body Side Molding with Bright Mylar Border	O	O
Bright Two-Tone Paint Molding	O	O
Bright Door Belt Molding	X	X
Sail Panel Emblem		X
REAR		
Tailgate Nameplate–"Chevrolet"	X	X
Tailgate Wood-Grain Applique and Border Molding		O
Bright Tailgate Opening Molding		X
Bright Tailgate Belt and Weatherstrip Moldings	X	X
Bright Trimmed Single Tail, Stop and Back-Up Lamps	X	X
Bright Tailgate Handle	X	X
Bright Electric Tailgate Window Control	X	X
Tailgate Molding – Black PVC with Bright Mylar Insert	X	
Tailgate Molding – Argent PVC with Bright Mylar Border	O	
Tailgate Emblem – Bow Tie	X	
Tailgate Emblem – Caprice Crest		X
Tailgate Lower Molding		X

O Optional Usage

STANDARD INTERIOR EQUIPMENT
SEDANS AND COUPES

INSTRUMENT PANELS AND STEERING WHEELS	Impala	Caprice Classic
Glove Compartment Light	X	X
Cigarette Lighter	X	X
Clock, Electric	O	X
Clock Hole Cover	X	
Instrument Panel Knobs Bright with Rosewood Insert	X	X
Instrument Panel Pad–Upper	X	X
Instrument Panel Upper Trim Plate with Series Nameplate	X (a)	X (b)
Instrument Cluster Bright and Rosewood Trim	X	X
Ash Tray – Illuminated	O	X
Ash Tray Face Plate–Painted	X	X
Windshield Wiper and Washer, Two Speed–Illuminated Control	X	X
Upper Ventilation Outlets and Controls–Black	X	X
Instrument Panel Courtesy Lights	O	X
Turn Signal and Shift Lever Knobs–Color Keyed	X	X
Steering Column Ignition Lock	X	X
Steering Wheel, Soft Vinyl Shroud and Rim – Shroud Insert and Chevrolet Nameplate Rosewood Insert	X	X (c)
Color-Keyed Steering Wheel, Shroud, and Column	X	X
Instrument Panel Rosewood Grain Trim and Bright (Upper Area)	X (d)	X (d)
Dual Horns	O	X
Single Horn	X	
Audio and Visual Lap Belt Warning System	X	X
Radio and Heater Control Trim Plate	X (e)	X (e)
GLASS		
Windshield, Laminated Safety Plate Glass	X	X
Backlight Safety Solid Plate Glass	X	X
Side Windows, Safety Solid Plate Glass	X	X

O Optional usage

(a) Bright, Impala script on instrument panel (no trim plate)
(b) Bright, Caprice Classic name on black hi-gloss trim plate
(c) Wheel rim has woodgrain insert
(d) Switch and glove box area (Rosewood and bright, Caprice) (cross grain texture & bright, Impala)
(e) Rosewood on Caprice and cross grain texture on Impala in colors.

NOTE: Rosewood is Hi-Gloss.

STANDARD INTERIOR EQUIPMENT
STATION WAGONS

INSTRUMENT PANEL AND STEERING WHEELS	Impala	Caprice Classic
Glove Compartment Light	X	X
Cigarette Lighter	X	X
Clock, Electric	O	X
Clock Hole Cover	X	
Instrument Panel Knobs Bright with Rosewood Insert	X	X
Instrument Cluster Bright and Rosewood Trim	X	X
Tailgate Window Switch	X	X
Instrument Panel Pad–Upper	X	X
Instrument Panel Upper Trim Plate with Series Nameplate	X (a)	X (b)
Ash Tray – Illuminated	O	X
Ash Tray Face Plate–Painted	X	X
Windshield Wiper and Washer, Two Speed–Illuminated Control	X	X
Upper Ventilation Outlets and Controls–Black	X	X
Instrument Panel Courtesy Lights	O	X
Turn Signal and Shift Lever Knobs–Color Keyed	X	X
Steering Column Ignition Lock	X	X
Steering Wheel, Soft Vinyl Shroud and Rim–Shroud Insert and Chevrolet Nameplate (Has Rosewood Insert)	X	X (c)
Color-Keyed Steering Wheel, Shroud and Column	X	X
Instrument Panel Rosewood Grain Trim and Bright (Upper Area)	X (d)	X (d)
Dual Horns	O	X
Single Horn	X	
Audio and Visual Lap Belt Warning System	X	X
Radio and Heater Control Trim Plate	X (e)	X (e)
GLASS		
Windshield Laminated Safety Plate Glass	X	X
Backlight, Safety Solid Plate Glass	X	X
Side Windows, Safety Solid Plate Glass	X	X

O Optional Usage

(a) Bright, Impala script on instrument panel (no trim plate)
(b) Bright, "Caprice Classic" name on black high-gloss trim plate
(c) Wheel rim has woodgrain insert
(d) Switch and glove box area (Rosewood and bright, Caprice) (cross grain texture and bright, Impala) in colors.
(e) Rosewood on Caprice and cross grain texture on Impala in colors

NOTE: Rosewood is High Gloss

INTERIOR EQUIPMENT

ROOF AND PILLARS	Impala			Caprice Classic		
	69	47	35	69	47	35
Headlining Cloth	X	X	X	X	X	X
Rear View Mirror, 12" Prismatic–Textured Black Vinyl Clad (F)	X	X	X	X	X	X
Rear View Mirror Support, Bonded to W/S, Black Painted (F)	X	X	X	X	X	X
Sunshade, Padded, Non-Hook Cloth (F)	X	X	X	X	X	X
Roof Side Rail Garnish Moldings–Painted Metal (F)	X	X	X	X	X	X
Rear Window Moldings–Painted Metal and Plastic (F)		X			X	
Rear Window Upper and Side Moldings–Plastic Painted Metal (F)	X			X		
Quarter Window Garnish Moldings–Painted Metal (F)			X			X
Windshield Garnish Moldings–Plastic (F)	X	X	X	X	X	X
Center Pillar Lower Finish Panel, Molded Plastic (F)	X		X	X		X
Center Pillar Upper Molding–Molded Plastic (F)	X		X	X		X
Rear Quarter Upper Trim Panel, Molded Plastic (F)		X			X	
Coat Hooks, Plastic–Trim Color (Bright) (F)	X	X	X	X	X	X
Center Dome Light–Plastic Lens (F)	X	X	X	X	X	X
Front Door Jamb Switch, Key Reminder and Dome Lamp, L.H. Pillar (F)	X	X	X	X	X	X
Front Door Jamb Switch for Dome Lamp R.H. Pillar (F)	X	X	X	X	X	X
Rear Door Jamb Switches for Dome Lamp (F)				X		X
SEATS AND FLOOR COVERING						
Front and Rear Seat Cushion and Backrest, Full Molded Foam (F)	X	X	X	X	X	X
Single Loop Seat Belt System uses Retractor, Located in Center Pillar on Sedans and Wagons and in Quarter Panel on Coupes for Both Seat and Shoulder Belt	X	X	X	X	X	X
Black Rear Seat Lap Belts (3 Sets) Locking Outer Retractors (F)	X	X	X	X	X	X
Front Seat Center Lap Belt, Black (F)	X	X	X	X	X	X
Front Seat Head Restraints (F)	X	X	X	X	X	X
Front Seat Center Armrest (F)				X		
Front Seat Bright Back–Side Trim Panels (F)				X	X	X
Package Shelf Embossed Board (F)	X			X		
Package Shelf Woven Fiber Board		X			X	
Folding Front Seat Back Locks–Bright (F)		X			X	
Carpet, Floor Covering–Nylon Cut Pile (F)	X	X	X	X	X	X

(F) Fisher Body Released

DOOR AND QUARTER PANEL (F)	Impala			Caprice Classic		
	69	47	35	69	47	35
Plastic Armrest with pad	X	X	X	X	X	X
Plastic Armrest with Pad and Ash Tray	X		X	X		X
Soft Trim Door Panel	X	X	X	X	X	X
Pull Type Door Handle	X	X	X	X	X	X
Rear Quarter Panel with Armrest and Ash Tray		X			X	
Window Control Handle Knobs, Clear Plastic	X	X	X	X	X	X
Door Lock Buttons–Bright	X	X	X	X	X	X
Door Trim Panel Carpet–Cut Pile plus Opt.				X	X	X
Rosewood Wood-Grain Door Panel Plaques, Bright Trim	X	X	X			
Cloth Insert				X	X	X
Front and Rear Door Locks 2-Position Free Wheeling	X	X	X	X	X	X
Front and Rear Door Pull Strap				X	X	X
Rear Quarter Sidewalls–Molded Plastic			X			X
LUGGAGE AREA AND MISC.						
Luggage Compartment Light (C)	X	X		X	X	
Luggage Compartment Spatter Paint (Black) (F)	X	X		X	X	
Luggage Compartment Mat–Tango Carpet (F)	X	X		X	X	
Load Floor–Textured Metal (F)			X			X
Storage Compartment Mat–Vinyl on Foam (F)			X			
Storage Compartment Lining–Vinyl on Foam (F)			O			X

(F) Fisher Body Released
(C) Chevrolet Released
O Optional usage

EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
Air conditioning, Four-Season (See page 13 for content)	C60	
Air conditioning, Comfortron: automatic temperature control (See page 13)	C61	
Battery, heavy duty	UA1	
Belts, seat and shoulder: in addition to or replacing standard belts.		
Deluxe belts: (Replacing standard number of belts)		
Coupe and Sedan – 6 seat and 2 shoulder	AK1	
Shoulder belts – 2 rear:		
For use when custom deluxe belts are ordered (Color keyed to interior)		
Body insulation package ("Silent Sound Group") base on 1BN00	BS1	
Carpet, Station Wagon load floor (Color-Keyed)	B39	
Cap, locking gas filler		ACC
Clock, electric, conventional (Standard on Caprice Classic)	U35	ACC
Compass		ACC
Cover, luggage carrier – wagon		ACC
Dispenser, tissue tunnel mount		ACC
Dome reading lamp	C95	
Door edge guards	B93	ACC
Electric trunk release – except wagon	A90	
Floor mats color-keyed – 2 front, 2 rear	B37	ACC
Front and rear bumper guards	V30	ACC
Generator: 63-amp Delcotron	K81	
Glass, Soft-Ray tinted: all windows (Includes w/s radio antenna)	A01	
Glass, windshield - tinted (Fleet and Canadian – includes radio antenna)	A02	
Harness, trailer wiring		ACC
Heater, engine block (Canada)	K05	
Hitch, trailer		ACC
Hitch, trailer, equalizing type		ACC
Horns, dual – base on 1BN00	U05	ACC
Interior car warmer		ACC
Lamp, portable spot		ACC
Lighting, auxiliary:	TR9	
Courtesy lights – (Standard on 1BN00 models)		
Luggage compartment light – Std. Impala and Caprice Classic sedans and coupes		ACC
Ash tray light – (Standard on 1BN00 models)		
Underhood light		ACC
Rear dome lamp – wagons		
Headlamp reminder buzzer part of ZJ9 package		ACC
Dome reading lamp		
Electronic Dome Lamp		
Litter container (RH cowl kick panel)	D24	
Litter container and tissue dispenser		ACC
Litter container, underseat unit		ACC
Lock, rear door safety		ACC
Luggage compartment trim deluxe (Except wagon)	B48	
Mat, front floor full width – vinyl		ACC
Mat, load floor–wagon		ACC
Mirrors, fender, for trailering (RH & LH)		ACC
Mirror, rear view L.H. outside remote-control	D33	
Mirror, rear view R.H. outside remote-control (Requires D33)	DF3	
Mirror, RH (to match LH remote or standard unit – standard on Station Wagons)		ACC
Mirrors, Sport Outside, Body Color, LH Remote & RH Manual	D35	
Mirrors, Dual Sport – RH and LH remote control type (Painted body color)	D68	
Molding, adhesive backed vinyl (roll or cut to length)		ACC
Moldings, body side – vinyl insert (color keyed)	B84	
Molding, wheel opening (Standard on 1BN00 models)	B96	

EQUIPMENT	RPO	ACC.
Radiator, heavy duty	V01	
Radio equipment: Radios, pushbutton – includes concealed w/s antenna		
AM Radio	U63	ACC
AM/FM Radio	U69	ACC
AM/FM/Stereophonic Radio	U58	ACC
Citizens Band Radio – Six channel plus antenna		ACC
Stereo Tape System with AM Radio	UM1	ACC
Stereo Tape System with AM/FM/Stereophonic Radio	UM2	ACC
Radio AM/FM Stereo with Cassette Player	UN3	
Radio AM/FM Monaural with Citizens Band Transceiver	UP5	
Radio AM/FM Stereo with Citizens Band Transceiver	UP6	
Radio AM/FM Stereo with Clock and Digital Display	UY8	
Mast antenna, RH front fender		ACC
Speaker, rear seat (Requires U63 or U69)	U80	ACC
Speakers, Dual Front	UX6	
Windshield antenna	U76	
Power Antenna	U75	
Rear window defogger (Forced air) (All except wagons)	C50	ACC
Electroclear	C49	
Roof cover, vinyl (Padded vinyl) (All except wagons)	C09	
Roof luggage carrier – wagon	V55	ACC
Seat, infant safety		ACC
Seat, child safety		ACC
Seat, 50-50 front bench	AT8	
Shock absorbers, rear:		
Superlift	G66	
Speed control: (Cruise-Master) Requires LG3 or LM1 Engines	K30	ACC
Steering wheel, comfortilt	N33	
Strips – impact – FR. and RR. bumper	VE5	
Suspension, heavy duty front and rear	F40	
Sport suspension (All except wagons) Requires QCX-Tire	F41	
Theft alarm audio		ACC
Custom two-tone paint (Includes stripe and door handle tape)		
Two-Tone finish: includes bright metal outline moldings	D99	
Visor vanity mirror, R.H. visor	D34	ACC
Wheel covers, simulated wire	N95	
Wheel covers, full: (All except 1BN00 models)	P01	ACC
Wheel covers, deluxe (New ABS plastic)	PB2	
Wipers, windshield – pulse type	CD4	

FACTORY-INSTALLED REGULAR PRODUCTION TIRES

FR78 x 15B – Steel belted radial ply Whitewall (Exc. Station Wagons)	QBW
FR78 x 15B – Steel belted radial ply Blackwall (Exc. Station Wagons)	QBU
GR70 x 15B – Steel belted radial ply Whitewall (With F41 suspension only)	QCX
GR78 x 15B – Steel belted radial ply Whitewall (Exc. Station Wagons)	QDR
HR78 x 15B – Steel belted radial ply Blackwall (Station Wagon)	QDU
HR78 x 15B – Steel belted radial ply White Stripe (Station Wagon)	QEL
FR78 x 15B – Steel belted radial ply Blackwall (Exc. Station Wagons)	QKA
FR78 x 15B – Steel belted radial ply Whitewall (Exc. Station Wagons)	QKB
GR78 x 15B – Steel belted radial ply Whitewall (Exc. Station Wagons)	QMK
FR78 x 15B – Fiberglass belted radial ply Whitestripe (Exc. Station Wagons)	QKN
FR78 x 15B – Fiberglass belted radial ply Blackwall (Exc. Station Wagons)	QKM

POWER TEAMS	RPO	ACC.
305 cu. in. V-8 (Sedans and Coupes) (Base on all wagons)	LG3	
350 cu. in. V-8 (Sedans, Coupes and Wagons)	LM1	
Automatic Transmission (All engines)	MX1	
Axle, positraction	G80	
Axle, high altitude ratio	G92	
POWER ASSISTS		
Door lock system, power	AU3	
Six-way Power Seat	AG9	
Tailgate, power (Wagon)	B1Q	
Windows, power	A31	
Trunk opener (Sedans and Coupes)	A90	

COMFORTRON AUTOMATIC TEMPERATURE CONTROL (RPO C61)

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

FOUR SEASON (RPO C60)

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

BASIC COMPONENTS

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

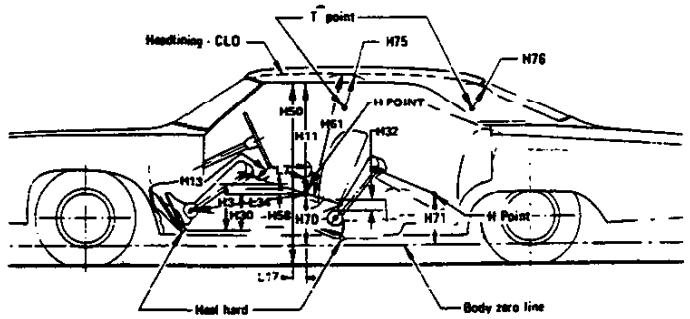
EQUIPMENT (Used in addition to or in place of base equipment)

POWER TRAINS

Fan Blade	7 blade w/L6; 5 blade w/V8
Fan Clutch	Thermomodulated fluid coupling
Crankshaft Pulley	Single three groove pulley
Water Pump & Fan Pulley	Single
Compressor & Crankshaft Belt	One
Generator	63 Ampere
Radiator	Heavy duty

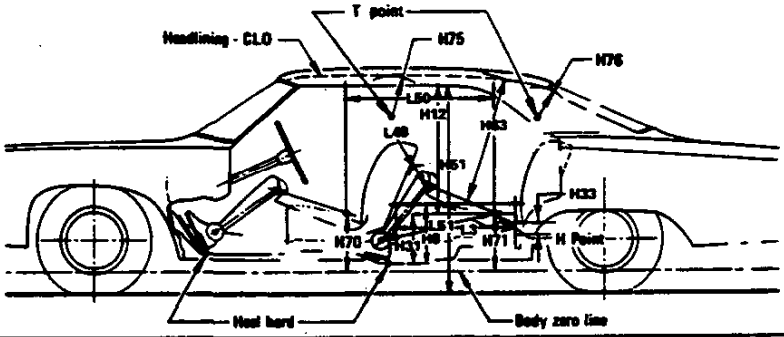
DIMENSIONS AND WEIGHTS

INTERIOR DIMENSIONS



FRONT COMPARTMENT

CODE	DESCRIPTION	SEDANS		COUPES		STATION WAGONS	
		1BL69	1BN69	1BL47	1BN47	1BL35	1BN35
H-3	Seat cushion height	263 (10.4)					
H11	Entrance height	791 (31.1)		777 (30.6)		791 (31.1)	
H13	Steering wheel to centerline of thigh	108 (4.3)					
H30	SgRP to heel point (chair height)	214 (8.4)					
H32	Seat cushion deflection	81 (3.2)					
H50	Upper body opening to ground	1285 (50.6)				1307 (51.5)	
H58	H point rise – Design	23 (0.9)					
H61	Effective headroom	1002 (39.4)	996 (39.2)	985 (38.8)	979 (38.5)	1007 (39.6)	1001 (39.4)
H70	SgRP to body base grid	196 (7.7)					
H75	Effective "T" point headroom	1007 (39.6)	1001 (39.4)	990 (39.0)	984 (38.7)	1012 (39.8)	1006 (39.6)
W3	Shoulder room	1544 (60.8)					
W5	Hip room	1398 (55.0)					
L7	Steering wheel torso clearance	342 (13.5)					
L17	H point travel – Design	163 (6.4)					
L34	Effective leg room	1076 (42.4)					



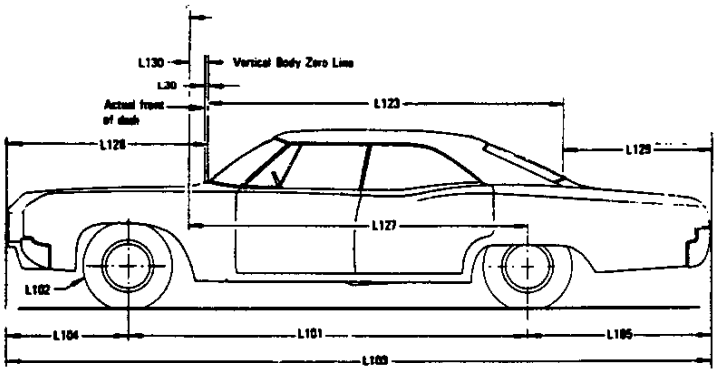
REAR COMPARTMENT

H8	Seat cushion height	363 (14.3)		342 (13.5)		359 (14.1)	
H12	Entrance height	785 (30.9)		--		775 (30.5)	
H31	SgRP to heel point (chair height)	292 (11.5)		273 (10.7)		307 (12.1)	
H33	Seat cushion deflection	102 (4.0)		113 (4.4)		105 (4.1)	
H51	Upper body opening to ground	1300 (51.2)		--		1315 (51.8)	
H63	Effective headroom	970 (38.2)	964 (38.0)	966 (38.0)	960 (37.8)	1000 (39.4)	994 (39.1)
H71	SgRP to body base grid	198 (7.8)		179 (7.0)		213 (8.4)	
H76	Effective "T" point headroom	967 (38.1)	961 (37.8)	962 (37.9)	956 (37.6)	1004 (39.5)	998 (39.3)
W4	Shoulder room	1545 (60.8)		1494 (58.8)		1546 (60.9)	
W6	Hip room	1405 (55.3)		1462 (57.6)		1398 (55.0)	
L3	Rear compartment room	773 (29.0)				722 (28.4)	
L48	Knee clearance	90 (3.5)		70 (2.8)		49 (1.9)	
L50	SgRP couple distance	882 (34.7)		851 (33.5)		844 (33.2)	
L51	Effective leg room	991 (39.0)		947 (37.3)		958 (37.7)	

LUGGAGE COMPARTMENT

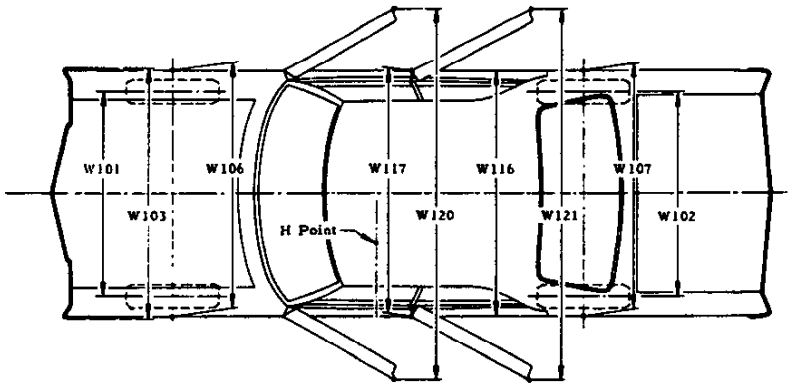
H195	Liftover height	796 (31.3)		--
V1	Usable luggage capacity (cu.ft.)	572 (20.2 Ft.^{3})	560 (19.8 ft.^{3})	--

* Primary Dimensions are millimetres unless otherwise shown.



LENGTHS

CODE	DESCRIPTION	SEDANS	COUPES	STATION WAGONS
L101	Wheelbase	2945 (116.0)		
L102	Tire size (standard)	FR78-15B		HR78-15B
L103	Overall length	5385 (212.1)		5454 (214.7)
L104	Overhang, front	1016 (40.0)		
L105	Overhang, rear	1424 (56.1)		1493 (58.8)
--	Overall length - less bumpers	5162 (203.2)		5213 (205.2)
L123	Body upper structure length at car centerline	2530 (99.6)	2652 (104.4)	3506 (138.0)
L125	Body base grid plane to windshield cowl point	235 (9.2)	236 (9.3)	235 (9.2)
L126	Front end length at centerline	1BN00 Models 1627 (64.0) -- 1BL00 Models 1623 (63.9)		
L127	Rear wheel centerline to body base grid line	2475 (97.5)		
L128	Front wheel centerline to body base grid line	0 470 (- 18.5)		
L129	Rear end length at centerline	1021 (40.2)	898 (35.3)	100 (3.9)
L30	Front of dash to body base grid	- 34 (- 1.3)		

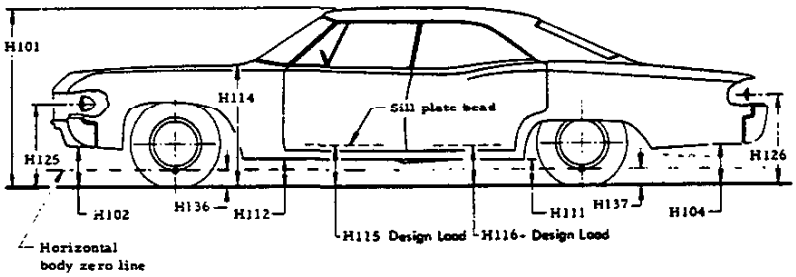


WIDTHS

W101	Tread - front	1568 (61.8)		1578 (62.2)
W102	Tread - rear	1542 (60.8)		1628 (64.1)
W103	Maximum overall width of car	1930 (76.0)		2010 (79.1)
W106	Front fender overall width	1930 (76.0)		2010 (79.1)
W107	Rear fender overall width	1930 (76.0)		2010 (79.1)
W116	Maximum overall width of body	1930 (76.0)		2010 (79.1)
W117	Body width at SgRP - front	1916 (75.4)		1916 (75.4)
W120	Overall car width, front doors open	3442 (135.5)	4101 (161.5)	3442 (135.5)
W121	Overall car width, rear doors open	2917 (114.9)	--	2915 (114.8)

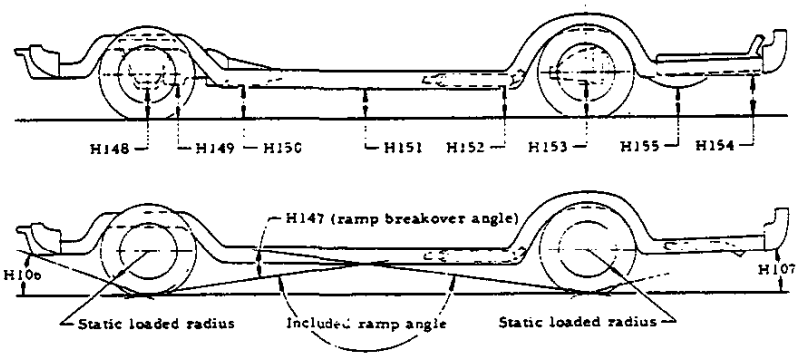
*Primary Dimensions are millimetres unless otherwise shown.

EXTERIOR DIMENSIONS



HEIGHTS

CODE	DESCRIPTION	SEDANS	COUPES	STATION WAGONS
H101	Overall height (design)	1422 (56.0)	1406 (55.3)	1473 (58.0)
H102	Front bumper to ground	305 (12.0)		
H104	Rear bumper to ground	334 (13.1)		294 (11.6)
H111	Rocker panel to ground - rear	229 (9.0)		240 (9.4)
H112	Rocker panel to ground - front	229 (9.0)		234 (9.2)
H114	Hood at rear to ground	996 (39.2)		1002 (39.4)
H115	Step height - fron (design)	359 (14.2)	357 (14.1)	365 (14.4)
H116	Step height - rear (design)	359 (14.2)	--	368 (14.5)
H125	Headlamp to ground	663 (26.1)		
H126	Tail lamp to ground	685 (27.0)		702 (27.6)
H136	Body O line to ground - front	-198 (- 7.8)		- 195 (-7.7)
H137	Body O line to ground - rear	-181 (- 7.1)		- 169 (-6.6)

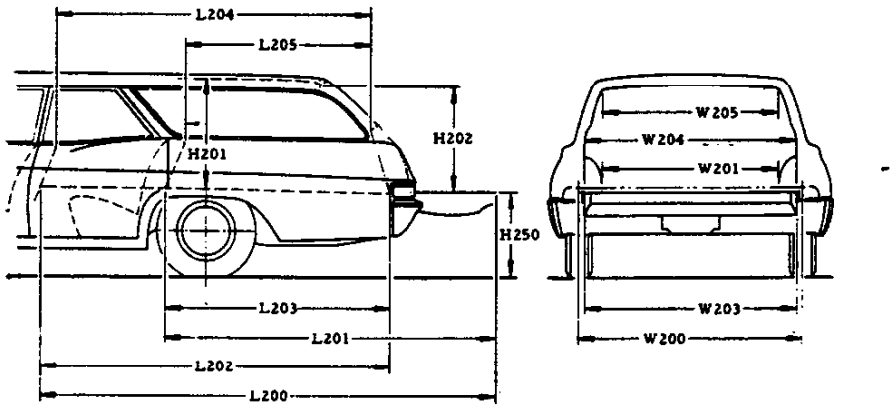


CLEARANCES

H106	Angle of approach (degrees)	16.92°		16.96°
H107	Angle of departure (degrees)	14.51°		11.81°
H147	Ramp breakover angle (degrees)	16.95°		17.61°
H148	Front suspension to ground	147 (5.8)		150 (5.9)
H149	Oil pan to ground	173 (6.8)		172 (6.7)
H150	Flywheel housing to ground	181 (7.1)		171 (6.6)
H151	Frame to ground	179 (7.0)		187 (7.4)
H152	Exhaust system to ground	175 (6.9)		187 (7.4)
H153	Rear axle to ground	178 (7.0)	177 (7.0)	191 (7.5)
H154	Fuel tank to ground	249 (9.8)		204 (8.0)
H155	Tire well to ground	--		228 (9.0)
H156	Minimum ground clearance	147 (5.8) (a)		150 (5.9)

(a) Front suspension to ground.

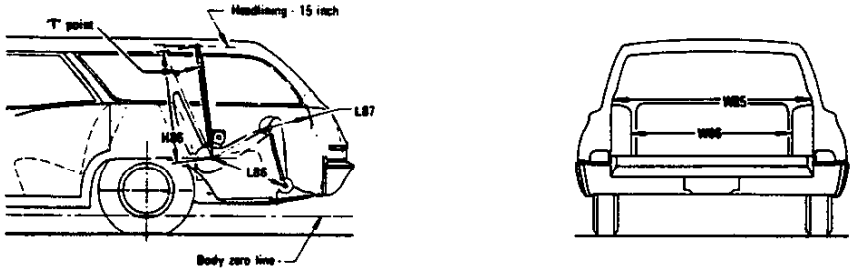
* Primary Dimensions are millimetres unless otherwise shown.



STATION WAGON CARGO SPACE

CODE	DESCRIPTION	1BL35	1BN35
H201	Maximum cargo height	763 (30.0 in.)	757 (29.8 in.)
H202	Rear opening height	729 (28.7 in.)	
H250	Tailgate to ground height	741 (29.2 in.)	
W200	Cargo width-front	1548 (60.9 in.)	
W201	Cargo width-wheelhouse	1224 (48.2 in.)	
W203	Rear opening width at floor	1238 (48.7 in.)	
W204	Rear opening width at belt	1224 (48.2 in.)	
W205	Rear opening width above belt	988 (38.9 in.)	
L200	Maximum cargo length-front seat	2790 (109.8 in.)	
L201	Maximum cargo length-second seat	1907 (75.1 in.)	
L202	Cargo length at floor-front seat	2290 (90.2 in.)	
L203	Cargo length at floor-second seat	1407 (55.4 in.)	
L204	Cargo length at belt-front seat	2128 (83.8 in.)	
L205	Cargo length at belt-second seat	1222 (48.1 in.)	
V2	Total cargo index volume (cu.ft.)	2510 (88.6 cu.ft.)	2490 (87.9 cu.ft.)

Volume underfloor storage compartment — 2-Seat Wagons 226.71 (8.0 Cu.Ft.)
3-Seat Wagons 127.53 (4.5 Cu.Ft.)



STATION WAGON THIRD SEAT

W85	Shoulder room	1240 (48.8 in.)	
W86	Hip room	1109 (43.7 in.)	
H86	Effective headroom	952 (37.5 in.)	946 (37.2 in.)
L86	Effective leg room	782 (30.8 in.)	
L87	Knee room	317 (12.5 in.)	

* Primary Dimensions are millimetres unless otherwise shown.

VEHICLE WEIGHTS

MODEL TYPE

MODEL DESIGNATION	BASE ENGINE	VEHICLE TYPE	SHIPPING WEIGHT			CURB WEIGHT		
			Front	Rear	Total	Front	Rear	Total
1BL47	250 Cu.In. L6 (L22)	2-Door Sport Coupe	899 kg (1982-lb.)	682 kg (1503-lb.)	1581 kg (3485-lb.)	890 kg (1962-lb.)	741 kg (1634-lb.)	1631 kg (3596-lb.)
1BL69	250 Cu.In. L6 (L22)	4-Door Sedan	904 kg (1993-lb.)	684 kg (1508-lb.)	1588 kg (3501-lb.)	895 kg (1973-lb.)	743 kg (1638-lb.)	1638 kg (3611-lb.)
1BL35	305 Cu.In. V8 (LG3)	4-Door Station Wgn.	922 kg (2033-lb.)	891 kg (1964-lb.)	1813 kg (3997-lb.)	911 kg (2008-lb.)	956 kg (2108-lb.)	1867 kg (4116-lb.)
1BN47	250 Cu.In. L6 (L22)	2-Door Sport Coupe	909 kg (2004-lb.)	691 kg (1523-lb.)	1600 kg (3527-lb.)	900 kg (1984-lb.)	750 kg (1653-lb.)	1650 kg (3637-lb.)
1BN69	250 Cu.In. L6 (L22)	4-Door Sedan	918 kb (2024-lb.)	693 kg (1528-lb.)	1611 kg (3552-lb.)	909 kg (2004-lb.)	752 kg (1658-lb.)	1661 kg (3662-lb.)
1BN35	305 Cu.In. V8 (LG3)	4-Door Station Wgn.	932 kg (2055-lb.)	901 kg (1986-lb.)	1833 kg (4041-lb.)	920 kg (2028-lb.)	966 kg (2130-lb.)	1886 kg (4158-lb.)

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.

OPTIONAL EQUIPMENT

RPO	OPTION	WITH	WEIGHT METRIC (kg) – ENGLISH
AU3	Electric Door Locks	2-Door Models	2.0 (4 lb.)
		4-Door Models	3.2 (7 lb.)
A31	Power Windows	2-Door Models 1BL, 1BN47	3.4 (7.5 lb.)
		4-Door Models 1BL, 1BN35, 69	9.0 (20 lb.)
AG9	Power Seat		8.6 (19 lb.)
B37	Front and Rear Floor Mats		3.4 (7.5 lb.)
C09	Vinyl Roof Cover (Padded Vinyl)	All except Station Wagons	2.4 (5 lb.)
C60	Air Conditioning 4-Season	With L6 Engine	31.0 (68 lb.)
		With V8 Engine	36.8 (81 lb.)
C61	Air Conditioning Comfortron	With L6 Engine	32.4 (71 lb.)
		With V8 Engine	38.2 (84 lb.)
F41	Suspension, Heavy Duty, Front and Rear		14.2 (31 lb.)
P01	Wheel Trim Covers	1BL00 Models	1.6 (4.0 lb.)
UA1	Heavy Duty Battery	With L6 Engine	6.8 (15 lb.)
		With V8 Engine	4.6 (10 lb.)
U63	Radio AM Pushbutton		3.4 (7.5 lb.)
U69	Radio AM/FM Pushbutton		3.8 (8 lb.)
U58	Radio AM/FM Stereo		6.6 (14.5 lb.)
UM1	Radio AM Pushbutton and Tape		6.8 (15 lb.)
UM2	Radio AM/FM Pushbutton and Tape		7.0 (15 lb.)
UN3	Radio AM/FM Stereo With Cassette Player		6.8 (15 lb.)
UP5	Radio AM/FM Monaural With Citizens Band Transceiver		4.4 (9.5 lb.)
UP6	Radio AM/FM Stereo With Citizens Band Transceiver		5.2 (11.5 lb.)
UY8	Radio AM/FM Stereo With Clock and Digital Display		6.4 (14 lb.)
VE5	Bumper Impact Strip, PVS Front and Rear	Sedans & Coupes	1.0 (2 lb.)
		Station Wagons	1.6 (3.5 lb.)
V30	Bumper Guards Front and Rear	Sedans & Coupes	4.2 (9 lb.)
		Station Wagons	3.4 (7.5 lb.)
V55	Roof Luggage Carrier	Station Wagons	9.4 (21 lb.)
LG3	305 Cu.In. V8 Engine	Sedans & Coupes	50.4 (111 lb.)
LM1	350 Cu.In. V8 Engine	Sedans & Coupes	56.4 (124 lb.)
		Station Wagons	5.8 (13 lb.)

* Primary Dimensions are kilograms.

FRAME AND FRONT SUSPENSION

FRAME

Description . . . . . All-welded perimeter frames with front crossmember for all models: rear axle upper control arm crossmember for sedans and coupes; center crossmember for wagons. Tubular trans.

Construction . . . . . All box section front and rear end assemblies. Open channel center rails for crossmember sedans and coupes, box section for wagons. Open channel kickup for wagons, box section for sedans and coupes. Front crossmember rear braces for all models, front braces for wagons.

Body Mounting . . . . . 8 each side of frame - 14 double cushion and 2 single cushion.

FRONT SUSPENSION

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

Wheel travel (design)

Total	198.1 mm (7.80 in.)
Jounce	90.4 mm (3.56 in.)
Rebound	107.7 mm (4.24 in.)

Wheel to spring, travel ratio 2.06:1

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	31.7 mm (1.25 in.)
Outer bearing	21.4 (.844)

Spindle thread size . . . . 3/4 - 20UNEF-3A (modified)

Wheel bearing

Type	Taper roller
Number	Two per spindle

SPHERICAL JOINTS

Type . . . . . Ball studs, upper self-adjusting for wear, lower has a wear indicator

Bearing surfaces

Upper	Two bearings; upper surface teflon coated phenolic; lower surface teflon cotton composition
Lower	One bearing; steel

SHOCK ABSORBERS

Type	Direct, double-acting, hydraulic
Piston diameter	27.0 mm (1.06 in.)

STABILIZER BAR

Type	Link
Material	HR steel
Diameter	
Sedan & Coupe	26 (1.0)
RPO F41	29 (1.14)
Station Wagon	28 (1.1)

FRONT WHEEL ALIGNMENT (Curb)

Camber (degrees)	+0.8 ± 0.8
Caster (degrees)	3.0 ± 1.0
Toe-in (total)	0.12 ± 0.12
Steering axis inclination (degrees)	9.785 @ 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

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 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. SHEET METAL PRIMER 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 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 applied 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 two tones, the body and sheet metal parts are baked for approximately 10 minutes at 200 degrees F.

8. FINAL BAKING. To assure a durable, hard, high luster finish the lacquer is baked for 30 minutes at 325 degrees F. Reheating the lacquer permits paint film to soften, allowing surface blemishes to disappear during the thermo-reflow process.

9. 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.

10. 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.

*Plants employing the Elpo Process (see Monza for description) preclude head for these priming steps.

STEERING, DRIVELINE, WHEELS AND TIRES

STEERING
- Wheel
  - Type . . . . . Round with center shroud
  - Diameter . . . . . 387.3 mm (15.25 in.)
  - Optional . . . . . Tilt steering shaft universally jointed at base of steering wheel; 6 positions; 5 inch vertical travel range.
- 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
    - Sedans and Coupes 14.0:1
    - Station Wagons . . . . . 16.0:1 on center
  - Ratios, Overall
    - Sedans and Coupes 16.45:1
    - Station Wagons . . . . . 18.8:1 on center
- Number of Turns, Lock to Lock
  - Sedans and Coupes 3.16
  - Station Wagons 3.30
- Linkage . . . . . Parallelogram, front of wheels, 2 tie rods
- Turning Diameter - Outside Front - m (ft.)
  - Wall to Wall
    - Sedans and Coupes 13.58 (44.55)
    - Station Wagons 13.75 (45.11)
  - Curb to Curb
    - Sedans and Coupes 11.83 (38.81)
    - Station Wagons 12.08 (39.63)
  - Outside wheel angle with inside wheel @ 20°
    - Sedans and Coupes . . . . . 19.60°
    - Station Wagons . . . . . 19.286°

DRIVELINE
- Type . . . . . Straight tube
- Number Used . . . . . One
- Diameter (O.D.) – mm (in.)
  - 7.50" Ring Gear 69.9 (2.75)
  - 8.50 & 8.75" Ring Gear 76.2 (3.0)
- Length – mm (in.)
  - 7.50" Ring Gear 1489 (58.63)
  - 8.50 & 8.75" Ring Gear 1464 (57.65)
- Wall Thickness – mm (in.) 1.65 (0.65)
- Universal Joints
  - Type . . . . . Single Cardan
  - Number Used . . . . . Two
  - Bearings . . . . . Prepack anti-friction

WHEELS
- Type . . . . . Steel, short spoke disc
- Size - Sedans & Coupes
  - Millimetres . . . . . 381 x 152.4
  - Inches . . . . . 15 x 6.0
- Station Wagons
  - Millimetres . . . . . 381 x 177.8
  - Inches . . . . . 15 x 7.0
- Offset - mm (in.)
  - Sedans and Coupes 12.7 (0.50)
  - Station Wagons 7.62 (0.30)
- Attachment to Hub
  - Type . . . . . 5 hex nuts
  - Thread size . . . . . 1/2-20 UNF 2B
  - Bolt Circle Diameter - mm (in.)
    - Sedans and Coupes 120.65 (4.75)
    - Station Wagons 127.0 (5.0)

TIRES, STANDARD EQUIPMENT
- Sedans and Coupes
  - Type - 4.1 Litre L6 . . . . . Glass belted radial
    - 5.0 and 5.7 Litre V8 . . . Steel belted radial
  - Size FR78-15B
  - Sidewall
    - Base . . . . . Blackwall
    - Optional . . . . . White stripe
  - Static Loaded Radius
    - Millimetres 304.0
    - Inches 11.97
  - Loaded rev/km @ 72 kmh 484
  - Loaded rev/mi @ 45 mph 779
  - Capacity @ 165.48 kPa 580
  - Capacity @ 24 PSI 1280
- Station Wagons
  - Type . . . . . Steel belted radial
  - Size HR78-15B
  - Sidewall
    - Base . . . . . Blackwall
    - Optional . . . . . White stripe
  - Static Loaded Radius
    - Millimetres 315.0
    - Inches 12.42
  - Loaded rev/km @ 72 kmh 462
  - Loaded rev/mi @ 45 mph 744
  - Capacity @ 165.48 kPa 685
  - Capacity @ 24 PSI 1510

TIRES OPTIONAL EQUIPMENT
- Sedans & Coupes – L6 Engine
  - Size FR78-15B
  - Type . . . . . Steel belted radial
  - Sidewall
    - Base . . . . . Blackwall
    - Optional . . . . . White stripe
- Sedans & Coupes – L6 & V8 Engines
  - Size GR78-15B
  - Type . . . . . Steel belted radial
  - Sidewall
    - Base . . . . . Blackwall
    - Optional . . . . . White stripe
  - Size GR70-15B
  - Sidewall . . . . . White stripe

SPARE TIRE
- Type . . . . . Same as ground tires

EXTERIOR COLOR – VINYL ROOF COMBINATIONS

VINYL TOP COVER	EXTERIOR COLOR AVAILABILITY	
Silver Metallic	Silver (Met.)	15
	Black	19
	Dark Blue (Met.)	29
	Carmine (Met.)	77
	Dark Carmine (Met.)	79
Black	All Available Colors, except 69	
White	All Available Colors	
Light Blue Metallic	White	11
	Black	19
	Pastel Blue	21
	Light Blue (Met.)	22
	Dark Blue (Met.)	29
Medium Beige	White	11
	Black	19
	Beige	61
	Camel (Met.)	63
	Dark Brown (Met.)	69
Dark Carmine Metallic	Carmine (Met.)	77
	Dark Carmine (Met.)	79
Pastel Green	Pastel Green	40
	Medium Green (Met.)	44

REAR SPRING

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

REAR SPRING SPECIFICATIONS

Model Application	Part No.	Assy. Code	Cut-Off Length		Wire Dia.		Total Coils	Deflection Rate		HEIGHTS			
										Free		Working	
			mm	in.	mm	in.		N/mm	lbs./in.	mm	in.	mm @ N	in. @ lbs.
Sedan & Coupe	485714	WS	3106	122.3	13.84	.545	7.19	17.5	100	457.2	18.00	254 @ 3558	10 @ 800
	485715	WT	3183	125.3	13.94	.549	7.34	17.5	100	469.9	18.50	254 @ 3781	10 @ 850
	10003182	NHH	3277	129.0	14.07	.554	7.53	17.5	100	482.6	19.00	254 @ 4000	10 @ 900
	482057	NDB	3348	131.8	13.99	.551	7.68	17.5	100	495.3	19.50	254 @ 4225	10 @ 950
	482058	NDC	3490	137.4	14.17	.558	7.96	17.5	100	508.0	20.00	254 @ 4450	10 @ 1000
Station Wagon	547295	NFB	2586	101.8	15.47	.609	5.74	28.9	165	387.8	15.27	254 @ 3870	10 @ 870
	527777	NDN	2692	106.0	15.67	.617	5.93	28.9	165	398.0	15.67	254 @ 4159	10 @ 935
	527778	NDP	2817	110.9	15.87	.625	6.16	28.9	165	407.9	16.06	254 @ 4448	10 @ 1000
	527779	NDR	2931	115.4	16.10	.634	6.36	28.9	165	417.8	16.45	254 @ 4737	10 @ 1065

1979 CHEVROLET (1BA00)

REGULAR TWO-TONE COLOR COMBINATIONS (RPO D99)

REGULAR TWO-TONE EXTERIOR COLORS			
LOWER		UPPER	
Lt. Blue Met.	22L	White	11U
Dk. Blue Met.	29L	Lt. Blue Met.	22U
Pastel Green	40L	White	11U
Med. Green Met.	44L	Pastel Green	40U
Dk. Brown Met.	69L	Med. Beige	61U
Camel Met.	63L	Med. Beige	61U
Carmine Met.	77L	White	11U

1979 CHEVROLET (1BA00)

CUSTOM TWO-TONE COLOR COMBINATION (RPO D84)**

CUSTOM TWO-TONE EXTERIOR COLORS		BODY SIDE STRIPE COLORS (INCLUDED)		RPO B84 BODY SIDE MOLDING (IF ORDERED)	RPO VINYL TOP COLORS (IF ORDERED)	
BODY (U & L)	ACCENT	(M)				
Silver Met. WA 7022	15 Gray Met. WA 7054	16 Red /Gray Met.	WMH 4330 WMH 7054	Silver Met.	15Q Silver Met.	15T
Light Blue Met. WA4964	22 Med. Blue Met. WA 7001	85 Pastel Blue /Dk. Blue Met.	WMH 8180 WMH 8181	Lt. Blue Met.	22Q Lt. Blue Met.	22T
Pastel Green WA 8028	40 Med. Green Met. WA 8029	44 Gold Met. /Dk. Green Met.	WMH 4831 WMH 8182	Pastel Green	40Q Pastel Green	40T
Med. Beige WA 8030	61 Camel Met. WA 8032	63 Gold Met. /Dk. Orange Met.	WMH 4831 WMH 8183	Med. Beige	61Q Med. Beige	61T
Dk. Carmine Met. WA 7072	79 Carmine Met. WA 7029	77 Red /Black	WMH 4330 WMH 848	Dk. Carmine Met.	79Q Dk. Carmine Met.	79T
Black WA 848	19 Gray Met. WA 7054	16 Red /Black	WMH 4330 WMH 848	Silver Met.	15Q Black	19T
Black WA 848	19 Silver Met. WA 7022	15 Red /Black	WMH 4330 WMH 848	Silver Met.	15Q Black	19T
Dk. Blue Met. WA 8027	29 Silver Met. WA 7022	15 Pastel Blue /Dk. Blue Met.	WMH 8180 WMH 8181	Silver Met.	15Q None Available	
Dk. Carmine Met. WA 7072	79 Silver Met. WA 7022	15 Red /Black	WMH 4330 WMH 848	Silver Met.	15Q Dk. Carmine Met.	79T

** These are the only combinations available -- NO COLOR OVERRIDES ARE ALLOWED!

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 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. SHEET METAL PRIMER 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 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 applied 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 two tones, the body and sheet metal parts are baked for approximately 10 minutes at 200 degrees F.

8. FINAL BAKING. To assure a durable, hard, high luster finish the lacquer is baked for 30 minutes at 325 degrees F. Reheating the lacquer permits paint film to soften, allowing surface blemishes to disappear during the thermo-reflow process.

9. 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.

10. 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.

*Plants employing the Elpo Process (see Monza for description) preclude head for these priming steps.

GENERAL

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

DOORS AND LOCKS

Door construction . . . . . Double steel panels, with side guard beam. Doors hinged at front.

Door handles . . . . . Pull-type exterior. Free-wheeling inside door handles on all doors.

Front door glass . . . . . Full ventless windows on all models.

HOOD AND TRUNK LID

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

Hood release . . . . . Internal; to left of steering column under instrument panel.

VENTILATION

High level air intake for passenger compartment . . . . . with double wall plenum chamber. Astro Ventilation with instrument panel outlets standard on all.

Flow through ventilation . . . . . Air enters cowl plenum thru concealed cowl high air intake and passes into the passenger compartment thru two upper level vents in the instrument panel and a lower vent below the panel. To assure constant flow, the heater blower moves air thru the lower vent whenever the ignition is on and the engine coolant is 95°F or higher. To exit, air passes under the rear seat cushion into the trunk, and rear quarters to baffle type outlets on door lock pillars.

SEAT CONSTRUCTION

Type

All seat cushions and backrests . . Formed polyfoam

WINDSHIELD WIPERS AND WASHERS

Type . . . . . Concealed dual 2-speed electric with 18" blades.

Linkage . . . . . Parallel action with articulated left arm.

HEADLIGHTS . . . . . Dual, rectangular lamps all models.

SPARE TIRE AND TOOLS

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

STATION WAGON REAR WINDOW & TAILGATE

Operation . . . . . Three way tailgate design with exterior handle. Power tailgate glass standard. Can be used as a door with glass up. When used as a gate, glass must first be lowered

Stowage compartment . . . . . A new lockable stowage compartment, located in the rearmost part of the left quarter panel, is base equipment for all station wagon models. This is made possible by the relocation of the fuel tank to a position underneath the underbody.

BODY GLASS VISIBILITY AREA

	MODELS		
	69	47	35
Windshield	8619 (1335.9 in.^{2})		
Front Door Window	5705 (884.3 in.^{2})	8759 (1357.6 in.^{2})	5705 (884.3 in.^{2})
Rear Door Window	6299 (976.3 in.^{2})	--	5531 (857.3 in.^{2})
Rear Quarter Window	--	2126 (329.5 in.^{2})	8712 (1350.4 in.^{2})
Rear Window	7525 (1166.4 in.^{2})	7564 (1172.4 in.^{2})	4661 (722.5 in.^{2})
Total Area (Sq. In.)	28148 (4362.9 in.^{2})	27068 (4195.4 in.^{2})	33228 (5150.4 in.^{2})

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

* Primary dimensions are square centimetres.

1979 CHEVROLET 'B' INTERIOR COLOR COMBINATIONS

MODELS	Seat Type	INTERIOR TRIM											
		Black		Light Blue		Willow Green		Camel Tan		Carmine		Oyster	
		Vinyl	Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl	Cloth
Impala – 1BL00													
Sedan (69)	(A52) Bench	19N		24N	24B		44B	62N	62B	74N	74B		
Sedan (69)	(AT8) 50-50			24N	24B			62N	62B	74N	74B		
Custom Coupe (47)	(A52) Bench	19N		24N	24B		44B	62N	62B	74N	74B		
Custom Coupe (47)	(AT8) 50-50			24N	24B			62N	62B	74N	74B		
Station Wagon (35)	(A52) Bench			24N				62N	62C	74N	74C		
Station Wagon (35)	(AT87) 50-50			24N				62N		74N			
Caprice Classic – 1BN00													
Sedan (69)	(A52) Bench		19D	24V	24D		44D	62V	62D	74V	74D	12V	
Sedan (69)	(AT8) 50-50		19D	24V	24D			62V	62D	74V	74D	12V	
Sport Coupe (47)	(A52) Bench		19D	24V	24D		44D	62V	62D	74V	74D	12V	
Sport Coupe (47)	(AT8) 50-50		19D	24V	24D			62V	62D	74V	74D	12V	
Station Wagon (35)	(A52) Bench	19V		24V	24D	44V	44D	62V	62D	74V			
Station Wagon (35)	(AT8) 50-50			24V	24D			62V	62D	74V			
Caprice Luxury Interior – 1BN00													
Sedan (69)	(AT8) 50-50				24E				62E		74E		12E
Coupe (47)	(AT8) 50-50				24E				62E		74E		12E

CLOTH & VINYL USAGE

N–Derma vinyl
B–Windsor, 712 WC, knit cloth
C–Belaya, 907 WC, plaid cloth
V–Sierra vinyl
E–Lombardy, 347 WC, velour cloth
D–Bedford, 915 WC, knit corduroy cloth; Cloud bolster

CHASSIS

1979 CHEVROLET (1BA00)
BODY SIDE ACCENT STRIPE (RPO D85)
BODY SIDE MOLDING EQUIPMENT (RPO B84)

RPO D85 – BODY SIDE ACCENT STRIPE*

STRIPE IDENTIFICATION (DECAL)		
11A	White	WMH 3967
13A	Silver	WMH 4575
19A	Black	WMH 848
27A	Blue	WMH 4673
49A	Green	WMH 8202
54A	Gold	WMH 4831
75A	Red	WMH 4330

RPO B84 – BODY SIDE MOLDING EQUIPMENT*

MOLDING IDENTIFICATION		
15Q	Silver Met.	WPV 7022
22Q	Lt. Blue Met.	WPV 4964
40Q	Pastel Green	WPV 8028
61Q	Med. Beige	WPV 8030
79Q	Dk. Carmine Met.	WPV 7072
99Q**		

**When RPO Wood Grain is specified on 1BN35, the molding matches NMH 562, Natural Oak.

NOTE: *For color combination application, see Dealer Order Guide.

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 SPRINGS SPECIFICATIONS

Model Application	Part No.	Assy. Code	Cut-Off Length		Wire Dia.		Total Coils	Deflection Rate		Heights			
										Free		Working	
			mm	in.	mm	in.		N/mm	lbs./in.	mm	in.	mm @ N	in. @ lbs.
Sedan & Coupe	370975	ARF	3070.1	120.8	15.8	0.62	8.1	52.5	300	439.0	17.28	300 @ 7300	11.81 @ 1640
	370976	ARH	3070.9	120.9	15.8	0.62	8.1	52.5	300	444.2	17.49	300 @ 7570	11.81 @ 1700
	370977	ARJ	3306.1	130.2	16.2	0.64	8.7	52.5	300	449.1	17.68	300 @ 7830	11.81 @ 1760
	370978	ARK	3306.9	130.2	16.2	0.64	8.7	52.5	300	454.3	17.89	300 @ 8100	11.81 @ 1820
	370979	ARM	3431.0	135.1	16.4	0.65	9.01	52.5	300	459.4	18.09	300 @ 8370	11.81 @ 1880
	370980	ARN	3431.8	135.1	16.4	0.65	9.01	52.5	300	464.3	18.38	300 @ 8630	11.81 @ 1940
	370981	ARR	3560.0	140.2	16.6	0.65	9.34	52.5	300	469.5	18.48	300 @ 8900	11.81 @ 2000
	370982	ARS	3560.8	140.2	16.6	0.65	9.34	52.5	300	474.6	18.68	300 @ 9170	11.81 @ 2060
Station Wagon	462549	AXR	2837.0	111.7	16.2	0.64	7.45	64	365	415.8	16.37	300 @ 7410	11.81 @ 1665
	378538	APK	3042.6	119.8	16.6	0.65	7.98	64	365	421.1	16.58	300 @ 7740	11.81 @ 1740
	378539	APM	3043.5	119.8	16.6	0.65	7.98	64	365	426.2	16.78	300 @ 8070	11.81 @ 1815
	370994	ASH	3142.2	123.7	16.8	0.66	8.23	64	365	431.4	16.98	300 @ 8410	11.81 @ 1890
	370995	ASJ	3143.0	123.7	16.8	0.66	8.23	64	365	436.5	17.18	300 @ 8740	11.81 @ 1965
	370996	ASK	3369.8	132.7	17.2	0.68	8.8	64	365	441.8	17.39	300 @ 9080	11.81 @ 2040

REAR AXLE

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

Drive pinion to ring gear offset - mm (in.)

7.50" Ring Gear 38.1 (1.50)

8.50 & 8.75" Ring Gear 44.5 (1.75)

Hypoid gear PD (See Power Train Section, page 2, for application)

2.41 . . . . . 190.5 mm (7.50 in.)

2.41, 2.56, 2.73, 3.08 . . . . . 215.9 mm (8.50 in.)

2.56, 3.08 . . . . . 222.2 mm (8.75 in.)

Pinion bearing adjustment . . . . . Shim

Lubricant

Type . . . . . GL-5 Gear Lubricant

Viscosity 80W-90

Capacity – litres (pints)

7.50 Hypoid gear P.D. 1.5 (3.25)

8.50 & 8.75 Hypoid Gear P.D. 1.9 (4.0)

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

7.50 Ring gear diameter

2.41 41,17

8.50 Ring gear diameter

2.41 41,17

2.56 41,16

2.73 41,15

3.08 40,13

RING AND PINION GEAR TOOTH COMBINATIONS

8.75 Ring gear diameter

2.56 . . . . . 41.16

3.08 40,13

LIMITED SLIP DIFFERENTIAL (See Power Trains)

Type . . . . . Two pinion with multiple disc clutch

REAR SUSPENSION, REGULAR PRODUCTION

Description . . . . . Four-link type. Two upper control arms bias mounted and two lower control arms parallel mounted.

Wheel Travel (design)

Total

Sedans and Coupes . . . . . 239.0 mm (9.41 in.)

Station Wagons . . . . . 213.1 mm (8.39 in.)

Jounce

Sedans and Coupes . . . . . 122.7 mm (4.83 in.)

Station Wagons . . . . . 101.1 mm (3.98 in.)

Rebound

Sedans and Coupes . . . . . 116.3 mm (4.58 in.)

Station Wagons . . . . . 112.0 mm (4.41 in.)

Wheel to spring travel ratio 1.01:1

SHOCK ABSORBERS

Type . . . . . Direct double acting, hydraulic

Piston diameter . . . . . 27.0 mm (1.06 in.)

BULBS AND LAMPS

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Ash tray lamp	1-1445	.7
Back-up	2-1156	32
Brake warning	1-168	3
Clock Illumination	1-168	3
Courtesy		
Instrument panel	2-631	6
Direction signal indicator	2-168	3
Dome	1-561	12
Dome reading lamp		
Reading	2-1004	15
Dome	1-211-2	12
End gate door indicator	1-194	2
Generator indicator	1-168	3
Glove compartment	1-1891	2
Headlamp hi-beam indicator	1-168	3
Headlamp Outer	2-4652	High beam 37.5W Low beam 40.0W
Inner	2-4651	High beam 50.0W
Heater or A/C controls	1-194	3
Instrument cluster	3-168	3
	2-194	2
License plate, rear	1-194	2
Luggage compartment	1-1003	15
Oil pressure indicator	1-168	3
Parking		
Park	2-1157NA	2.2
Turn		24
Seat belt warning	1-168	3
Side Marker - Front	2-194	2
Side Marker - Rear	2-194	2
Radio dial RPO U63 and/or U69	1-1893	2
Radio dial and indicator	1-1893 (dial)	1-dial
RPO U58	1-DS410 (indicator)	Led (a)
Radio dial and indicator	1-1893 (dial)	2
RPO UM1 and/or UM2	1-DS410 (indicator)	Led (a)
Tail, stop and turn	1157*	Tail, 3; stop & turn, 32
Temperature indicator	1-168	3
Underhood	1-93	15
W/S washer & light switch indicator	1-161	1

*–Station wagons 2; balance 4.
(a) Light emitting diode.

				Sedans and Coupes	Station Wagons
General	Type			Power assisted disc front and drum rear	
	System			Dual circuit hydraulic system with warning light and self-adjusting features; metering and proportioning valve (except Station Wagons) provide balance between front and rear brakes	
Front Brakes	Type			Disc – single piston floating caliper	
	Material			Cast iron – vented	
	Diameter and width – mm (in.)			279 x 26.2 (11.0 x 1.03)	301.2 x 26.2 (11.86 x 1.03)
	Lining material			Molded asbestos composition	
	Method of attachment			Riveted	
	Lining size (length x width x thickness)	Inboard – mm (in.)		137.2 x 48.8 x 11.81 (5.40 x 1.92 x 0.465)	
		Outboard – mm (in.)		137.2 x 48.8 x 11.81 (5.40 x 1.92 x 0.465)	
	Lining area – cm^2 ($in.^2$)			267.5 (41.47)	
	Eff. Area – cm^2 ($in.^2$)			237.4 (36.8)	
	Swept Area – cm^2 ($in.^2$)			1356.9 (210.37)	1521.8 (235.94)
	Piston diameter – mm (in.)			74.7 (2.94)	
Rear Brakes	Type			Finned drum – composite, web cast into rim	
	Material			*Molded asbestos composition*	
	Dia. and width – mm (in.)			241.3 x 50.8 (9.5 x 2.0)	279.4 x 50.8 (11.0 x 2.0)
	Lining material			Molded asbestos composition	
	Method of attachment			Riveted	
	Lining Size (length x width x thickness)	Primary	mm	192.5 x 50.8 x 5.0	225.0 x 50.8 x 5.6
			in.	7.58 x 2.0 x 0.196	8.86 x 2.0 x 0.22
		Secondary	mm	249.7 x 50.8 x 6.73	291.3 x 50.8 x 6.6
			in.	9.83 x 2.0 x 0.265	11.47 x 2.0 x 0.26
	Lining area – cm^2 ($in.^2$)			449.2 (69.64)	524.5 (81.32)
	Eff. Area – cm^2 ($in.^2$)			411.0 (63.72)	479.7 (74.37)
	Swept Area – cm^2 ($in.^2$)			748.6 (116.06)	891.4 (138.20)
	Piston diameter – mm (in.)			22.2 (0.875)	23.81 (0.9375)
Apply System	Master cylinder dia. – mm (in.)			28.6 (1.125)	
	Piston travel – mm (in.)			35.8 (1.41)	
	Pedal travel – mm (in.)			39.6 (1.56)	
	Pedal ratio			3.50:1	
	Line pressure @ 100 lb. pedal load	kPa			
		PSI			
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 below instrument panel to left of steering column.	
	Total effective area – cm^2 ($in.^2$)			411.0 (63.72)	479.7 (74.37)

BULBS AND LAMPS

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Ash tray lamp	1-1445	.7
Back-up	2-1156	32
Brake warning	1-168	3
Clock Illumination	1-168	3
Courtesy		
Instrument panel	2-631	6
Direction signal indicator	2-168	3
Dome	1-561	12
Dome reading lamp		
Reading	2-1004	15
Dome	1-211-2	12
End gate door indicator	1-194	2
Generator indicator	1-168	3
Glove compartment	1-1891	2
Headlamp hi-beam indicator	1-168	3
Headlamp Outer	2-4652	High beam 37.5W Low beam 40.0W
Inner	2-4651	High beam 50.0W
Heater or A/C controls	1-194	3
Instrument cluster	3-168	3
	2-194	2
License plate, rear	1-194	2
Luggage compartment	1-1003	15
Oil pressure indicator	1-168	3
Parking		
Park	2-1157NA	2.2
Turn		24
Seat belt warning	1-168	3
Side Marker - Front	2-194	2
Side Marker - Rear	2-194	2
Radio dial RPO U63 and/or U69	1-1893	2
Radio dial and indicator	1-1893 (dial)	1-dial
RPO U58	1-DS410 (indicator)	Led (a)
Radio dial and indicator	1-1893 (dial)	2
RPO UM1 and/or UM2	1-DS410 (indicator)	Led (a)
Tail, stop and turn	1157*	Tail, 3; stop & turn, 32
Temperature indicator	1-168	3
Underhood	1-93	15
W/S washer & light switch indicator	1-161	1

*–Station wagons 2; balance 4.
(a) Light emitting diode.

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT*
Air conditioning	50 amp CB	Fuse panel
	25 amp fuse	Fuse panel (h)
Antenna, power	20 amp fuse	Fuse panel (c)
Back-up lamps	20 amp fuse	Fuse panel (e)
Brake alarm lamp	20 amp fuse	Fuse panel (b)
Choke pull-out solenoid	10 amp fuse	Fuse panel (g)
Cigarette lighter	20 amp fuse	Fuse panel (c)
Cigarette lighter lamp	5 amp fuse	Fuse panel (a)
Clock	20 amp fuse	Fuse panel (c)
Clock illumination	5 amp fuse	Fuse panel (a)
Courtesy lamps	20 amp fuse	Fuse panel (c)
Defogger, rear window	20 amp fuse	Fuse panel (c)
Defogger, rear window	60 amp CB	Fuse panel
Defogger, electric rear	20 amp fuse	Fuse panel (b)
Direction signal indicator lamps	20 amp fuse	Fuse panel (b)
Dome lamp	20 amp fuse	Fuse panel (c)
Dome & reading lamp	20 amp fuse	Fuse panel (c)
Door unlock indicator	25 amp fuse	Fuse panel (i)
Tail gate ajar lamp	20 amp fuse	Fuse panel (c)
Fuel gauge	20 amp fuse	Fuse panel (b)
Generator indicator lamp	20 amp fuse	Fuse panel (b)
Glove compartment lamp	20 amp fuse	Fuse panel (c)
Headlamps	Circuit breaker	Light switch
Headlamp buzzer	20 amp fuse	Fuse panel (b)
Headlamps hi-beam indicator lamp	Circuit breaker	Light switch
Heater	20 amp fuse	Fuse panel (d)
Heater control lamp	5 amp fuse	Fuse panel (a)
Instrument cluster lamps	5 amp fuse	Fuse panel (a)
Key wiring buzzer	20 amp fuse	Fuse panel (c)
License plate lamp, rear	20 amp fuse	Fuse panel (d)
Luggage compartment lamp	20 amp fuse	Fuse panel (c)
Oil pressure indicator lamp	20 amp fuse	Fuse panel (b)
Head light buzzer	20 amp fuse	Fuse panel (c)
Park and turn lamps - front	20 amp fuse	Fuse panel (d)
Power heat valve solenoid	10 amp fuse	Fuse panel (g)
Power seat	60 amp CB	Fuse panel
Power tailgate window	30 amp CB	Fuse panel
Power tailgate window relay	20 amp fuse	Fuse panel (b)
Power windows	70 amp CB	Firewall
Radio	10 amp fuse	Fuse panel
Radio lamp	5 amp fuse	Fuse panel (a)
Seat belt warning lamp	20 amp fuse	Fuse panel (b)
Seat belt warning buzzer	10 amp fuse	Fuse panel (c)
Side marker lamp - front	20 amp fuse	Fuse panel (e)
Side marker lamp - rear	20 amp fuse	Fuse panel (e)
Speed cruise control	20 amp fuse	Fuse panel (b)
Stop and turn lamps	20 amp fuse	Fuse panel (f)
Tail lamps	20 amp fuse	Fuse panel (h)
Temperature indicator lamp	20 amp fuse	Fuse panel (b)
Underhood lamp	20 amp fuse	Fuse panel (e)
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

POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	MODEL APPLICATION	AXLE RATIOS* ALL STATES BASE	AXLE RATIOS* ALL STATES OPTION	WITH ALT. RPO NA6	RING GEAR mm (in.)	LW. CLASS Kg (lbs.)
4.1 Litre L6 (250 Cu. In.) L22 Base – All States	3-Speed Automatic	Coupes & Sedans	2.56 2.73 (f)	–	–	216 (8.50)	1816 (4000)
5.0 Litre V8 (305 Cu. In.) LG3 Optional – All States (a)	3-Speed Automatic	Coupes & Sedans	2.41	–	–	191 (d) (7.50) (b)	1816 (4000)
		Station Wagons (c)	2.56	–	–	222 (8.75)	2041 (4500)
5.7 Litre V8 (350 Cu. In.) LM1 Optional (e)	3-Speed Automatic	Coupes & Sedans	2.41	3.08	3.08	191 (d) (7.50) (b)	1816 (4000)
		Station Wagons	2.56	3.08	3.08	222 (8.75)	2041 (4500)

* – Limited slip axles available optionally for all ratios; same ratios available with Air Conditioning.

(a) – Base engine exc. California for Station Wagons – optional other models listed.
(b) – 191 mm (7.50 in.) ring gear standard with 2.41 ratio rear axle; 216 mm (8.50 in.) optional. 216 mm (8.50 in.) ring gear standard with 3.08 ratio rear axle.
(c) – Not available in California or with Air Conditioning.
(d) – Ring gear for limited slip axle is 216 mm.
(e) – Base engine for Station Wagons in California, optional other 49 states.
(f) – California only.

MULTIPLICATION FACTORS

WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION	AXLE RATIO
4.1 Litre L6 Base – L22 (All Models except Station Wagons)	3-Speed Automatic	Drive	12.90:1 - 2.56:1	2.56
		Second	12.90:1 - 3.89:1	
		Low	12.90:1 - 6.45:1	
		Reverse	9.93:1 - 4.97:1	
4.1 Litre L6 Base – L22 (All Models except Station Wagons)	3-Speed Automatic	Drive	13.76:1 - 2.73:1	2.73
		Second	13.76:1 - 4.15:1	
		Low	13.76:1 - 6.88:1	
		Reverse	10.60:1 - 5.30:1	
5.0 Litre V8 Optional – LG3 (All Models except Station Wagons)	3-Speed Automatic	Drive	12.15:1 - 2.41:1	2.41
		Second	12.15:1 - 3.66:1	
		Low	12.15:1 - 6.07:1	
		Reverse	9.35:1 - 4.68:1	
		Drive	12.90:1 - 2.56:1	2.56
		Second	12.90:1 - 3.89:1	
		Low	12.90:1 - 6.45:1	
		Reverse	9.93:1 - 4.97:1	
5.7 Litre V8 Optional – LM1 (All models except Station Wagons)	3-Speed Automatic	Drive	12.15:1 - 2.41:1	2.41
		Second	12.15:1 - 3.78:1	
		Low	12.15:1 - 6.07:1	
		Reverse	9.35:1 - 4.68:1	
	3-Speed Automatic	Drive	15.52:1 - 3.08:1	3.08
		Second	15.52:1 - 4.68:1	
		Low	15.52:1 - 7.76:1	
		Reverse	11.88:1 - 5.94:1	
5.0 Litre V8 Base – LG3 (Station Wagons only)	3-Speed Automatic	Drive	12.90:1 - 2.56:1	2.56
		Second	12.90:1 - 3.89:1	
		Low	12.90:1 - 6.45:1	
		Reverse	9.93:1 - 4.97:1	
5.7 Litre V8 Optional – LM1 (Station Wagons only)	3-Speed Automatic	Drive	12.90:1 - 2.56:1	2.56
		Second	12.90:1 - 3.89:1	
		Low	12.90:1 - 6.45:1	
		Reverse	9.93:1 - 4.97:1	
		Drive	15.52:1 - 3.08:1	3.08
		Second	15.52:1 - 4.68:1	
		Low	15.52:1 - 7.76:1	
		Reverse	11.88:1 - 5.94:1	

ENGINE DATA AND RATINGS

GENERAL DATA

Engine Type			L-6 OHV	V-8 OHV	
Piston Displacement		Litres	4.1	5.0	5.7
		Cubic Inches	250	305	350
Availability			Std. (L22)	RPO LG3	RPO LM1
Number of Cylinders			Six	Eight	
Bore and Stroke		Millimetres	98.42 x 89.66	94.89 x 88.4	101.6 x 88.4
		Inches	3.875 x 3.53	3.736 x 3.48	4.00 x 3.48
Compression Ratio			8.0:1 (8.2:1)	8.4:1	8.2:1
Taxable (SAE)		Kilowatts	26.9	33.3	38.2
		Horsepower	36.0	44.7	51.2
Firing Order			1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Idling Speed		Automatic (In Drive)	550	500	
Compression Press. @ Cranking Speed, Engine Hot		Kilopascals	896	1103	
		Pounds/Sq. In.	130	160	
Power Plant Mounting			Two front and one rear		
Measurements	Length (b)	Millimetres	908.8	801.4	
		Inches	35.78	31.55	
	Height (c)	Millimetres	691.4	751.8	724.4
		Inches	27.22	29.60	28.52
	Width (d)	Millimetres	451.1	724.7	
		Inches	17.76	28.53	

Data in brackets ( ) applies to California.

(b) Fan clutch to rear of engine block.
(c) Top of air cleaner to bottom of oil pan.
(d) L-6 engine-oil filter to exhaust manifold; V8 engine-across exhaust manifolds.

ADVERTISED ENGINE RATING

Engine Designation			4.1 Litre – L-6 (250 Cu. In.)	5.0 Litre – V-8† (305 Cu. In.)	5.7 Litre – V-8 (350 Cu. In.)
Availability			Std. – L22	RPO LG3	RPO LM1
Carburetor			Single Bbl.	Two Bbl.	Four Bbl.
Net Brake – RPM	Federal	Kilowatts	86 @ 3800	97 @ 3200	127 @ 3800
		Horsepower	115 @ 3800	130 @ 3200	170 @ 3800
	California	Kilowatts	67 @ 3600	93 @ 3200	123 @ 3800
		Horsepower	90 @ 3600	125 @ 3200	165 @ 3800 (a)
Net Torque – RPM	Federal	Newton/Metre	271 @ 1600	332 @ 2000	366 @ 2400
		Pound/Foot	200 @ 1600	245 @ 2000	270 @ 2400
	California	Newton/Metre	237 @ 1600	319 @ 2000	352 @ 2400
		Pound/Foot	175 @ 1600	235 @ 2000	260 @ 2400 (a)

† – Base on Station Wagon models except California – 5.7 Litre V-8 base in California.

(a) Also Federal ratings above 4000 feet altitude.

4.1 LITRE L6 ENGINE (BASE – L22)

Model Availability			Coupes and Sedans	
Transmission			3-Speed Automatic	
Rear Axle Ratio			2.73:1	2.56
Tire Size			FR78-15B	
Crankshaft Revolutions per	Kilometre		1321.3	1239.0
	Mile		2126.7	1994.3
Crankshaft RPM @ 1 Kilometre/Hour and 1 Mile/Hour	Low	km/h	34.5	32.3
		m/h	89.3	83.7
	Second	km/h	20.8	19.5
		m/h	53.9	50.5
	Third	km/h	13.7	12.8
		m/h	35.4	33.2
	Reverse	km/h	26.5	24.7
		m/h	68.8	64.1
Piston Travel	Millimetre/Kilometre		777.3	728.9
	Foot/Mile		1251.2	1173.3

5.0 LITRE V8 ENGINE (RPO LG3)

Model Availability			Coupes and Sedans	Station Wagons
Transmission			3-Speed Automatic	
Rear Axle Ratio			2.41:1	2.56:1
Tire Size			FR78-15B	HR78-15B
Crankshaft Revolutions per	Kilometre		1166.4	1182.7
	Mile		1877.4	1904.6
Crankshaft RPM @ 1 Kilometre/Hour and 1 Mile/Hour	Low	km/h	30.5	30.7
		m/h	78.9	79.9
	Second	km/h	18.4	18.5
		m/h	47.6	48.2
	Third	km/h	12.1	12.2
		m/h	31.3	31.7
	Reverse	km/h	23.5	23.7
		m/h	60.7	61.5
Piston Travel	Millimetre/Kilometre		676.6	686.0
	Foot/Mile		1088.9	1104.7

5.7 LITRE V8 ENGINE (RPO LM1)

Model Availability			Coupes and Sedans		Station Wagons	
Transmission			3-Speed Automatic			
Rear Axle Ratio			2.41	3.08	2.56	3.08
Tire Size			FR78-15B		HR78-15B	
Crankshaft Revolutions per	Kilometre		1166.4	1490.7	1182.7	1423.0
	Mile		1877.4	2399.3	1904.6	2291.5
Crankshaft RPM @ 1 Kilometre/Hour and 1 Mile/Hour	Low	km/h	30.5	38.8	30.7	37.0
		m/h	78.9	100.8	79.9	96.3
	Second	km/h	18.4	23.4	18.5	22.3
		m/h	47.6	60.8	48.2	58.1
	Third	km/h	12.1	15.4	12.2	14.7
		m/h	31.3	40.0	31.7	38.2
	Reverse	km/h	23.5	29.7	23.7	28.4
		m/h	60.7	77.2	61.5	73.7
Piston Travel	Millimetre/Kilometre		676.6	864.7	686.0	825.4
	Foot/Mile		1088.9	1391.6	1104.7	1329.1

VEHICLE PERFORMANCE FACTORS

ENGINE	4.1 LITRE 250 CU. IN. 115 HP 86 kW	5.0 LITRE 305 CU. IN. 130 HP 97 kW	5.7 LITRE 350 CU. IN. 170 HP 127 kW
MODEL	1BL69	1BN69	1BN35

3-SPEED AUTOMATIC TRANSMISSION

Performance	Mass-Kilograms		1916	1989	2171
	Weight-Pounds		4224	4384	4785
Kilograms per Net Kilowatt		Federal	22.28	20.50	17.09
		California	28.60	21.39	17.65
Pounds per Net Horsepower		Federal	36.73	33.72	28.15
		California	46.93	35.07	29.00
Kilograms per Litre Displacement			467.3	397.8	380.9
Pounds per Cu. In. Displacement			16.9	14.4	13.7
Net kW/Litre Displacement		Federal	20.98	19.40	22.28
		California	16.34	18.60	21.58
Net HP/Cu. In. Displacement		Federal	.460	.426	.486
		California	.360	.410	.471
Power Displacement	Litre/kilometre		95.7	103.4	119.1
	Cu.Ft./mile		153.84	165.68	192.9
Displacement Factor	Litre/tonne kilometre		45.31	47.2	49.8
	Cu.Ft./ton mile		72.84	75.58	80.63

GLOSSARY
(English equivalent is bracketed)

Performance Weight (Mass)	Curb Weight (Mass) plus average weight of four passengers – 272.2 kg (600 lbs.)
Power Displacement	$\frac{\text{Crankshaft Revs/km (Revs/Mi) x Piston Displacement}}{\text{2 x 28.3 Cu. Litres (2 x 1728 cu. in.)}}$
Displacement Factor	$\frac{\text{Power Displacement}}{\text{Performance Weight (tons) Mass (tonne)}}$

CYLINDER BLOCK

Material . . . . . Cast alloy iron

Bore Diameter

Engine	Millimetres	Inches
4.1 Litre L6	98.4123-98.4885	3.8745-3.8775
5.0 Litre V8	94.8817-94.9579	3.7355-3.7385
5.7 Litre V8	101.5873-101.6635	3.9995-4.0025

Bore Spacing (C/L to C/L) . . . . . 111.76 mm (4.4 in.)

Bearing Caps (Number, material and attachment)

4.1 Litre L6 . . . . . 7, cast iron, 2-bolt

5.0 & 5.7 Litre V8 . . . . . 5, cast iron, 2-bolt

Water Jacket . . . . . Full length around each cylinder

CYLINDER HEAD

Material . . . . . High chrome cast alloy iron

Bolts, Number

4.1 Litre L6 14

5.0 & 5.7 Litre V8 34

Bolt, Dia.

4.1 Litre L6 . . . . . 12.7 mm (.50 in.)

5.0 & 5.7 Litre V8 . . . . . 11.112 mm (.4375 in.)

COMBUSTION CHAMBER VOLUME

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

Engine	Litres	Cu. In.
4.1 Litre L6	0.095	5.77
5.0 Litre V8	0.084	5.13
5.7 Litre V8	0.103	6.27

INLET MANIFOLD

Material

4.1 Litre L-6 . . . . . Cast iron

5.0 Litre V-8 . . . . . Cast iron

5.7 Litre V-8 exc. 1BN69 . . . . . Cast iron

Model 1BN69 – 49 states with A/C . . Aluminum

– California - all . . . . Aluminum

Type

4.1 Litre L-6 – 49 states . . . . . Separate design

– California - Integral with cylinder head

5.0 & 5.7 Litre V-8 . . . . . 8 port, double deck

EXHAUST MANIFOLD

Material . . . . . Cast alloy iron

Type

4.1 Litre L6 . . 4 port, underslung, center downtake

5.0 & 5.7 Litre V8 . . . . Dual, 4 port, rear downtake

Outlet Diameter

4.1 Litre L6 . . . . . 57.1 mm (2.25 in.)

5.0 & 5.7 Litre V8 . . . . . 50.8 mm (2.0 in.)

CRANKSHAFT

Material . . . . . Cast nodular iron

End Play

4.1 Litre L6 . . . . . 0.05-0.15 mm (.002-.006 in.)

5.0 & 5.7 Litre V8 . . . 0.05-0.18 mm (.002-.007 in.)

Counterweights

4.1 Litre L6 12

5.0 & 5.7 Litre V8 6

Crank Arm Length

4.1 Litre L6 . . . . . 44.83 mm (1.765 in.)

5.0 & 5.7 Litre V8 . . . . . 44.20 mm (1.74 in.)

Torsional Damper . . . . . Rubber mounted inertia

Timing Gear

4.1 Litre L6 . . . . . Cast iron

5.0 & 5.7 Litre V8 . . . . . Sintered iron

MAIN BEARINGS

Material . . . . . Steel backed insert; (copper lead alloy or premium aluminum lining selected for specific engine application)

Type . . . . . Precision removable

Thrust Against Bearing

4.1 Litre L6 . . . . . Number 7

5.0 & 5.7 Litre V8 . . . . . Number 5

Clearance

4.1 Litre L6 . . . 0.007-0.074 mm (.0003-.0029 in.)

5.0 & 5.7 Litre V8

No. 1 . . . . . 0.020-0.051 mm (.0008-.0020 in.)

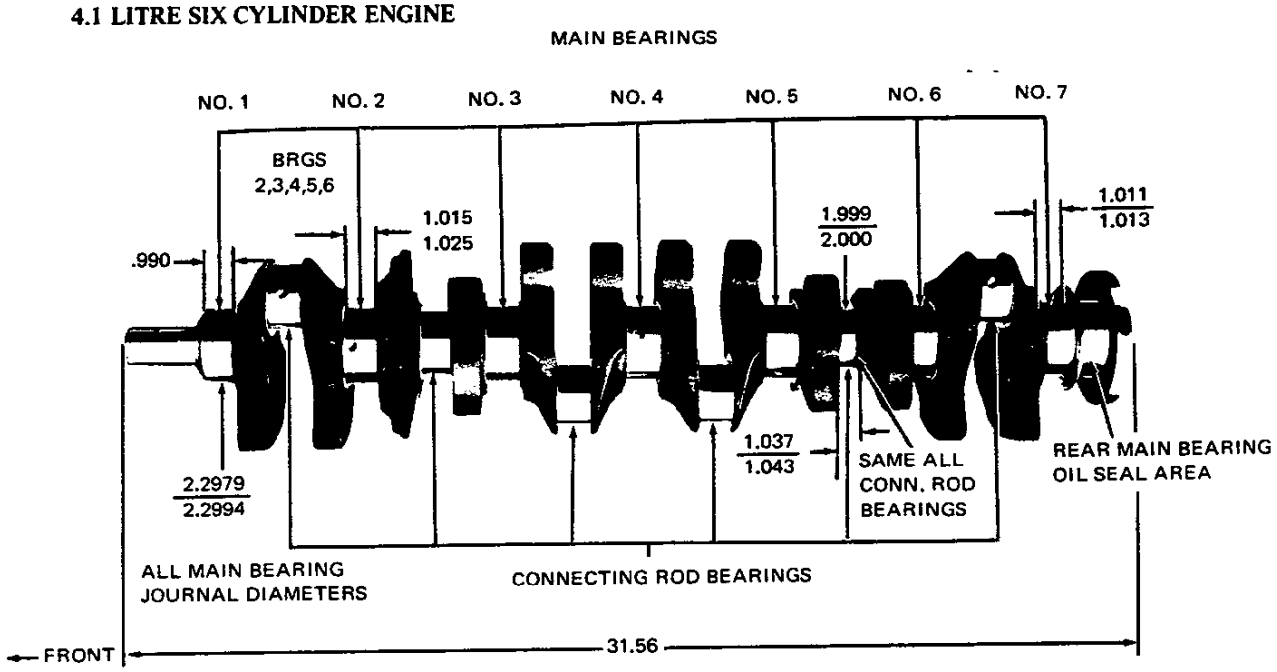
No. 2-4 . . . . . 0.028-0.058 mm (.0011-.0023 in.)

No. 5 . . . . . 0.043-0.084 mm (.0017-.0033 in.)

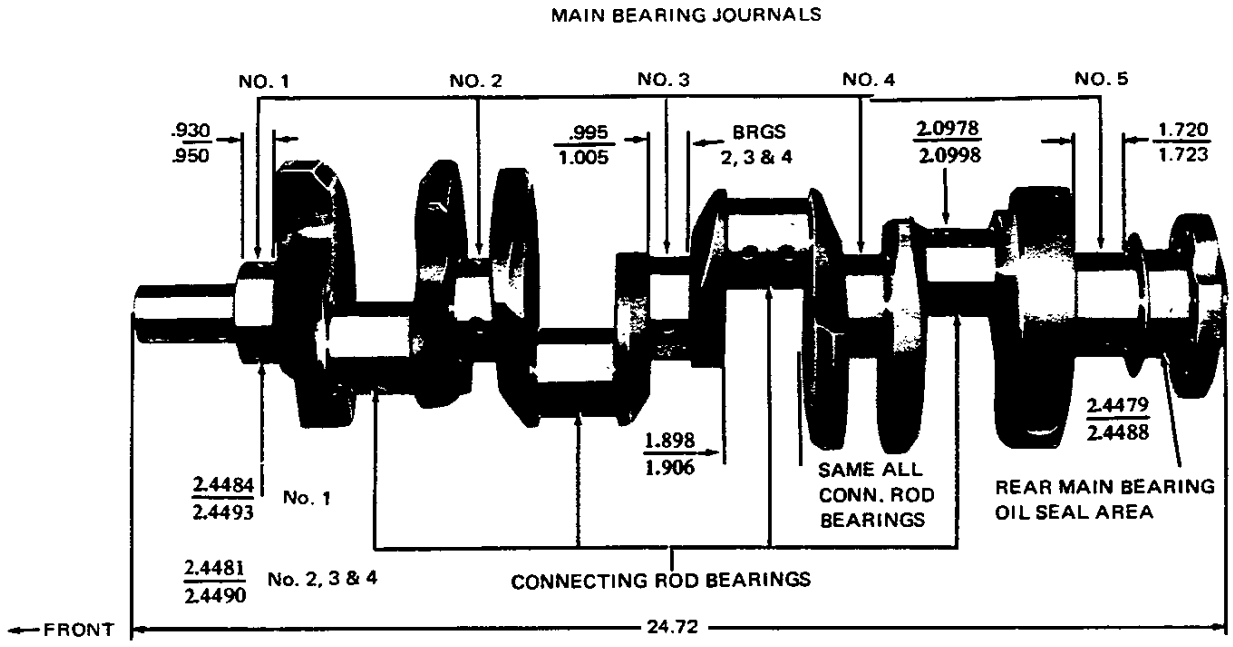
	Theoretical Inner Dia.	Effective Length	Projected Area
4.1 Litre L6			
No. 1-6			
Millimetres	58.417	19.10	43.929 cm^2
Inches	2.2999	.752	1.7295 $in.^2$
No. 7			
Millimetres	58.417	19.30	44.397 cm^2
Inches	2.2999	.760	1.7479 $in.^2$
5.0 & 5.7 Litre V8			
No. 1-4			
Millimetres	62.235	19.10	46.799 cm^2
Inches	2.4502	.752	1.8425 $in.^2$
No. 5			
Millimetres	62.250	29.97	73.454 cm^2
Inches	2.4508	1.180	2.8919 $in.^2$

CRANKSHAFTS AND BEARINGS

4.1 LITRE SIX CYLINDER ENGINE



5.0 & 5.7 LITRE V-8 ENGINES



CAMSHAFT

Material . . . . . Cast alloy iron
Drive
4.1 Litre L6 . . . . . Gear; aluminum alloy
5.0 & 5.7 V8 . . Sprocket & chain, aluminum/nylon

Lobe Lift	Inlet	Exhaust
4.1 Litre L6		
Millimetres	5.631	5.880
Inches	.2217	.2315
5.0 Litre V8		
Millimetres	6.309	6.774
Inches	.2484	.2667
5.7 Litre V8		
Millimetres	6.604	6.942
Inches	.2600	.2733

Camshaft Bearings . . . . . Steel backed babbitt

VALVE TRAIN

Type . . . . . Individually mounted, overhead rocker arms, push rod actuated
Rocker Arms . . . . . Stamped steel
Ratio
4.1 Litre L6 . . . . . 1.75:1
5.0 & 5.7 Litre V8 . . . . . 1.50:1
Push Rods
Material . . . . . Welded steel tubing
Diameter . . . . . 7.937 mm (.3125 in.)
Length
4.1 Litre L6 . . . . . 244.14 mm (9.612 in.)
5.0 & 5.7 Litre V8 . . . . 196.19 mm (7.724 in.)
Rotators
5.0 & 5.7 Litre V8 . . . . . Exhaust

VALVE SPRINGS

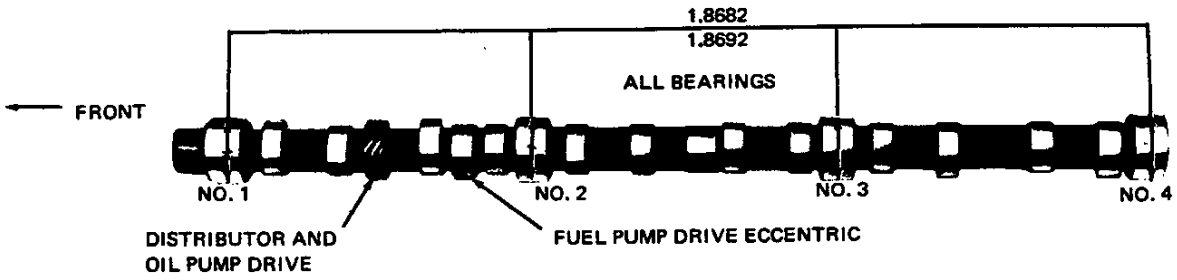
Diameter
4.1 Litre L6 . . . . 22.15-22.35 mm (.872-.880 in.)
5.0 & 5.7 Litre V8 . 22.05-22.45 mm (.868-.884 in.)
Installed Length

Valves closed	N @ mm	Lb. @ in.
4.1 Litre L6		
	346.944-382.528 @ 42.2	78-86 @ 1.66
5.0 & 5.7 Litre V8		
Inlet	341.088-376.992 @ 43.2	76-84 @ 1.70
Exhaust	341.088-376.992 @ 41.0	76-84 @ 1.61
Valves opened		
4.1 Litre L6		
	756.16-800.64 @ 32.0	170-180 @ 1.26
5.0 & 5.7 Litre V8		
Inlet	773.9-827.3 @ 31.7	174-186 @ 1.25
Exhaust	818.4-871.8 @ 29.5	184-196 @ 1.16

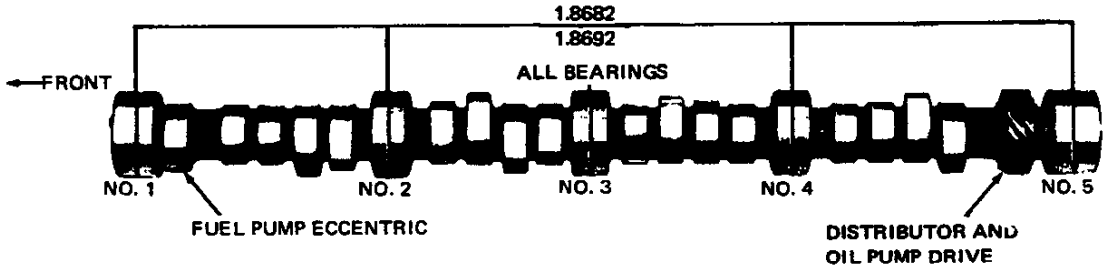
Free Length
4.1 Litre L6 . . . . . 43.8 mm (1.90 in.)
5.0 & 5.7 Litre V8 . . . . . 51.6 mm (2.03 in.)
Valve Spring Damper
4.1 Litre L6 . . . . . None
5.0 & 5.7 Litre V8 . . . . . Flat steel, 4 coils

CAMSHAFT AND BEARINGS

4.1 LITRE L-6 ENGINE

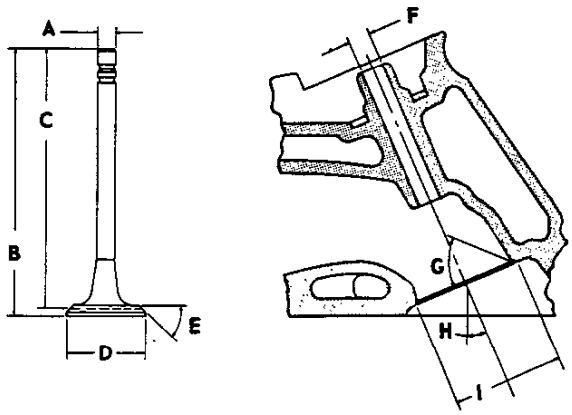


5.0 & 5.7 LITRE V-8 ENGINES



INLET VALVES

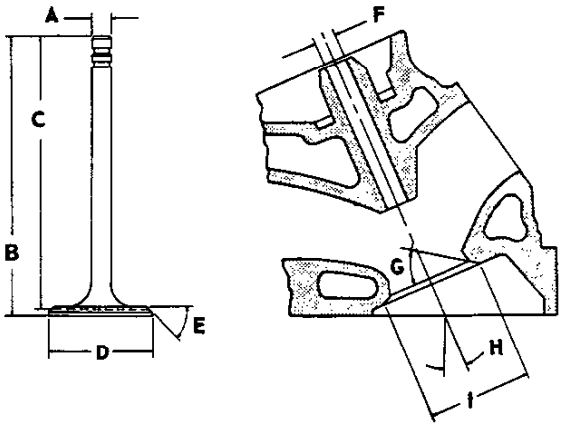
Material . . . . . Alloy steel
Coating
4.1 Litre L6 & 5.0 Litre V8 . . . . . Aluminized face
5.7 Litre V8 . . . . . None
All stems . . . . . Chrome flash



A – Stem Diameter
4.1 Litre L6 . . . . . 8.661-8.679 mm (.3410-.3417 in.)
5.0 & 5.7 Litre V8 . . 8.661-8.679 mm (.3410-.3417 in.)
B – Overall Length
4.1 Litre L6 . . . . . 124.51-125.02 mm (4.902-4.922 in.)
5.0 Litre V8 . . . . . 124.51-125.02 mm (4.902-4.922 in.)
5.7 Litre V8 . . . . . 123.70-124.18 mm (4.870-4.889 in.)
C – Gage Length
4.1 Litre L6 . . . . . 121.54-121.79 mm (4.785-4.795 in.)
5.0 & 5.7 Litre V8 . 121.54-121.79 mm (4.785-4.795 in.)
D – Overall Head Diameter
4.1 Litre L6 . . . . . 43.56-43.81 mm (1.715-1.725 in.)
5.0 Litre V8 . . . . . 43.56-43.81 mm (1.715-1.725 in.)
5.7 Litre V8 . . . . . 49.15-49.28 mm (1.935-1.945 in.)
E – Angle of Face . . . . . 45°
F – Guide Diameter
4.1 Litre L6 . . . . . 8.704-8.730 mm (.3427-.3437 in.)
5.0 & 5.7 Litre V8 . . 8.704-8.730 mm (.3427-.3437 in.)
G – Angle of Seat . . . . . 46°
H – Valve Angle
4.1 Litre L6 . . . . . 9°
5.0 & 5.7 Litre V8 . . . . . 23°
I – Valve Seat (cutter) Diameter
4.1 Litre L6 . . . . . 40.41-40.56 mm (1.591-1.597 in.)
5.0 & 5.7 Litre V8 . . 46.30-46.46 mm (1.823-1.829 in.)

EXHAUST VALVES

Material . . . . . High alloy steel
Coating
4.1 Litre L6 . . . . . Aluminized face
5.0 & 5.7 Litre V8 . . . . . Aluminized face
All stems . . . . . Chrome flash



A – Stem Diameter
4.1 Litre L6 . . . . . 8.661-8.679 mm (.3410-.3417 in.)
5.0 & 5.7 Litre V8 . . 8.661-8.679 mm (.3410-.3417 in.)
B – Overall Length
4.1 Litre L6 . . . . . 124.79-125.30 mm (4.913-4.933 in.)
5.0 & 5.7 Litre V8 . 124.71-125.22 mm (4.910-4.930 in.)
C – Gage Length
4.1 Litre L6 . . . . . 119.63-121.69 mm (4.781-4.791 in.)
5.0 & 5.7 Litre V8 . 119.63-121.69 mm (4.781-4.791 in.)
D – Overall Head Diameter
4.1 Litre L6 . . . . . 37.91-38.23 mm (1.495-1.505 in.)
5.0 & 5.7 Litre V8 . . 37.91-38.23 mm (1.495-1.505 in.)
E – Angle of Face . . . . . 45°
F – Guide Diameter
4.1 Litre L6 . . . . . 8.704-8.730 mm (.3427-.3437 in.)
5.0 & 5.7 Litre V8 . . 8.704-8.730 mm (.3427-.3437 in.)
G – Angle of Seat . . . . . 46°
H – Valve Angle
4.1 Litre L6 . . . . . 9°
5.0 & 5.7 Litre V8 . . . . . 23°
I – Valve Seat (cutter) Diameter
4.1 Litre L6 . . . . . 33.55-33.71 mm (1.321-1.327 in.)
5.0 & 5.7 Litre V8 . . 33.55-33.71 mm (1.321-1.327 in.)

VALVE LIFT
- 4.1 Litre L6
  - Inlet . . . . . 9.855 mm (.3880 in.)
  - Exhaust . . . . . 10.289 mm (.4051 in.)
- 5.0 Litre V8
  - Inlet . . . . . 9.467 mm (.3727 in.)
  - Exhaust . . . . . 10.414 mm (.4100 in.)
- 5.7 Litre V8
  - Inlet . . . . . 9.906 mm (.3900 in.)
  - Exhaust . . . . . 10.414 mm (.4100 in.)

VALVE TIMING (Crankshaft Degrees-Excluding Ramps)
- 4.1 Litre L6
  - Inlet Valve
    - Opens – BTC . . . . . 16°
    - Closes – ABC . . . . . 48°
    - Duration . . . . . 244°
  - Exhaust Valve
    - Opens – BBC . . . . . 64°
    - Closes – ATC . . . . . 50°
    - Duration . . . . . 294°
- 5.0 Litre V8
  - Inlet Valve
    - Opens – BTC . . . . . 28°
    - Closes – ABC . . . . . 64°
    - Duration . . . . . 272°
  - Exhaust Valve
    - Opens – BBC . . . . . 78°
    - Closes – ATC . . . . . 30°
    - Duration . . . . . 288°
- 5.7 Litre V8
  - Inlet Valve
    - Opens – BTC . . . . . 28°
    - Closes – ABC . . . . . 72°
    - Duration . . . . . 280°
  - Exhaust Valve
    - Opens – BBC . . . . . 78°
    - Closes – ATC . . . . . 30°
    - Duration . . . . . 288°

PISTONS
- Material . . . . . Cast aluminum alloy
- Head Type . . . . . Sump
- Skirt Type . . . . . Slipper
- Top Land Clearance
  - 4.1 Litre L6 . . . 0.622-0.851 mm (.0245-.0335 in.)
  - 5.0 Litre V8 . . . 0.622-0.851 mm (.0245-.0335 in.)
  - 5.7 Litre V8 . . . 0.597-0.825 mm (.0235-.0325 in.)
- Skirt Clearance
  - 4.1 Litre L6 . . . 0.013-0.038 mm (.0005-.0015 in.)
  - 5.0 Litre V8 . . . 0.043-0.107 mm (.0017-.0042 in.)
  - 5.7 Litre V8 . . . 0.018-0.043 mm (.0007-.0017 in.)
- Compression Ring Groove Depth
  - 4.1 Litre L6 . . . 5.469-5.634 mm (.2153-.2218 in.)
  - 5.0 Litre V8 . . . 5.088-5.265 mm (.2003-.2073 in.)
  - 5.7 Litre V8 . . . 5.634-5.862 mm (.2218-.2308 in.)
- Oil Ring Groove Depth
  - 4.1 Litre L6 . . . 5.316-5.481 mm (.2093-.2158 in.)
  - 5.0 Litre V8 . . . 5.342-5.570 mm (.2103-.2193 in.)
  - 5.7 Litre V8 . . . 5.176-5.342 mm (.2038-.2103 in.)
- Pin Bore Offset . . . . . 1.40-1.65 mm (.055-.065 in.)
- Compression Height
  - 4.1 Litre L6 . . . 42.11-42.21 mm (1.658-1.662 in.)
  - 5.0 & 5.7 Litre V8 . . . . . 39.57-39.67 mm (1.558-1.562 in.)

PISTON PINS
- Material . . . . . Chromium steel
- Length
  - 4.1 Litre L6 . . . 75.95-76.45 mm (2.990-3.010 in.)
  - 5.0 & 5.7 Litre V8 . . . . . 75.95-76.45 mm (2.990-3.010 in.)
- Diameter
  - 4.1 Litre L6 . 23.546-23.553 mm (.9270-.9273 in.)
  - 5.0 & 5.7 Litre V8 . . . . . 23.546-23.553 mm (.9270-.9273 in.)
- Clearance in Piston
  - 4.1 Litre L6 0.0038-0.0064 mm (.00015-.00025 in.)
  - 5.0 & 5.7 Litre V8 . . . . . 0.0063-0.0089 mm (.00025-.00035 in.)

COMPRESSION RINGS – UPPER
- Material ..... Cast alloy iron
- Type ..... Straight edge inside of ring
- Face
  - 4.1 Litre L6 ..... Barrel
  - 5.0 & 5.7 Litre V8 ..... Radius
- Coating
  - 4.1 Litre L6 ... Wear resistant molybdenum inlay, graphite impregnated
  - 5.0 & 5.7 Litre V8 ..... Chrome flash
- Width
  - 4.1 Litre L6 ... 1.969-1.981 mm (.0775-.0780 in.)
  - 5.0 Litre V8 ... 1.956-1.981 mm (.0770-.0780 in.)
  - 5.7 Litre V8 ... 1.969-1.981 mm (.0775-.0780 in.)
- Wall Thickness
  - 4.1 Litre L6 ..... 4.67-4.93 mm (.184-.194 in.)
  - 5.0 Litre V8 ..... 4.24-4.49 mm (.167-.177 in.)
  - 5.7 Litre V8 ..... 4.83-5.08 mm (.190-.200 in.)
- Gap ..... 0.25-0.51 mm (.010-.020 in.)

COMPRESSION RINGS – LOWER
- Material ..... Cast alloy iron
- Type
  - 4.1 Litre L6 ..... Inside bevel
  - 5.0 & 5.7 Litre V8 ..... Reverse twist
- Face ..... Tapered
- Coating ..... Wear resistant
- Width
  - 4.1 Litre L6 ... 1.956-1.981 mm (.0770-.0780 in.)
  - 5.0 & 5.7 Litre V8 ..... 1.956-1.968 mm (.0770-.0775 in.)
- Wall Thickness
  - 4.1 Litre L6 ..... 4.67-4.93 mm (.184-.194 in.)
  - 5.0 Litre V8 ..... 4.24-4.49 mm (.167-.177 in.)
  - 5.7 Litre V8 ..... 4.83-5.08 mm (.190-.200 in.)
- Gap
  - 4.1 Litre L6 ..... 0.25-0.51 mm (.010-.020 in.)
  - 5.0 Litre V8 ..... 0.25-0.63 mm (.010-.025 in.)
  - 5.7 Litre V8 ..... 0.33-0.63 mm (.013-.025 in.)

OIL CONTROL RINGS
- Type ..... Multi-piece (two rails and one spacer)
- Material
  - Rails ..... Steel
  - Spacer ..... Alloy steel
  - Rail Coating ..... Chrome plating
- Width (assembled)
  - 4.1 Litre L6 ... 4.699-4.750 mm (.1850-.1870 in.)
  - 5.0 Litre V8 ... 4.722-4.773 mm (.1859-.1879 in.)
  - 5.7 Litre V8 ... 4.699-4.750 mm (.1850-.1870 in.)
- Wall Thickness
  - 4.1 Litre L6 ..... 3.86-4.01 mm (.152-.158 in.)
  - 5.0 Litre V8 ..... 3.50-3.63 mm (.138-.143 in.)
  - 5.7 Litre V8 ..... 3.81-3.96 mm (.150-.156 in.)
- Gap
  - 4.1 Litre L6 ..... 0.38-1.40 mm (.015-.055 in.)
  - 5.0 Litre V8 ..... 0.25-0.89 mm (.010-.035 in.)
  - 5.7 Litre V8 ..... 0.38-1.40 mm (.015-.055 in.)

CONNECTING RODS
- Material ..... Drop forged steel
- Length (center to center)
  - 4.1 Litre L6 . 144.65-144.91 mm (5.695-5.705 in.)
  - 5.0 & 5.7 Litre V8 ..... 144.65-144.91 mm (5.695-5.705 in.)

CONNECTING ROD BEARINGS
- Material ..... Premium aluminum
- Type ..... Precision removable
- Clearance
  - 4.1 Litre L6 ... 0.018-0.069 mm (.0007-.0027 in.)
  - 5.0 & 5.7 Litre V8 ..... 0.033-0.089 mm (.0013-.0035 in.)
- Theoretical I.D.
  - 4.1 Litre L6 ..... 50.843 mm (2.0017 in.)
  - 5.0 & 5.7 Litre V8 ..... 53.370 mm (2.1012 in.)
- Effective Length
  - 4.1 Litre L6 ..... 20.50 mm (.807 in.)
  - 5.0 & 5.7 Litre V8 ..... 20.24 mm (.797 in.)
- End Play
  - 4.1 Litre L6 ..... 0.18-0.41 mm (.007-.016 in.)
  - 5.0 & 5.7 Litre V8 ... 0.15-0.41 mm (.006-.016 in.)

FUEL TANK
- Capacity
  - Sedans & Coupes . . . . . 79.5 litres (21 gallon)
  - Station Wagons . . . . . 83.3 litres (22 gallons)
- Fuel Tank Location . . . . . Behind rear axle
- Filler Location
  - Sedans & Coupes . . Behind hinged rear license plate
  - Station Wagons . . . . . Left rear quarter panel

FUEL FILTERS, DUAL
- In Fuel Tank . . . . . Mesh strainer
- In Carburetor Inlet . . . . . Paper

FUEL PUMP ASSEMBLY
- Type . . . . . Mechanical, diaphragm
- Drive . . . . . Camshaft, eccentric
- Location . . . . . Right side front of engine
- Pressure Range (shut off pressure at 1800 RPM)
  - 4.1 Litre L6 . . . . . 31.0-41.4 kPa (4.5-6.0 PSI)
  - 5.0 & 5.7 Litre V8 . . . . 51.7-62.1 kPa (7.5-9.0 PSI)

AIR CLEANER
- Type . . . . . Cylindrical with air horn attached to ducted air inlet
- Diameter
  - 4.1 Litre L6 . . . . . 320.5 mm (12.62 in.)
  - 5.0 & 5.7 Litre V8 . . . . . 393.7 mm (15.5 in.)
- Filter Element . . . . . Oil-wetted paper

CARBURETORS
- Type
  - 4.1 Litre L6 . . . . . 1-barrel, Monojet
  - 5.0 Litre V8 . . . . . 2-barrel
  - 5.7 Litre V8 . . . . . 4-barrel
- SAE Flange Size 1.50
- Throttle Bore
  - 4.1 Litre L6 . . . . . 42.9 mm (1.69 in.)
  - 5.0 Litre V8 . . . . . 42.9 mm (1.69 in.)
  - 5.7 Litre V8
    - Primary . . . . . 35.0 mm (1.38 in.)
    - Secondary . . . . . 57.2 mm (2.25 in.)
- Secondary Throttle Actuation . . . . . By linkage approximately when primary valves are opened halfway between closed and open.
- Venturi Diameter
  - 4.1 Litre L6 . . . . . 33.3 mm (1.31 in.)
  - 5.0 Litre V8 . . . . . 30.2 mm (1.19 in.)
  - 5.7 Litre V8
    - Primary . . . . . 57.2 mm (2.25 in.)
    - Secondary . . . . . Air valve

CHOKE
- Type . . . . . Automatic

EXHAUST SYSTEMS

TYPE
- 4.1 Litre L6 . . . . . Single with single converter
- 5.0 & 5.7 Litre V8 . . . . . Single with crossover pipes and converter

MUFFLERS
- Type . . . . . One, reverse flow
- Construction . . . . . Heads and body joined by rolled lock seam construction
- Head . . 1.3716 mm (.054 in.) sheet metal, aluminized
- Shell . . 1.3716 mm (.054 in.) sheet metal, aluminized
- Wrap . . . 2.286 mm (.090 in.) indented asbestos sheet
- Cover . . . 0.381 mm (.015 in.) sheet metal, aluminized
- Body
  - Length . . . . . 540 mm (21.26 in.)
  - Width (I.D.) . . . . . 279.4 mm (11.0 in.)
  - Height (I.D.) . . . . . 114.5 mm (4.51 in.)

EXHAUST CROSSOVER
- Dimensions (O.D. & Wall Thickness)
  - 5.0 & 5.7 Litre V8 . . . . . 50.8 x 1.016 mm (2.00 x 0.040 in.)

EXHAUST PIPE TO CONVERTER
- Dimensions (O.D.)
  - 4.1 Litre L6 . . . . . 57.15 (2.25)
  - 5.0 & 5.7 Litre V8 . . . . . 63.5 mm (2.50 in.)

EXHAUST PIPE–CONVERTER TO MUFFLER
- Dimensions (O.D. & Wall Thickness)
  - 4.1 Litre L6 . . 57.15 x 1.73 mm (2.25 x 0.068 in.)
  - 5.0 Litre V8 . . 57.15 x 1.73 mm (2.25 x 0.068 in.)
  - 5.7 Litre V8 . . 63.50 x 1.73 mm (2.50 x 0.068 in.)

EXHAUST PIPE–MUFFLER TO RESONATOR
- 5.0 Litre V8 . . . . . 57.15 x 1.70 mm (2.25 x 0.68 in.)

RESONATORS (5.0 Litre V-8)
- Type . . . . . Bottle type
- Inner Tube . . . . . 0.91 mm (.036 in) sheet steel
- Outer Tube . . . . . 1.37 mm (.054 in.) sheet steel

TAIL PIPES
- Dimensions (O.D. & Wall Thickness)
  - 4.1 Litre L6 . . . . 50.8 x 1.40 mm (2.0 x 0.55 in.)
  - 5.0 Litre V8 . . . . 50.8 x 1.40 mm (2.0 x 0.55 in.)
  - 5.7 Litre V8
    - Sedans & Coupes
      - 2.41 Axle . . . . . 57.15 mm (2.25 in)
      - 3.08 Axle . . . . . 63.50 mm (2.50 in)
    - Station Wagons
      - 2.56 Axle . . . . . 57.15 mm (2.25 in)
      - 3.08 Axle . . . . . 63.50 mm (2.50 in)

SYSTEM APPLICATION

System Type	Engine Adaptation		
	4.1 Litre	5.0 Litre	5.7 Litre
CHA – Carburetor Hot Air	a, c	–	–
COA – Carburetor Outside Air	a, c	a, c	a, b, c
CTS – Cold Trapped Spark	a	a, c	a
EFE – Early Fuel Evaporation	a, c	a, c	a, b, c
EGR – Exhaust Gas Recirculation	a, c	a, c	a, b, c
FEC – Fuel Evaporation Control	a, c	a, c	a, b, c
PCV – Positive Crankcase Ventilation	a, c	a, c	a, b, c
UFC – Under Floor Converter	a, c	a, c	a, b, c
MAI – Manifold Air Injection	c	c	b, c
MMC – Monolith Manifold Converter	c	–	–
T-CHA – Trapped-Carburetor Hot Air	–	a, c	a, b, c

a – 49 states without Altitude RPO NA6
b – 49 states with Altitude RPO NA6
c – California

BASIC FUNCTION OF SYSTEMS

CARBURETOR HOT AIR SYSTEM

A thermostatically controlled air induction system designed to aid carburetion. Consists of a heat stove to supply preheated air and a vacuum powered damper to mix air normally drawn in through the snorkel with the hot air. Produces a more uniform carburetor air temperature which permits proper emission control with improved engine operation.

CARBURETOR OUTSIDE AIR

Duct work connecting air cleaner snorkel to air source outside of engine compartment. Provides cooler outside air to CHA system for improved performance after engine warm-up.

COLD TRAPPED SPARK

Maintains distributor spark advance during heavier load accelerations for improved engine performance during warm-up.

EARLY FUEL EVAPORATION

A thermostatically controlled system designed to supply hot exhaust gasses to heat carburetor base and inlet manifold during early stages of cold engine operation. Improves cold engine driveability during warm-up.

EXHAUST GAS RECIRCULATION

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 vapors to the atmosphere by means of an integral separator within 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 and carburetor float bowl to storage, and finally, to the carburetor for utilization in during engine operation.

POSITIVE CRANKCASE VENTILATION

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

UNDER FLOOR CONVERTER

A device placed in the exhaust system containing the catalytic bed through which exhaust gasses are passed. The catalyst may be configured to cause both a reduction and oxydation reaction, or an oxydation reaction only.

MANIFOLD AIR INJECTION

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

MONOLITH MANIFOLD 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.

TRAPPED – CARBURETOR HOT AIR

Check valve added to CHA system to delay damper valve opening to cold air source during large throttle settings for improved driveability during warm-up.

LUBRICATION SYSTEM

GENERAL
- Type . . . . . Controlled full pressure
- Main Bearings . . . . . Pressure
- Connecting Rods . . . . . Pressure
- Piston Pins . . . . . Splash
- Cylinder Walls
  - 4.1 Litre L6 . Main and conn. rod bearing throw-off
  - 5.0 & 5.7 Litre V8 . . . . . Pressure, jet cross sprayed
- Camshaft Bearings . . . . . Pressure
- Valve Lifters . . . . . Pressure
- Rocker Arms . . . . . Pressure
- Timing Gears
  - 4.1 Litre L6 . . . . . Nozzle sprayed
  - 5.0 & 5.7 Litre V8 . . . . . *Centrifugally oiled from* camshaft bearing
- Oil Pressure Sending Unit
  - Type . . . . . Electric
  - Actuation . . . . . Opens or closes circuit @ 13.79 to 41.37 kPa (2 to 6 PSI)
- Oil Filler
  - Cap . . . . . Positive seal
  - Location
    - 4.1 Litre L6 . . . . . Forward end of rocker cover
    - 5.0 & 5.7 Litre V8 . . . . . Rearward on left rocker cover

OIL PAN CAPACITIES
- Refill . . . . . 3.78 litres (4.0 quarts)
- Refill with Filter Change . . . . . 4.26 litres (4.5 qts.)

LUBRICANT GRADES AND TEMPERATURES
- -6.6°C & Above (20°F & Above) . . . 20W-20, 10W-30, 10W-40, 20W40, 20W50
- -17.7°C to + 15.5°C (0° to 60°F) 10W, 5W-30, 10W-30, 10W-40
- -6.6°C & Below (20°F & Below) 5W-20, 10W-30

OIL PUMP
- Type . . . . . Gear
- Regulator Valve . . . . . Opens between 275.8-310.3 kPa (40-45 PSI)
- Oil Pressure
  - 4.1 Litre L6 . . . . . 248-283 kPa (36-41 PSI) @ 2000 RPM
  - 5.0 & 5.7 Litre V8 . . . . . 310.2 kPa (45 PSI) @ 2000 RPM
- Intake Type . . . . . Stationary
- Capacity . . . . . 16.28 litres per minute (4.3 GPM) @ 2000 engine RPM

OIL FILTER
- Type . . . . . Full flow, throw away canister
- Location
  - 4.1 Litre L6 . . . . . Right front of engine
  - 5.0 & 5.7 Litre V8 . . . . . Left rear side of engine
- Capacity . . . . . .59 litres (0.62 qt.)
- Bypass Valve . . . . . Opens between 62.05-75.73 kPa (9-11 PSI) drop in pressure

OIL DIPSTICK–LOCATION
- 4.1 Litre L6 . . . . . Right side rear of engine block
- 5.0 & 5.7 Litre V8 . . . Left side, rear of engine block

OIL PAN DRAIN PLUG
- Type . . . . . Hex head
- Location
  - 4.1 Litre L6 . . . . Front lower side of oil pan sump
  - 5.0 & 5.7 Litre V8 . Left lower face of oil pan sump
- Size of Hex Head . . . 21.84-22.22 mm (.860-.875)
- Thread . . . . . 1/2-20 UNF 2A
- Length . . . . . 20.6 mm (0.81 in.)
- Diameter . . . . . 10.41-10.92 mm (.410-.430 in.)

GENERAL
- Type . . . . . Pressure, vented through coolant recovery system
- Capacity with Heater
  - 4.1 Litre L6 . . . . . 13.5 litres 14.24 qts.)
  - 5.0 & 5.7 Litre V8 . . . . . 15.7 litres (16.60 qts.)

RADIATOR
- Make . . . . . Harrison
- Type . . . . . Crossflow, tube and center
- Core Constant & Thickness
  - Distance between fins – mm (in)
    - 4.1 Litre L-6 . . . . . 5.6 (.22)
    - 5.0 Litre V-8
      - Sedans & Coupes . . . . . 6.4 (.25)
      - Station Wagons – All . . . . . 5.6 (.22)
    - 5.7 Litre V-8 . . . . . 5.1 (.20)
- Core Thickness – mm (in) 31.5 (1.24)
- Frontal Area – cm^2 (in^2) 3096 (480)
- Overflow . . . . . Separate coolant bottle

RADIATOR, HEAVY DUTY (RPO V01)
- Core Constant & Thickness
  - Distance between fins – mm (in)
    - 4.1 Litre L-6 . . . . . 3.6 (.14)
    - 5.0 Litre V-8 . . . . . 3.6 (.14)
    - 5.7 Litre V-8 . . . . . 4.1 (.16)
- Core Thickness – mm (in)
  - 4.1 Litre L-6 . . . . . 31.5 (1.24)
  - 5.0 Litre V-8 . . . . . 31.5 (1.24)
  - 5.7 Litre V-8 . . . . . 49.8 (1.96)
- Frontal Area – cm^2 (in^2) 3096 (480)
- Overflow . . . . . Separate coolant bottle

RADIATOR CAP RELIEF VALVE
- Opens at . . . . . 103.4 kPa (15 PSI)

THERMOSTAT
- Type . . . . . Pellet
- Begins to open at . . . . . 89-92°C (192-198°F)
- Fully opened at . . . . . 108°C (227°F)

RADIATOR HOSE (I.D.)
- Outlet, Lower
  - (radiator to water pump) . . . . . 44.4 mm (1.75 in.)
- Inlet, Upper
  - (thermostat hsg. to radiator) . . . 38.1 mm (1.50 in.)

FAN
- Number of Blades . . . . . 4, staggered
- Diameter
  - 4.1 Litre L6 . . . . . 447.5 mm (17.62 in.)
  - 5.0 & 5.7 Litre V8 . . . . . 482.6 mm (19.0 in.)
- Fan Pulley Pitch Dia. . . . . 177.8 mm (7.0 in.)

BELT – CRANKSHAFT, FAN & GENERATOR
- Number Used . . . . . One
- Angle of 'V' . . . . . 34-38°
- Pitch Line
  - 4.1 Litre L6 . . . . . 965 mm (38.0 in.)
  - 5.0 & 5.7 Litre V8
    - All states except California . 1130 mm (44.5 in.)
    - In California . . . . . 1194 mm (47.0 in.)
- Width
  - 4.1 Litre L6 . . . . . 11.18 mm (.440 in.)
  - 5.0 & 5.7 Litre V8 . . . . . 9.65 mm (.380 in.)

WATER PUMP
- Type . . . . . Centrifugal
- Capacity @ 2000 engine RPM
  - 4.1 Litre L6 . . . . . 79.5 litres (21 GPM)
  - 5.0 & 5.7 Litre V8 . . . . . 85.9 litres (22.7 GPM)
- Bearing . . . . . Permanently lubricated double row ball
- Drive . . . . . Fan belt
- Ratio (fan to crankshaft RPM)
  - 4.1 Litre L6 . . . . . 1.165:1
  - 5.0 & 5.7 Litre V8 . . . . . .949:1

DRAIN LOCATIONS
- Engine Block–Plug
  - 4.1 Litre L6 . . . . . Left side rear
  - 5.0 & 5.7 Litre V8 . . . . . Right and left center
- Radiator – Petcock
  - All . . . . . Lower left rear face

ELECTRICAL SYSTEM

SUPPLY SYSTEM
- BATTERY
  - Voltage Rating and Watts
    - 4.1 Litre L6 12-2500
    - 5.0 & 5.7 Litre V8 12-3200
  - Number of Cells 6
  - Cold Cranking Rating
    - 4.1 Litre L6 . . . . . -18°C (0°F) @ 350 amps; -29°C (-20°F) @ 210 amps; 60 minute reserve capacity
    - 5.0 & 5.7 Litre V8 . . . -18°C (0°F) @ 350 amps; -29°C (-20°F) @ 27 amps; 80 minute reserve capacity
    - Heavy Duty (RPO UA1) . . . . -18°C @ 465 amps; -19°C @ 375 amps; 125 minutes reserve @ 37°C
  - Terminal Grounded . . . . . Negative
  - Location . . Right side front of engine compartment

ALTERNATOR
- Type . . . . . Diode rectified
- Rating
  - Amps 37
  - Volts 12
- Drive . . . . . By fan belt
- Pulley Pitch Diameter . . . . . 61.7 mm (2.43 in.)
- Ratio (Gen. to engine RPM) 2.73:1

REGULATOR
- Type . . . . . Micro circuit unit; integral with alternator
- Voltage . . . . . 13.8-14.8 @ 29.4°C (85°F)

IGNITION SYSTEM
- Type . . . . . High Energy Ignition (H.E.I.)
- Distributors . . . . . Refer to chart below

COIL
- Type . . . . . Integral with distributor

SPARK PLUGS
- Type
  - 4.1 Litre L6 . . . . . R46TS
  - 5.0 & 5.7 Litre V8 . . . . . R45TS
- Thread Size . . . . . 14 mm (0.55 in.)
- Gap
  - 4.1 Litre L6 . . . . . 0.89 mm (.035 in.)
  - 5.0 & 5.7 Litre V8 . . . . . 1.14 mm (.045 in.)
- Torque . . . . . 33.9 N·m (25 lb. ft.)

CABLE . . . . . Fiberglass 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
      - 4.1 Litre L6 49-87
      - 5.0 & 5.7 Litre V8 70-99
    - Volts 10.6
    - RPM
      - 4.1 Litre L6 6200-10700
      - 5.0 & 5.7 Litre V8 7800-12000
  - Motor Drive
    - Engagement . . . . . Solenoid
    - Pinion Tooth No. 9
    - Flywheel Tooth No.
      - 4.1 Litre L6 153
      - 5.0 & 5.7 Litre V8 168

DISTRIBUTORS	4.1 Litre V-6 RPO L22		5.0 Litre V-8 RPO LG3		5.7 Litre V-8 RPO LM1		
Model	1110748	(1110716)	1103379	(1103285)	1103337	1103353	(1103285)
Type	High Energy Ignition (H.E.I.)						
Centrifugal Adv. begins @ RPM	0 @ 1000		0 @ 1000	0 @ 1200	0 @ 1100		0 @ 1200
Max. degrees @ RPM	20 @ 4200		20 @ 3800	22 @ 4200	22 @ 4600		22 @ 4200
Vac. Adv. begins @ kPa ("Hg.)	0 @ 13.5						
	0 @ 4						
Max. degrees @ kPa	20 @ 33.8	15 @ 40.5	20 @ 33.8	10 @ 27.0	24 @ 33.8	20 @ 33.8	10 @ 27.0
("Hg.)	20 @ 10	15 @ 12	20 @ 10	10 @ 8	24 @ 10	20 @ 10	10 @ 8
Timing (initial design setting) Crankshaft deg. @ RPM with vacuum line disconnected	8° BTC	6° BTC	4° BTC	4° BTC	6° BTC		8° BTC
Timing Mark Location	Torsional Damper						

Items bracketed ( ) are specific to California.

THREE-SPEED AUTOMATIC TRANSMISSION

Application			Sedans, Coupes & Station Wagons	Sedans & Coupes 200
General Data	Type		Automatic hydraulic torque converter with compound planetary gear system - three forward speeds and reverse	
	Selector Lever	Location	Steering column	
		Operation	Actuates controls by a hydraulic system from pressurized gear type pump	
		Quadrant pattern	P-R-N-D-L2-L1	
	Parking Lock	Type	Locking pawl	
		Operation	Applied by selector lever through manual linkage	
	Method of cooling		Water	
	Flywheel assembly		Steel stamping with welded on ring gear	
	Oil pressure pump		Supplies hydraulic pressure from an engine driven gear type pump	
Hydraulic System	Type		Steel spool 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 (a)	Drive	60	55
		L2	87	80
		L1	87	80
		Reverse	91	84
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 and outer steel shells	
	Stator assembly		Aluminum multivane type blades mounted on a one way (overrunning) roller clutch	
	Stall ratio		2.00	2.35
	Stall speed (RPM)		2110	
	Diameter (nominal)		298.4 mm (11.75 in.)	
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	2.74 - 1.57 - 1.00:1
		L2 (Low two)	2.52:1 - 1.52:1	2.74 - 1.57:1
		L1 (Low one)	2.52:1	2.74:1
		R (Reverse)	1.93:1	2.07:1
	Servo Unit		Piston with release spring and inner cushion spring	
Case	Material		Aluminum	
Clutches	Type		Four, multiple disk	Three, multiple disk
	Material	Drive plates	Steel with bonded organic facings	
		Driven plates	Flat steel	
	Forward clutch		5 each drive & driven plates	4 each drive & driven plates
	Direct clutch		4 each drive & driven plates	3 each drive & driven plates
	Intermediate clutch		3 each drive & driven plates	- - -
	Low & Reverse clutch		5 each drive & driven plates	4 each drive & driven plates
	Release spring		Radial row steel coil	
Torque Multiplication	Drive (maximum)		5.04:1 to 1.00	6.44:1 - 1.00
	Low 2		5.04:1 to 1.52	6.44:1 - 1.57
	Low 1		5.04:1 to 2.52	6.44:1 - 2.74
	Reverse		3.86:1 to 1.93	4.86:1 - 2.07
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 II	
	Capacity	Dry	9.5 litres (20 pints)	9.5 litres (20 pints)
		Refill	3.8 litres (8 pints)	3.3 litres (7 pints)

(a) 600 RPM input

METRIC (U.S. Customary)

1979 mvma Specifications Form Passenger Car

ORIGINAL

Manufacturer	Car Line	
Chevrolet Motor Division General Motors Corporation	Chevrolet	
Mailing Address	**Model Year**	**Issued:**
Chevrolet Engineering Center 30003 Van Dyke Warren, Michigan 48090	1979	September, 1978 Revised (•) February, 1979

Pages revised: 3, 8, 16, 24, 29

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The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.

MVMA Specifications Form
Passenger Car

Table of Contents

NOTE:

1. This form uses both SI metric units and U.S. Customary units. The Metric unit of measurement is presented first, and the U.S. Customary unit follows in parentheses.
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 linear dimensions are in millimetres (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. A printed or computer tape supplement containing additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

Car Models

Model Description (Include Line Drawings of Vehicles, if Desired)	Make, Car line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)		Max. Trunk/Cargo Load — Kilograms (Pounds)
	Model Number	Front	Rear	
Impala				
4-Door Sedan	1BL69	3	3	
2-Door Coupe	1BL47	3	3	
4-Door Station Wagon, 2-seat	1BL35	3	3	
Caprice Classic				
4-Door Sedan	1BN69	3	3	
2-Door Coupe	1BN47	3	3	
4-Door Station Wagon, 2-seat	1BN35	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 Chevrolet

Model Year 1979 Issued 9/78 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						TRANSMISSION	AXLE RATIO (:1) (Std. first) (Indicate A/C ratio)		
	Displ. litres (in³)	Carb.	Compr. Ratio	SAE Net at RPM kW (bhp)	SAE Net at RPM Torque N·m (lb. ft.)	Exhaust System*		A	B	C
Base - All States Sedans & Coupes	L-6 4.1 L (250) RPO L22	1-bbl	8.0:1 (8.2:1 Calif)	86 (115) @ 3800	271 (200) @ 1600	S	3-Spd. Automatic 'Auto 350' - Base	2.56@	--	--
Optional - All States Sedans & Coupes	V-8 5.0L (305) RPO LG3	2-bbl	8.4:1	97 (130) @ 3200	332 (245) @ 2000	S	3-Spd. Automatic 'Auto 350' - Base	2.41	--	--
							'Auto 200' - Base(+)			
Base - All exc. Calif. Station Wagon							3-Spd. Automatic 'Auto 350' - Base	2.56	--	--
Optional - All States Sedans & Coupes	V-8 5.7L (350) RPO LMI	4-bbl	8.2:1	127 (170) @ 3800	366 (270) @ 2400	S	3-Spd. Automatic 'Auto 350' - Base	2.41	--	--
							'Auto 200' - Base *			
							3-Spd. Automatic 'Auto 350' - Base	--	3.08	3.0[illegible]
Optional - All States Station Wagon							3-Spd. Automatic 'Auto 350' - Base	2.56	3.08	[illegible]

(+) Manufacturing option.
(#) 'Base' and "Optional" refer to engine availability.
A - Base - all states.
B - Optional all states.
C - Above 4000 feet altitude (RPO NA6).

Limited slip differential and air conditioning available with all axle ratios.

@ - 2.73 for California
* - Manufacturing option for California only.

California & Altitudes Above 4000 feet:

Engine	Horsepower	Torque
4.1 Litre	67(90)@3600	237(175)@1600
5.0 Litre	93(125)@3200	319(235)@2000
5.7 Litre	123(165)@3800	353(260)@2400

*S—Single D—Dual

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) 2/79

Engine Description/Carb.	4.1 Litre (250 CID) L-6/1-Bbl. RPO L22

Engine — General

Total dressed engine mass (wt) dry*		196.7 (433.6)
Type (inline, V, Flat)		In-line
No. of cylinders		6
Bore		98.4 (3.875)
Stroke		89.7 (3.53)
Piston Displacement cm^3 (in^3)		4097 (250)
Bore Spacing (C/L to C/L)		111.8 (4.4)
Cyl. No. system (front to rear)	L Bank	1-2-3-4-5-6
	R Bank	---
Firing Order		1-5-3-6-2-4
Cylinder Head Material		Cast Iron
Cylinder Block Material		Cast Iron
Cylinder block deck height		232.4 (9.15)
Number of mtg. points	Front	Two
	Rear	One
Engine installation angle		4° 30'
Recommended fuel Leaded, unleaded		Unleaded
Fuel antiknock index $\frac{(R+M)}{2}$		87
Cylinder Head Volume — cm^3		70 (4.27)
Head Gasket Thickness (Compressed)		.0385 (.0023)
Head Gasket Volume — cm^3		8.249 (.5034)
Deck clearance (minimum) (above or below block)		.64 (.025) below
Minimum Combustion Chamber Volume — cm^3		6.8 (.415)

Engine — Pistons

Material			Cast Aluminum Alloy
Description and finish			Sump head, closed skirt
Mass, g (weight, oz.) — Piston Only			574 (20.2)
Clearance (limits)	Top land (a)		0.622-0.851 (.0245-.0335)
	Skirt	Top	0.013-0.038 (.0005-.0015)
		Bottom	
Ring groove diameter	No. 1 ring		87.22-87.48 (3.434-3.444)
	No. 2 ring		87.22-87.48 (3.434-3.444)
	No. 3 ring		87.53-87.78 (3.446-3.456)

*Dressed engine mass (weight) includes the following:

Material required to make engine an independent working power unit less radiator
● hoses, coolant, accelerator controls or engine mountings, includes 3-spd. auto. trans.

(a) Measured 42.2 mm (1.66 in) from top of piston.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (*) _____

Engine Description/Carb.	5.0 Litre (305 CID) V-8/ 2-Bbl. RPO LG3	5.7 Litre (350 CID) V-8/ 4-Bbl. RPO LM1

Engine — General

Total dressed engine mass (wt) dry*		251.4 (554.2)	230.4 (507.9)
Type (inline, V, Flat)		90° V	
No. of cylinders		8	
Bore		94.89 (3.736)	101.6 (4.0)
Stroke		88.4 (3.48	88.4 (3.48)
Piston Displacement cm³ (in³)		4998 (305)	5735 (350)
Bore Spacing (C/L to C/L)		111.8 (4.40)	
Cyl. 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	
Cylinder block deck height		229.4 (9.03)	
Number of mtg. points	Front	Two	
	Rear	One	
Engine installation angle		4° 30'	
Recommended fuel Leaded, unleaded		Unleaded	
Fuel antiknock index $\frac{(R+M)}{2}$			
Cylinder Head Volume — cm³		60.5 (3.69)	75.47 (4.61)
Head Gasket Thickness (Compressed)		0.34 (.021)	0.34 (.021)
Head Gasket Volume — cm³		3.98 (.243)	4.6 (.28)
Deck clearance (minimum) (above or below block)		0.41 (.025) below	
Minimum Combustion Chamber Volume — cm³		59.5 (3.63)	74.8 (4.56)

Engine — Pistons

Material			Cast Autothermic	
Description and finish			Sump head; closed skirt	
Mass, g (weight, oz.)—Piston Only			508 (17.9)	604 (21.3)
Clearance (limits)	Top land		.622-.851 (.0245-.0335)	.597-.826 (.0235-.0325)
	Skirt	Top (a)	.043-.107 (.0017-.0042)	.018-.043 (.0007-.0017)
		Bottom		
Ring groove diameter	No. 1 ring		84.33-84.71 (3.320-3.335)	89.94-90.32 (3.541-3.556)
	No. 2 ring		84.33-84.71 (3.320-3.335)	89.94-90.32 (3.541-3.556)
	No. 3 ring		83.32-84.20 (3.300-3.315)	90.86-91.24 (3.577-3.592)

*Dressed engine mass (weight) includes the following:
Material required to make the engine an independent working power unit less radiator hoses, coolant, accelerator controls or engine mountings.

(a) Measured 39.6 mm (1.56 in.) from top of piston.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Engine Description/Carb.	4.1 Litre (250 CID) L-6/1-Bbl. RPO L22

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, etc.	Upper	Cast Alloy iron, barrel face, .102 mm (.004) moly channel
		Lower	Cast alloy iron, tapered face, reverse inside bevel, lubrited
	Width	Upper	1.969-1.981 (.0775-.0780); Lower - 1.956-1.981 (.0770-.0780)
	Gap		0.25-0.51 (.010-.020)
Oil	Description—material, coating, etc.		Multi-piece (2 rails & (1) spacer-expander). Rails - Steel. .15(.006)minimum chrome on segments. Stainless steel spacer-expan
	Width		4.699-4.750 (.1850-.1870)
	Gap		.038 -1.40 (.015 - .055)
Expanders			In oil ring assembly

Engine — Piston Pins

Material			Chromium steel
Length			75.95-76.45 (2.990-3.010)
Diameter			23.546-23.553 (.9270-.9273)
Type	Locked in rod, in piston, floating, etc.		Locked in rod
	Bushing	In rod or piston	None
		Material	--
Clearance	In piston		.0038-.0064 (.00015-.00025)
	In rod		
Direction & amount offset in piston			Major thrust side; 1.52 (.060)

Engine — Connecting Rods

Material		Forged Steel
Mass, g (weight, oz.)		404 (14.2)
Length (center to center)		144.65-144.91 (5.695-5.705)
Bearing	Material & Type	Premium aluminum
	Overall length	20.50 (.807)
	Clearance (limits)	.018-.069 (.0007-.0027)
	End Play	.18 - .41 (.007 - .016)

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

Engine Description/Carb.	5.0 Litre (305 CID) V-8/ 2-Bbl. RPO LG3	5.7 Litre (350 CID) V-8/ 4-Bbl... RPO LM1

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, etc.	Upper	Cast alloy iron; radius face, .01 (.0004) chrome flash	
		Lower	Cast alloy iron; reverse twist, tapered face, lubrited	
	Width	Upper(a)	1.956 - 1.981 (.0770-.0780)	1.969-1.981 (.0775-.0780)
	Gap	Upper	.25-.50 (.010-.020); Lower - .33 - .63 (.013-.025)	
Oil	Description—material, coating, etc.		TRW T-flex design, .05 (.002) minimum chrome	Stainless steel, .05 (.002) minimum chrome
	Width		4.722-4.735 (.1859-.1879)	4.699-4.750 (.1850-.1870)
	Gap		.25-.89 (.010-.035)	.38-1.40 (.015-.055)
Expanders			In oil ring assembly	

Engine — Piston Pins

Material			Chromium steel
Length			75.95-76.45 (2.990-3.010)
Diameter			23.546-23.553 (.9270-.9273)
Type	Locked in rod, in piston, floating, etc.		Locked in rod
	Bushing	In rod or piston	None
		Material	
Clearance	In piston		.0063-.0089 (.00025-.00035)
	In rod		
Direction & amount offset in piston			Major thrust side - 1.52 (.060)

Engine — Connecting Rods

Material		1037 or 1038 steel
Mass, g (weight, oz.)		388 (13.7)
Length (center to center)		144.65-144.91 (5.695-5.705)
Bearing	Material & Type	Premium aluminum
	Overall length	20.24 (.797)
	Clearance (limits)	.033-.089 (.0013-.0035)
	End Play	.15-.41 (.006-.016)

(a) Lower: -
305 V8 - 1.969 - 1.981 (.0775-.0780)
350 V8 - 1.956 - 1.969 (.0770-.0775)

MVMA Specifications Form
Passenger Car

Car Line Chevrolet

Model Year 1979 Issued 9/78 Revised (•)

Engine Description/Carb	4.1 Litre (250 CID) L-6/1-Bbl.

Engine — Crankshaft

Material			Nodular cast iron
Vibration damper type			Rubber mounted inertia
End thrust taken by bearing (No.)			7
Crankshaft end play			.05 - .15 (.002-.006)
Main bearing	Material & type		#1 thru #6 - Premium aluminum. #7 upper - Copper lead alloy; #7 lower - premium aluminum.
	Clearance		.008-.074 (.0003-.0029)
	Journal dia. and bearing overal length	No. 1	58.417 x 19.10 (2.2999 x .752)
		No. 2	58.417 x 19.10 (2.2999 x .752)
		No. 3	58.417 x 19.10 (2.2999 x .752)
		No. 4	58.417 x 19.10 (2.2999 x .752)
		No. 5	58.417 x 19.10 (2.2999 x .752)
		No. 6	58.417 x 19.10 (2.2999 x .752)
		No. 7	58.417 x 19.30 (2.2999 x .760)
	Dir. & amt. cyl. offset		None
	No. bolts/main brg. cap		Two
Crankpin journal diameter			50.77 - 50.80(1.999-2.000)

Engine — Camshaft

Location			Above and to right of crankshaft
Material			Cast alloy iron
Bearings	Material		Steel backed babbitt
	Number		4
Type of Drive	Gear, chain or belt		Gear
	Crankshaft gear or sprocket material		Cast Iron
	Camshaft gear or sprocket material		Aluminum
	Timing chain	No. of links	None
	Chain or Belt	Width	None
		Pitch	None

MVMA Specifications Form
Passenger Car

Car Line: Chevrolet

Model Year: 1979 Issued: 9/78 Revised (•):

Engine Description/Carb.	5.0 Litre (305 CID) V-8/ 2-Bbl. RPO LG3	5.7 Litre (350 (CID) V-8/ 4-Bbl. RPO LM1

Engine — Crankshaft

Material			Nodular cast iron
Vibration damper type			Rubber mounted inertia
End thrust taken by bearing (No.)			5
Crankshaft end play			.05-.18 (.002-.007)
Main bearing	Material & type		Premium aluminum except as noted below: (a)
	Clearance		(b)
	Journal dia. and bearing overal length	No. 1	62.202 x 20.37 (2.4489 x .802)
		No. 2	62.202 x 20.37 (2.4489 x .802)
		No. 3	62.202 x 20.37 (2.4489 x .802)
		No. 4	62.202 x 20.37 (2.4489 x .802)
		No. 5	62.189 x 38.94 (2.4484 x 1.533)
		No. 6	--
		No. 7	--
	Dir. & amt. cyl. offset		--
	No. bolts/main brg. cap		Two
Crankpin journal diameter			53.31-53.34 (2.099-2.100)

Engine — Camshaft

Location			In block above crankshaft
Material			Cast alloy iron
Bearings	Material		Steel backed babbitt
	Number		5
Type of Drive	Gear, chain or belt		Silent chain
	Crankshaft gear or sprocket material		Sintered iron
	Camshaft gear or sprocket material		Aluminum-nylon
	Timing chain	No. of links	46
	Chain or Belt	Width	15.87 (.625)
		Pitch	12.7 (.500)

(a) 5.0 L - #1 - G66 Conecc.
5.0 & 5.7 L - #5 upper - copper lead alloy.

(b) #1 - .020-.051 (.0008-.0020)
#2,3,4 - .028 - .058 (.0011 - .0023)
#5 - .043-.084 (.0017-.0033)

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Engine Description/Carb.	4.1 Litre (250 CID) L-6/1-Bbl. Carb.

Engine — Valve System

Hydraulic lifters (Std., opt., NA)			Standard
Valve rotator, type (intake, exhaust)			None
Push rods (dia., length, material)			7.937 x 244.14 (.3125x9.612); 1010 steel carbonitrided
Rocker ratio			1.75:1
Operating tappet clearance (indicate hot or cold	Intake		Zero
	Exhaust		Zero
Timing (based on top of ramp points)	Intake	Opens (°BTC)	16
		Closes (°ABC)	48
		Duration (deg.)	244
	Exhaust	Opens (°BBC)	64
		Closes (°ATC)	50
		Duration (deg.)	294
	Valve open overlap (deg.)		66
Intake Valve	Material		Forged SAE 1541 or 1547; chrome flash stem
	Overall length		124.51-125.02 (4.902-4.922)
	Actual overall head dia.		43.56 - 43.81 (1.715 - 1.725)
	Angle of seat & face (deg.)		46 seat, 45 face
	Seat insert material		None
	Stem diameter		8.661-8.679 (.3410-.3417)
	Stem to guide clearance		.025-.069 (.0010-.0027)
	Lift (at zero lash)		9.855 (.3880)
	Outer spring press. & length	Valve closed—N at mm (lb. at in.)	346.944 - 382.528 @ 42.2 (78-86 @ 1.66)
		Valve open—N at mm (lb. at in)	756.16-800.65 @ 32 (170-180 @ 1.26)
	Inner spring press. & length	Valve closed—N at mm (lb. at in.)	None
		Valve open—N at mm (lb. at in.)	None
Exhaust Valve	Material		Armco 21-4N, two-piece welded head, SAE 1050 chrome flash stem
	Overall length		124.79 - 125.30 (4.913-4.933)
	Actual overall head dia.		37.97-38.23 (1.495-1.505)
	Angle of seat & face (deg.)		46 seat, 45 face
	Seat insert material		None
	Stem diameter		8.661-8.679 (.3410-.3417)
	Stem to guide clearance		.025-.069 (.0010-.0027)
	Lift (at zero lash)		10.289 (.4051)
	Outer spring press. & length	Valve closed—N at mm (lb. at in.)	346.944-382.528 @ 42.2 (78-86 @ 1.66)
		Valve open—N at mm (lb. at in.)	756.16 - 800.65 @ 32 (170-180 @ 1.26)
	Inner spring press. & length	Valve closed—N at mm (lb. at in)	None
		Valve open—N at mm (lb. at in.)	None

MVMA Specifications Form
Passenger Car

Car Line Chevrolet

Model Year 1979 Issued 9/78 Revised (•) ____

Engine Description/Carb.	5.0 Litre (305 CID) V-8/ 2-Bbl. RPO LG3	5.7 Litre (350 CID) V-8/ 4-Bbl. RPO LM1

Engine — Valve System

Hydraulic lifters (Std., opt., NA)			Standard	
Valve rotator, type (intake, exhaust)			Exhaust	
Push rods (dia., length, material)			7.937 x 196.19 (.3125 x 7.724), 1010 steel, carbonitrided	
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
Intake Valve	Material		SAE 1541 steel, chrome flash stem	SAE 1541 or 1547 forged steel (a)
	Overall length		124.51-125.02 (4.902-4.922)	123.70-124.18 (4.870-4.889)
	Actual overall head dia.		43.56-43.81 (1.715-1.725)	49.15-49.28 (1.935-1.945)
	Angle of seat & face (deg.)		46 seat, 45 face	
	Seat insert material		None	
	Stem diameter		8.661-8.679 (.3410-.3417)	
	Stem to guide clearance		.025-.069 (.0010-.0027)	
	Lift (at zero lash)		9.467 (.3727)	9.906 (.3900)
	Outer spring press. & length	Valve closed—N at mm (lb. at in.)	341.088-376.992 @ 43.2 (76-84 @ 1.70)	
		Valve open—N at mm (lb. at in)	773.9-827.3 @ 31.7 (174-186 @ 1.25)	
	Inner spring press. & length	Valve closed—N at mm (lb. at in.)	Spring Damper	
		Valve open—N at mm (lb. at in.)	Spring Damper	
Exhaust Valve	Material		21-2N steel, aluminized head, chrome flash stem	
	Overall length		124.79-125.30 (4.913-4.933)	124.71-124.79 (4.910-4.930)
	Actual overall head dia.		37.97-38.23 (1.495-1.505)	
	Angle of seat & face (deg.)		46 seat, 45 face	
	Seat insert material		None	
	Stem diameter		8.661-8.679 (.3410-.3417)	
	Stem to guide clearance		.025-.069 (.0010-.0027)	
	Lift (at zero lash)		10.414 (.4100)	
	Outer spring press. & length	Valve closed—N at mm (lb. at in.)	341.088-376.992 @ 41.0 (76-84 @ 1.61)	
		Valve open—N at mm (lb. at in.)	818.4-871.8 @ 29.5 (184-196 @ 1.16)	
	Inner spring press. & length	Valve closed—N at mm (lb. at in)	Spring damper	
		Valve open—N at mm (lb. at in.)	Spring damper	

(a) Chrome flash stem.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

Engine Description/Carb.	4.1 Litre (250 CID) L-6/1-Bbl. RPO L22

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	Nozzle
	Cylinder walls	Splash
Oil pump type		Gear
Normal oil pressure - kPa (lb.) at engine rpm		275.8 (40) @ 2000
Type oil intake (floating, stationary)		Stationary
Oil filter system (full flow, part, other)		Full Flow
Capacity of c/case, less filter-refill-L (qt.)		3.8 (4.0)
Oil grade recommended (SAE viscosity and temperature range)		(a)
Engine service reqmt. (SD, SE, etc.)		SE

Engine — Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler No. & Type (reverse flow, straight thru, separate resonator)		One, Reverse flow
Resonator No. & type		None
Exhaust Pipe	Branch O.D., wall thickness	None
	Main O.D., wall thickness	50.8 x 1.02 (2.0 x .040); 57.15 x 1.02 (2.25 x .040) (b)
	Material	Laminated stainless steel tubing
Intermediate Pipe	O.D. & wall thickness	57.15 x 1.73 (2.25 x .068)
	Material	Aluminized Steel Tubing
Tail Pipe	O.D. & wall thickness	50.8 x 1.40 (2.0 x .040)
	Material	Aluminized steel tubing

(a) Minus 6.6°C (20°F) and above - 20W-20, 10W-30, 10W-40, 20W-40, 20W-50
Minus 17.7°C to + 15.5°C (0°to 60°F) - 10W, 5W-30, 10W-40, 10W-30
Minus 6.6°C (20°F) and below - 5W-20, 10W-30

(b) California only.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Engine Description/Carb.	5.0 Litre (305 CID) V-8/ 2-Bbl. RPO LG3	5.7 Litre (350 CID) V-8/ 4-Bbl: RPO LM1

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 - kPa (lb.) at engine rpm		310.3 (45) @ 2000
Type oil intake (floating, stationary)		Stationary
Oil filter system (full flow, part, other)		Full flow
Capacity of crcase, less filter-refill-L (qt.)		3.8 (4.0)
Oil grade recommended (SAE viscosity and temperature range)		(a)
Engine service reqmt. (SD, SE, etc.)		SE

Engine — Exhaust System

Type (single, single with cross-over, dual, other)		Single with crossover	
Muffler No & Type (reverse flow, straight thru, separate resonator)		One, reverse flow	
Resonator No & type		One, bottle type (sedans & coupes only)	
Exhaust Pipe	Branch O.D., wall thickness	50.8 x 1.02 (2.0 x .040)	
	Main O.D., wall thickness	63.5 x 1.73 (2.5 x .068)	
	Material	Laminated stainless steel tubing	
Intermediate Pipe	O D & wall thickness	57.15 x 1.73 (2.25 x .068)	63.5 x 1.73 (2.5 x .068)
	Material	Aluminized steel tubing	
Tail Pipe	O D & wall thickness	50.8 x 1.40 (2.0 x .055) m	57.15 x 1.80 (2.25 x .071)(b)
	Material	Aluminized steel tubing	

(a) Minus 6.6°C (20°F) and above - 20W-20, 10W-30, 10W-40, 20W-40, 20W-50
Minus 17.7°C to +15.5°C (0 to 60°F) - 10W, 5W-30, 10W-40, 10W-30
Minus 6.6°C (20°F) and below - 5W-20, 10W-30.

(b) Sedans & coupes with 3.08 ratio rear axle use 63.5 x 1.80 (2.5 x .071) pipe

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) 2/79

Engine Description/Carb.	4.1L(250CID) L-6/ 1-Bbl. RPO L22	5.0L(305CID) V-8/ 2-Bbl. RPO LG3	5.7L(350CID) V-8/ 4-Bbl. RPO LM1

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—L (U.S. gals.)		Sedans & Coupes - 79.5 (21.0); Station Wagons - 83.3 (22.0)		
	Filler location		Sedans & Coupes - Behind hinged rear license plate (a)		
Fuel Pump	Type (elec. or mech.)		Mechanical		
	Locations		Lower right front of engine		
	Pressure range—kPa (psi)		31.4-41.4 (4.5-6.0)	51.7-62.0 (7.5-9.0)	
Fuel Filter	Type		Fine mesh plastic strainer in gasoline tank and paper filter element in carburetor inlet		
	~~Locations~~				
Carburetor	Choke type		Automatic		
	Intake manifold heat control (exhaust or water)		Exhaust		
	Air cleaner type	Standard	Single snorkel to	Ducted air, closed paper element, thermac,	
		~~Optional~~	O/S ducted air, thermac	single snorkel, steel	
	Idle spd.-rpm (spec. neutral or drive)	Manual	--	--	--
		Automatic	675/D (600/D)	500/D (600/D)	500/D*
	Idle A/F mix.				

(*) - 600/D above 4000 feet altitudes (RPO NA6).

Carburetor Supplementary Information

Model Usage	Piston Displ. —L (in.³)	Transmission	Carburetors Make	Carburetors Model (b)	No. Used and Type	Barrel Size
Sedans & Coupes	4.1 (250)	Automatic	Rochester	17059014 (17059314)	One, 1-bbl.	42.9 (1.69)
All	5.0 (305)	Automatic		17059134 (17059434)	One, 2-bbl.	42.9 (1.69)
	5.7 (350)	Automatic		17059202 (17059502) 17059582*	One, 4-bbl.	35.0 (1.38) pri. 57.2 (2.25) sec.

(b) Data bracketed ( ) pertains specifically to California.
(a) Station Wagons - Left rear quarter panel.
* - RPO NA6 (above 4000 feet altitude).

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

Engine Description/Carb.	4.1L(250CID) L-6/ 1-Bbl. RPO L22	5.0L (305CID) V-8/ 2-Bbl. RPO LG3	5.7L(350CID) V-8/ 4-Bbl. RPO LM1

Engine — Cooiing System

Coolant recovery system (std., opt., none)			Standard		
Radiator cap relief valve pressure—kPa (psi)			103.4 (15)		
Circulation thermostat	Type (choke, bypass)		Choke		
	Starts to open at °C (°F)		90.6 (195)		
Water pump	Type (centrifugal, other)		Centrifugal		
	GPM 1000 pump rpm	79.5 (21)		85.9 (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—L (qt.)	13.4 (14.2)	15.7 (16.6)	15.7 (16.6)	
	Without heater—L (qt.)				
	Opt. equipment-specify—L (qt.)				
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	44.4 (1.75)		
	Upper	Number and type (molded, straight)	One, molded		
		Inside diameter	38 (1.50)		
	By-pass	Number and type (molded, straight)	None		
		Inside diameter	---		
Radiator	Standard	Width	718.8 (28.3)		
		Height	431 (16.97)		
		Thickness	31.5 (1.24)		
	A/C	Width	718.8 (28.3		
		Height	431 (16.97)		
		Thickness	31.5 (1.24)		
	Heavy duty	Width	718.8 (28.3)		
		Height	431 (16.97)		
		Thickness	31.5 (1.24)	49.8 (1.96)	
Fan (Standard)	Number of blades & spacing		4, staggered		
	Diameter		447.5 (17.62)	483 (19.0)	
	Ratio—fan to crankshaft rev.		1.16:1	0.949:1	
	Fan cutout type		None		
Fan (optional)	No. of blades and spacing		7, staggered	5, staggered	
	Diameter		457.2 (18.0)	508.0 (20.0)	
	Ratio—fan to crankshaft rev.		1.25:1	0.949:1	
	Fan cut-out type		Thermo-modulated viscous type clutch		

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Engine Description/Carb.	4.1L-L-6; 5.0L & 5.7L V-8 All States except Calif	4.1L L-6; 5.0L & 5.7L V-8 Calif. and 350 V-8 Above 4000 feet altitude

Vehicle Emission Control

Exhaust Emission Control	Type (Air injection, engine modifications, other)			Engine Modifications	Manifold Air Injection
	Air Injection Pump	Type			Semi-articulated vane
		Displacement—cm³ (in³)			316 (19.3)
		Drive ratio			1.15:1 (L-6); 1.33:1 (V-8)
		Drive type		CONTROLLED	Crankshaft pulley
		Relief valve (type)			Diverter valve
		Filter (describe)			Centrifugal air cleaner
	Air Injection System	Air distribution (head, manifold, etc.)		COMBUSTION	Exhaust pipe
		Point of entry			Exhaust pipe
		Injection tube i.d.		SYSTEM	7.036 (.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		L-6 - Right front; V-8 - Right rear of manifold	
		Control energy source		Carburetor vacuum	
		Exhaust source		Manifold exhaust crossover	
		Exhaust cooler type		None	
		Orifice no. and size		One; 0.76 (.030)	
		Point of exhaust injection (spacer, carburetor, manifold, other)		Inlet manifold	
	Catalytic Converter System	Catalyst	Type	Platinum - palladium	
			Volume—L (in³)	4.26 (260)	
		Substrate type		Alumina	
		Container location		Beneath right front underbody; also, monolith manifold converter of 0.9 (.015) volume in California on 250 L-6.	
	Other	Carburetor Hot Air		Thermostatically controlled air cleaner regulates and mixes heated air from incoming cold air to reduce hydrocarbon emission.	

MVMA Specifications Form
Passenger Car

Car Line Chevrolet

Model Year 1979 Issued 9/78 Revised (•) _____

Engine Description/Carb.	4.1 L L-6/1-bbl RPO L22	5.0 L V-8/2-bbl RPO LG3...	5.7 L V-8/4-bbl RPO LM1

Vehicle Emission Control (Continued)

Crankcase Emission Control	Type (ventilates to atmos., induction system, other)	Standard	Induction system		
		Optional	- - - - -		
	Control Unit	Make and model	A.C. Spark Plug		
		Location	Valve rocker cover - L-6, upper rear; V-8 - left front		
		Energy source (manifold vacuum, carburetor, other)	Manifold vacuum		
		Control method (variable orifice, fixed orifice, other)	Variable orificer		
	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—dm^3 (ft^3)	Approximately 10% of refill capacity		
		Relief Pressure kPa (psi) and location	7.6 (1.1)		
		Vacuum relief kPa (psi) and location	4.8 (0.7)		
		Vapor-liquid separator type	Integral with fuel tank		
		Vapor vented to (crankcase, canister, other)	Canister		
	Carburetor	Vapor vented to (crankcase, canister, other)	Canister	Internally vented	
	Vapor Storage	Storage provision (crankcase, canister, other)	Canister		
		Volume—dm^3 (ft^3) or capacity (grams)	Approximately 50 grams		
		Control valve type	Controlled by orifice and carburetor throttle body and throttle blade position.		

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Engine Description/Carb.	4.1L (250 CID) L-6/ 1-Bbl. RPO L22	5.0L (305 CID) V-8/ 2-Bbl. RPO LG3	5.7L (350 CID) V-8/ 4-Bbl. RPO LM1

Electrical — Supply System

Battery	Make and Model		Delco Remy 'Freedom'	
	Voltage Rtg.—V— & Total Plates		12V, 2500 watts	12V, 3200 watts
	SAE Designation No. and/or capacity		60 Minute Reserve Capacity	80 minute reserve capacity
	Location		Engine compartment, right front	
Generator or Alternator	Make		Delco Remy	
	Model		1102491	1102394
	Type and rating		Diode rectified -37	
	Output at engine idle (neutral) A		12-20	
	Ratio—Gen. to Cr/s rev.		2.73:1	
Regulator	Make		Delco Remy	
	Model		- - -	
	Type		Micro circuit unit; integral with alternator	
	Regulated	Voltage	13.8-14.8	
		Current A	- - -	
	Voltage test conditions	Temperature—°C (°F)	Operating	
		Load A	3 - 8	
		Other	None	

Electrical — Starting System

Starting Motor	Make		Delco Remy		
	Model		1109061	1109064	1109065
Motor Drive	Engagement Type		Positive shift solenoid		
	Pinion engages from (front, rear)		Rear		
	Number of teeth	Pinion	9		
		Flywheel — Manual	- - -		
		Flywheel — Auto	153	168	

14" dia

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

Engine Description/Carb.	4.1L (250 CID) L-6/ 1-Bbl. RPO L22	5.0L (305 CID) V-8/ 2-Bbl. RPO LG3	5.7L (350 CID) V-8/ 4-Bbl. RPO LM1

Electrical — Ignition System — Distributor

Distributor	Manual	- - -	- - -	- - -
	Automatic	1110748 (1110716)	1103379 (1103285)	1103353 (S.W.) (1103285) 1103337 (exc. S.W.)
Timing	Manual	- - -	- - -	- - -
	Automatic	10° BTC (6° BTC)	4° BTC (4° BTC)	6° BTC (8° BTC)

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at kPa (in. of Hg.)	
	Start	Intermediate	Maximum	Start	Maximum
1110748	0@1000	7@1600	20@4200	0@13.5	20@33.8
1110716	0@1000	7@1600	20@4200	0@13.5	15@40.5
1103285	0@1200	12@2000	22@4200	0@13.5	10@27.0
1103353	0@1100	12@1600	22@4600	0@13.5	20@33.8
1103337	0@1100	12@1600	22@4600	0@13.5	24@33.8
1103379	0@1000	10@1700	20@3800	0@10.1	20@33.8

Data in brackets ( ) specific to California.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Engine Description/Carb.	4.1L (250 CID) L-6/ 1-Bbl. RPO L22	5.0L (305 CID) V-8/ 2-Bbl. RPO LG3	5.7L (350 CID) V-8/ 4-Bbl. RPO 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 cap	
	Current	Engine stopped—A	- - -	
		Engine idling—A	- - -	
Spark Plug	Make		AC Spark Plug	
	Model		R46TS	R45TS
	Thread (mm)		14	
	Tightening torque—N·m (lb. ft.)		33.9 (25)	
	Gap		.89 (.035)	1.14 (.045)

Electrical — Suppression

Locations & type	

Electrical — Instruments and Equipment

Speed-ometer	Type	Rectangular Dial with Pointer
	Trip odometer (std., opt., N.A.)	Optional
EGR maintenance indicator		NA
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	NA
Wind-shield Wiper	Type—standard	Electric, Two-speed
	Type—optional	Intermittent control type
	Blade length	457.2 (18.0 in.)
	Swept area—cm^2($in.^2$)	Coupes 6770 (1049.6 in^2) Sedans + Wagons 6107 (946.8 in^2)
Wind-shield Washer	Type—standard	Push Button
	Type—optional	NA
	Fluid level indicator	NA
Horn	Type	Vibrator
	Number used	Dual - 1BN00 models; one (low note) on 1BL00 models.
	Current draw (A) per horn	4.5-6.5@12.5 volts
Other		Restraint System Warning Light and buzzer. Parking Brake and Brake Failure Warning Light. Fuel Economy (Vacuum) and Coolant Temperature Gauges in Optional Package.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet

Model Year 1979 Issued 9/78 Revised (*)

Engine Description/Carb.	4.1L (250 CID) L-6/ 1-Bbl. RPO L22	5.0L (305 CID) V-8/ 2-Bbl. RPO LG3	5.7L (350 CID) V-8/ 4-Bbl. RPO LM1

Drive Units — Clutch (Manual Transmission)

Make & type		
Type pressure plate springs		
Total spring load—N (lb.)		
No. of clutch driven discs		
Clutch facing	Material	NOT
	Manufacturer	
	Part Number	
	Rivets/Plate	
	Rivet size	APPLICABLE
	Outside & inside dia.	
	Total eff. area - cm^2 ($in.^2$)	
	Thickness	
	Engagement cushion-method	
Release bearing	Type & method of lubrication	
Torsional damping	Methods: springs, friction material	

Drive Units —Transmissions

Manual 3-speed (std., opt., N.A.)	N.A.
Manual 4-speed (std., opt., N.A.)	N.A.
Manual 5-speed (std., opt., N.A.)	N.A.
Manual overdrive (std., opt., N.A.)	N.A.
Automatic (std., opt., N.A.)	Standard

Drive Units — Manual Transmissions

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

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) 2/79

Engine Description/Carb.	4.1L (250 CID) L-6/ 1-Bbl. RPO L22	5.0L (305 CID) V-8/ 2-Bbl. RPO LG3	5.7L (350 CID) V-8/ 4-Bbl. RPO LM1

Drive Units—Automatic Transmission (See "Power Teams" for transmission usage)

Trade name		3-Speed Automatic		
Type (describe)		Auto '200'		Auto '350'
		Torque converter with planetary gears		
Selector location		Steering column		
Gear Ratios	P	Park		
	R	2.07		1.93
	N	Neutral		
	D	2.74-1.57-1.0		2.52-1.52-1.0
	L2	2.74-1.57		2.52-1.52
	L1	2.74		2.52
Max. upshift speed—drive range—km/h (mph)		106-132 (66-82)	121-149 (75-92)	121-149 (75-92)
Max. kickdown speed—drive range—km/h (mph)		101-125 (63-78)	114-142 (71-88)	113-142 (70-88)
Torque Converter	Number of elements	3		
	Max. ratio at stall	2.35		2.0
	Type of cooling (air, liquid)	Liquid		
	Nominal diameter	298.4 (11.75)		310 (12.2) Federal*(a
Lubricant	Capacity—refill—L (pt.)	4.0 (7.5)		3.8 (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 clutch	
Drive Pinion Offset		38.0 (1.50)-7.50" R.G.; 44.0 (1.75)-8.5 & 8.75"R.G.	
No. of differential pinions		Two	
Pinion adjustment (shim, other)		Shim	
Pinion bearing adj. (shim, other)		Collapsible sleeve	
Wheel bearing type		Direct or single row cylindrical	
Lubricant	Capacity—L (pt.)	1.5 (3.25)-7.50" R.G.; 1.9 (4.0)-8.50 & 8.75" R.G.	
	Type recommended	GL-5 Gear lubricant	
	SAE viscosity number—Summer	80W or 80W-90	
	SAE viscosity number—Winter	80W or 80W-90	
	SAE viscosity number—Extreme cold	80W or 80W-90	

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

Axle Ratio		2.41 (b)	2.41 (b)	2.56	2.73	3.08	2.56	3.08
No. of teeth	Pinion	17	17	16	15	13	16	13
	Ring gear	41	41	41	41	40	41	40
Ring Gear O. D.		191 (7.5)*	216 (8.50)				222 (8.75)	

(a) 298.4 (11.75) California.
(*) Ring gears for limited slip differential - 216 (8.50).
(b) 191 (7.50) and 216 (8.50) ring gears will be used optionally on Impala Coupe and Sedan and Caprice Coupe with RPO LG3 engine.
* - Sedan and Coupe only.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

Engine Description/Carb.	191mm (7.50) Ring Gear	216 (8.50) & 222 (8.75) Ring Gear

Drive Units—Propeller Shaft

Number used			One	
Type (straight tube. tube-in-tube, internal-external damper, etc.)			Straight Tube	
Outer diam. x length* x wall thick-ness	Manual 3-speed trans.		N.A.	
	Manual 4-speed trans.		N.A.	
	Manual 5-speed trans.		N.A.	
	Overdrive		N.A.	
	Automatic transmission		69.9 x 1489.2 x 1.65 (2.75x 58.63 x .065)	76.2 x 1464.2 x 1.65 (3.0 x 57.65 x .065)
Inter-mediate bearing	Type (plain, anti-friction)		None	
	Lubrication (fitting, prepack)		- - -	
Slip Yoke	Type		Yoke	
	Number of teeth		27	
	Spline O. D.		29.858 - 29.883 (1.1755 - 1.1765)	29.845 - 29.850 (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)	Anti-friction	
		Lubric. (fitting, prepack)	Prepack	
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.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

Engine Description/Carb.	Sedans & Coupe		Station Wagon
	4.1L (250 CID) L-6	5.0 & 5.7L V-8	5.0 & 5.7L V-8

Drive Units—Tires And Wheels (Standard)

TIRES	Size, load range, ply		FR78-15 (B/W, W/S)		HR78-15 (B/W, W/S)
	Type (bias, radial, etc.)		Glass belted radial	Steel belted radial	
	Inflation pressure (cold) for recommended max. vehicle load	Front—kPa (psi)	221 (32) (a) 179 (26) (b)		165 (24)
		Rear—kPa (psi)	221 (32) (a) 179 (26) (b)		221 (32)
	Rev /mile—at 70 km/h (45 mph)		484@72 (779@45)		462@72 (744@45)
WHEELS	Type & material		Short spoke disc, steel		
	Rim (size & flange type)		15 x 6		15 x 7
	Wheel offset		12.7 (.50)		7.5 (.30)
	Attachment	Type (bolt or stud)	Stud		
		Circle diameter	120.6 (4.75)		127.0 (5.0)
		Number & size	5-7/16-20 UNF-2B hex nuts		5-½-20 UNF-2B hex nu
	Spare wheel (same or other)		Same		

Drive Units—Tires And Wheels (Optional)

Size, load range, ply	FR78-15 (B/W, W/S)	
Type (bias, radial, etc.)	Steel belted radial	
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply	GR78-15 (W/S)	
Type (bias, radial, etc.)	Steel belted radial	
Wheel type & material	Short spoke disc, steel (d)	
Rim (size, flange type, and offset)	15 X 7; 7.5 (.30)	
Size, load range, ply	GR70-15 (W/S) (c)	
Type (bias, radial, etc.)	Steel belted radial	
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)	- - -

(a) For better fuel economy.
(b) For improved ride.
(c) Required with RPO F41 Handling Package.
(d) With RPO F41 and PB2 Deluxe Wheel Trim Covers.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

	Body Type And/Or Engine Displacement	
	Sedans & Coupes	Station Wagons

Brakes—Service

Brake Type (std., Opt., N.A.)	Drum	Front		N.A.
		Rear		Standard
	Disc	Front		Standard
		Rear		N.A.
Self-adjusting (std., opt., N.A.)				Standard
Special Valving	Type (proportion, delay, metering, other)			Metering & proportioning
Power Brake (std., opt., N.A.)				Standard
Booster Type (remote, integral, vac., hyd., etc.)				Integral
Anti-skid device type (std., opt., N.A.)				N.A.
Effective area—cm^2 ($in.^2$)•				648.3 (100.52) / 717.0 (111.2)
Gross lining area—cm^2 ($in.^2$)••				716.6 (111.1) / 792.1 (122.8)
Swept area—cm^2 ($in.^2$)•••				2127.2 (329.8) / 2419.7 (375.1)
Rotor	Outer working diameter	F		279.4 (11.0) / 301.2 (11.86)
		R		- - -
	Thickness	F		26.2 (1.03)
		R		- - -
	Material & type (vented/solid)	F		Cast iron, vented
		R		- - -
Drum	Diameter (nominal)	F		- - -
		R		241.3 (9.5) / 279.4 (11.0)
	Type and material			Cast iron, finned
Wheel cylinder bore	Front			74.7 (2.9375)
	Rear			22.22 (.875) / 23.81 (.9375)
Master Cylinder	Bore			28.57 (1.125)
	Stroke			39.6 (1.56)
Pedal arc ratio				3.5:1
Line pressure at 445 N (100 lb.) pedal load—MPa (psi)				
Lining Clearance Per Shoe	Front			Self adjusting
	Rear			Self adjusting
Brake lining	Front Wheel	Bonded or riveted, rivets/seg.		Riveted
		Rivet size		Front - 5.33x9.12 (.210x.359); Rear - 3.6x6.35 (.143x.250)
		Manufacturer		Delco Moraine
		Lining Code		GM110FF / GM111FF
		Material		Molded asbestos
		Size •••• Prim. or out-board		137.2 x 48.8 x 11.81 (5.40 x 1.92 x.465)
		Size •••• Second or in-board		137.2 x 48.8 x 11.81 (5.40 x 1.92 x .465)
		Shoe thickness (no lining)		Inboard - 15.75 (.620); Outboard - 14.0 (.550)
	Rear Wheel	Bonded or riveted, rivets/seg.		Riveted; 10 - primary, 12-secondary
		Manufacturer		Delco Moraine
		Lining Code		Primary - GM224 FF; Secondary - GM235FF
		Material		Molded asbestos
		Size •••• Prim. or out-board		192.5x50.8x4.98 (7.58x2.0x.196) / 225x50.8x5.6 (8.86x2.0x.22)
		Size •••• Second or in-board		249.7x50.8x6.73 (9.83x2.0x.265) / 291.3x50.8x6.6 (11.47x2.0
		Shoe thickness (no lining)		Primary - 7.64 (.301) / Primary - 8.25 (.325)
				Secondary - 9.40 (.370) / Secondary - 9.27 (.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 Work... Dia. minus Square of Inner Working Dia. multiplied by $\pi/2$ for each brake.)
••••Size for drum brakes includes length x width x thickness.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet

Model Year 1979 Issued 9/78 Revised (•) _____

Steering

				Sedans & Coupes	Station Wagons
Manual (std., opt., N.A.)				N.A.	
Power (std., opt., N.A.)				Standard	
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt - Universal jointed steering shaft at base of steering wheel - 6 - position	
		(Std., opt., N.A.)		Optional	
Wheel diameter		Manual		- - -	
		Power		387.3 (15.25)	
Turning diameter m(feet)	Outside front	Wall to wall (l. & r.)		13.6 (44.55)	13.8 (45.11)
		Curb to curb (l. to r.)		11.8 (38.81)	12.1 (39.63)
	Inside rear	Wall to wall (l. to r.)			
		Curb to curb (l. to r.)			
Manual	Gear	Type			
		Make			
		Ratios	Gear		
			Overall		
	No. wheel turns (stop to stop)				
Power	Type (coaxial, linkage, etc.)			Integral gear with power piston & vanetype pump	
	Make			Saginaw steering	
	Gear	Type		Semi-reversible, recirculating ball nut	
		Ratios	Gear	14.0:1	16.0:1 on center
			Overall	16.45:1	18.8:1 on center
	Pump driven by			Crankshaft pulley	
	No. wheel turns (stop to stop)			3.16	3.3
Linkage	Type			Parallelogram	
	Location (front or rear of wheels, other)			Front	
	Drag links (trans. or longit.)			None	
	Tie rods (one or two)			Two	
Steering Axis	Inclination at camber (deg.)			9.785@1	
	Bearings (type)	Upper		Ball stud with non-metallic surfaces	
		Lower		Ball stud with non-metallic surfaces	
		Thrust		None	
Steering spindle & joint type					
Wheel Spindle	Diameter	Inner bearing		31.7 (1.25)	
		Outer bearing		19.0 (.75)	
	Thread size			3/4-20	
	Bearing type			Tapered roller	
Wheel Align at curb mass (wt.)	Service checking	Caster (deg.)		+2 to +4	
		Camber (deg.)		0 to +1.6	
		Toe-in [outside track-mm (in.)]		+.05 to +0.25	
	Service reset	Caster		+3° + 0.5°	
		Camber		+0.8° + 0.5°	
		Toe-in (deg.)		+.15 +.05°	
	Periodic M.V. Inspection	Caster		+1 to +5	
		Camber		-0.7 to +2.3	
		Toe-in		-.15 to +.55	

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

Body Type And/Or Engine Displacement	
Sedans & Coupes	Station Wagons

Suspension — General

(See Supplement page for details on Air Suspension)

Provision for car leveling		Front stabilizer bar
Provision for brake dip control		Front suspension geometry
Provision for acc. squat control		Rear suspension geometry
Special provisions for car jacking		Position jack in bumper slot on lower face of front & rear bumpers.
Shock absorber front & rear	Type	Direct, double acting, hydraulic
	Make	Delco
	Piston dia.	27 (1.06)
Other special features		Air booster shock absorbers optional on rear of vehicles

Suspension — Front

Type and description		Independent - SLA type with coil springs.	
Travel	Full jounce	90.4 (3.56)	
	Full Rebound	107.7 (4.24)	
Spring	Type (coil, leaf, other)	Coil	
	Material	Steel Alloy	
	Size (coil design height & I.D., bar length x dia.) (a)	241.3 x114.3; 274.3 x15.2 (9.5 x 4.5; 108 x .60)	241.3 x 114.3; 274.3 x 16.8 (9.5 x 4.5; 108 x .66)
	Spring rate — N/mm (lb./in.) (a)	52.5 (300)	77.0 (440)
	Rate at wheel — N/mm (lb./in.)	15.3 (87)	22.0 (125)
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	Steel; 26 (1.0) - 29 (1.14)(b)	Steel; 28 (1.1)

Suspension — Rear

Type and description		Salisbury 4-link type with coil springs	
Drive and torque taken through		Control arms	
Travel	Full Jounce	122.7 (4.83)	101.1 (3.98)
	Full Rebound	116.3 (4.58)	112.0 (4.41)
Spring	Type (coil, leaf, other)	Coil	
	Material	Steel Alloy	
	Size (length x width, coil design height & I.D., bar length & dia.) (a)	254 x 139.7; 2428.2 x 12.8 (10.0 x 5.5; 95.6 x .504)	254 x 139.7; 2585.7 x 15.5 (10.0 x 5.5; 101.8 x .609)
	Spring rate—N/m (lb./in.) (a)	17.5 (100)	29.0 (165)
	Rate at wheel—N/m (lb./in.)	18.9 (108)	28.7 (164)
	Mounting insulation type	- - -	
	If leaf: No. of leaves	- - -	
	If leaf: Shackle (comp. or tens.)	- - -	
Stabilizer	Type (link, linkless, frameless)	Link	None
	Material & bar diameter	Steel; 21.8 (.86) (b)	- - -
Track bar type		None	

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

(b) Used with RPO F41 Sport Suspension equipment.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

Body Type		
4-Door Sedan	2-Door Coupe	4-Door Station Wagon

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)		Lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		Internal
Vehicle Ident. No. Location		Top left hand instrument panel pad.
Vent window control method (crank, friction pivot, power)	Front	None
	Rear	None
Seat cushion type	Front	Formed full foam pad.
	Rear	Formed full foam pad.
	3rd Seat	Formed full foam pad.
Seat back type	Front	Formed full foam pad.
	Rear	Formed full foam pad.
	3rd seat	Formed full foam pad.
Method of holding luggage compart. lid open		Torsion Rods
Position of spare tire storage		Sedans + coupes, front center of trunk compartment.
		Station wagons, vertical right rear quarter panel.

Frame

Type and description (Separate frame, unitized frame, partially-unitized frame)	Perimeter type, two cross members.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) _____

	Body Type		
	4-Door Sedans	2-Door Coupes	Station Wagons

Convenience Equipment

Power windows	Side Windows	Optional	
	Vent windows	NA	
	Backlight or tailgate	NA	Optional
Power seats (specify type as well as availability)		Optional - 6 way 50/50 power bench (left only), all models. - 6 way power bench, all models.	
Reclining front seat back (R-L or both)		50/50 seat, Passenger seat only.	
Radios (specify type as well as availability)		Optional - AM push button, AM/FM, (2) included in stereo unit. AM stereo with tape, AM/FM stereo with tape. (b)	
Rear seat speaker		Optional with AM and AM/FM.	
Power antenna		Optional	
Clock		Standard 1BN00 Models, Optional 1BL00 Models.	
Air conditioner (specify type)		Optional - Four season, manual controls, (a).	
Speed warning device		NA	
Speed control device		Optional	
Ignition lock lamp		NA	
Dome lamp		Standard	
Glove compartment lamp		Standard	
Luggage compartment lamp		Standard	Optional - Rear cr
Underhood lamp		Optional	
Courtesy lamp		Standard 1BN00 Models, Optional 1BL00 Models.	
Map lamp		NA	
Cornering lamp		NA	
Rear window defroster electrically heated		Optional	
Rear window defogger		Optional	NA
Theft protection—type		Lock mounted on steering column; Locks steering wheel, transmission shift levers and ignition.	
(a)		Optional - "Comfortron," Automatic temperature control.	

(b) AM/FM Stereo Radio with Citizen's band Transceiver.
AM/FM Monaural Radio with Citizen's band Transceiver.
AM/FM Stereo Radio with Clock and Digital display.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) 2/79

Vehicle Mass (Weights)

	Model	CURB MASS, kg. (Weight, lb.)*			% PASS. WEIGHT DISTRIBUTION				SHIPPING MASS, Kg. (Weight, lb.)**
					Pass. In Front		Pass. In Rear		
		Front	Rear	Total	Front	Rear	Front	Rear	
	Impala								
•	4-Door Sedan - 1BL69 (a)	892.6	742.0	1634.6					1584.6
		(1968)	(1636)	(3604)					(3493)
•	2-Door Coupe - 1BL47 (a)	886.8	738.2	1625.0					1575.0
		(1955)	(1627)	(3582)					(3472)
•	4-Door, 2-Seat Station Wagon - 1BL35 (b)	907.0	952.7	1859.7					1807.0
		(2000)	(2100)	(4100)					(3984)
	Caprice Classis								
•	4-Door Sedan - 1BN69 (a)	906.4	750.2	1656.6					1606.6
		(1998)	(1654)	(3652)					(3542)
•	2-Door Coupe - 1BN47 (a)	896.1	746.8	1642.9					1592.9
		(1975)	(1646)	(3621)					(3512)
•	4-Door, 2 Seat Station Wagon - 1BN35 (b)	916.4	961.8	1878.2					1825.5
		(2020)	(2120)	(4140)					(4024)

(a) with L6-250 CID Engine.

(b) with V8-305 CID Engine.

Curb Weight - The calculated weight of a vehicle with standard equipment, only as designed with the additional load of oils, lubes, coolants, and fuel all filled to capacity.

Shipping Weight - Same as base curb weight, except 3 gallons of gasoline.

*Reference — SAE J1100a, Motor Vehicle Dimensions, Curb Weight Definition.
**Shipping Mass (Weight) definition—

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (*)

Optional Equipment Mass (Weights)*

Equipment Differential Mass (Weights)	MASS, kg. (Weight, lb.) Front	Rear	Total	Remarks
Air Conditioning Comfortron	30.6 (+67)	1.8 (+4)	32.4 (+71)	With I6 engine
	36.4 (+80)	1.8 (+4)	38.2 (+84)	With V8 engine
Air Conditioning 4-Season	29.4 (+65)	1.6 (+3)	31.0 (+68)	With I6 engine
	35.2 (+78)	1.6 (+3)	36.8 (+81)	With V8 engine
Electric Door Locks	1.0 (+2)	1.0 (+2)	2.0 (+4)	2-Door Models
	1.8 (+4)	1.4 (+3)	3.2 (+7)	4-Door Models
Power Frt. Bench Seat	4.5 (+10)	4.1 (+9)	8.6 (+19)	
Floor Mats front & rear	1.2 (+2.6)	2.2 (+4.9)	3.4 (+7.5)	
Vinyl Roof Cover (padded)	0.8 (+2)	1.6 (+3)	2.4 (+5)	
Power windows	2.0 (+4.5)	1.4 (+3)	3.4 (+7.5)	2-Door Models
	4.2 (+9)	4.8 (+11)	9.0 (+20)	4-Door Models
Wheel Trim Covers	0.8 (+2)	0.8 (+2)	1.6 (+4.0)	
Bumper Impact Strips	0.6 (+1.3)	0.4 (+0.7)	1.0 (+2)	Sedans & Coupes
	0.6 (+1.3)	1.0 (+2.2)	1.6 (+3.5)	Station Wagons
Bumper Guards	2.2 (+5)	2.0 (+4)	4.2 (+9.0)	Sedans & Coupes
	2.2 (+5)	1.2 (+2.5)	3.4 (+7.5)	Station Wagons

* Also see Engine—General Section for dressed engine mass (weight).

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Equipment Differential Mass (Weights)	Optional Equipment Mass (Weights)* MASS, kg. (Weight, lb.) Front	Rear	Total	Remarks
Radio AM Push-Button	2.4 (+5.5)	1.0 (+2.0)	3.4 (+7.5)	
Radio AM/FM Push-Button	2.8 (+6.0)	1.0 (+2)	3.8 (+8)	
Radio AM/FM Stereo	4.8 (+10.5)	1.8 (4.0)	6.6 (14.5)	
Radio AM Stereo & Tape	5.0 (+11)	1.8 (+4)	6.8 (+15)	
Radio AM/FM Stereo & Tape	5.4 (+12)	1.6 (+3)	7.0 (+15)	
Auxiliary speaker	0 (0)	1 (+2)	1 (+2)	
Roof Luggage Carrier	0 (0)	9.4 (+21)	9.4 (+21)	
Heavy Duty Front & Rear Suspension	3.2 (+7)	10.9 (+24)	14.1 (+31)	
305 CID V8 Engine RPO LG3	47.4 (+104)	3.0 (+7)	50.4 (+111)	Sedans & Coupes
350 CID V8 Engine RPO LM1	52.6 (+116)	3.8 (+8)	56.4 (+124)	Sedans & Coupes
	5.0 (+11)	0.8 (+2)	5.8 (+13)	Station Wagons
Radio, AM/FM Stereo with Citizen's band Transceiver.	3.4 (+7.5)	1.8 (+4)	5.2 (11.5)	
Radio, AM/FM Monaural with Citizen's band Transceiver	3.2 (+7)	1.2 (+2.5)	4.4 (+9.5)	
Radio, AM/FM Stereo with Clock & Digital display	4.8 (+10.5)	1.6 (+3.5)	6.4 (+14)	

*Also see Engine—General Section for dressed engine mass (weight).

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Car and Body Dimension See Key Sheets. for definitions.

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.
SAE Ref. No. refers to the definition published in SAE Recommended Practice.
J1100a "Motor Vehicle Dimensions," unless otherwise specified.

	SAE Ref. No.	Body Type: 4-Door Sedans	2-Door Coupes	Station Wagons
Width				
Tread — Front	W101	1568 (61.8)		1578 (62.2)
Tread — Rear	W102	1542 (60.8)		1628 (64.1)
Vehicle width	W103	1930 (76.0)		2010 (79.1)
Body width at Sg RP — front	W117	1916 (75.4)		
Vehicle width — front doors open	W120	3443 (135.5)	4101 (161.5)	3443 (135.5)
Vehicle width — rear doors open	W121	2917 (114.9)	- -	2915 (114.8)
Length				
Wheelbase	L101	2945 (116.0)		
Vehicle length	L103	5385 (212.1)		5454 (214.7)
Overhang — front	L104	1016 (40.0)		
Overhang — rear	L105	1424 (56.1)		1493 (58.8)
Upper structure length	L123	2530 (99.6)	2652 (104.4)	3506 (138.0)
Rear wheel C/L "X" coordinate	L127	2475 (97.5)		
Cowl point "X" coordinate	L125	235 (9.2)	236 (9.3)	235 (9.2)
Height*				
Passenger Distribution (frt./rear)	PD1,2,3	2 - 3		
Trunk/Cargo load		0		
Vehicle height	H101	1422 (56.0)	1406 (55.3)	1473 (58.0)
Cowl point to ground	H114	996 (39.2)		1002 (39.4)
Deck point to ground	H138			
Rocker panel front to ground	H112	229 (9.0)		234 (9.2)
Bottom of door closed-front to grd.	H133	283 (11.1)		292 (11.5)
Rocker panel rear to ground	H111	229 (9.0)		240 (9.4)
Bottom of door closed-rear to grd.	H135	283 (11.1)	- -	294 (11.6)
Windshield slope angle	H122	53.5°	54.5°	53.5°
Ground Clearance*				
Front bumper to ground	H102	282 (11.1)		
Rear bumper to ground	H104	334 (13.1)		294 (11.6)
Bumper to ground—front at curb mass (wt.)	H103	328 (12.9)		327 (12.9)
Bumper to ground—rear at curb mass (wt.)	H109	374 (14.7)		320 (12.6)
Angle of approach	H106	16.97°		16.79°
Angle of departure	H107	15.17°		12.24°
Ramp breakover angle	H147	15.31°		15.09°
Rear axle differential to ground	H153	178 (7.0)		191 (7.5)
Min. running ground clearance	H156	147 (5.8)		150 (5.9)
Location of min. run. grd. clear.		Front suspension to ground		

* All vehicle weight and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified.
Manufacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Car and Body Dimensions See Key Sheets for definitions

	SAE Ref. No.	Body Type: 4-Door Sedans		2-Door Coupes		Station Wagons	
Front Compartment		1BL69	1BN69	1BL47	1BN47	1BL35	1BN35
Sg RP front, "X" coordinate	L31	1078 (42.4)					
Effective head room	H61	1002(39.4)	996(39.2)	985(38.8)	979(38.5)	1007(39.6)	1001(39.4)
Effective T Point head room	H75	1007(39.6)	1001(39.4)	990(39.0)	984(38.7)	1012(39.8)	1006(39.6)
Max. eff leg room—accelerator	L34	1076 (42.4)					
Sg RP — front to heel	H30	214 (8.4)					
Design H-point front travel	L17	163 (6.4)					
Shoulder room	W3	1544 (60.8)					
Hip room	W5	1398 (55.0)					
Upper body opening to ground	H50	1285 (50.6)				1307 (51.5)	
Steering Wheel Angle	H18	19.0°					
Back Angle	L40	26.5°					
Rear Compartment							
Sg RP Point couple distance	L50	882 (34.7)		851 (33.5)		844 (33.2)	
Effective head room	H63	970(38.2)	964(38.0)	966(38.0)	960(37.8)	1000(39.4)	994(39.1)
Effective T Point head room	H76	967(38.1)	961(37.8)	962(37.9)	956(37.6)	1004(39.5)	998(39.3)
Min. effective leg room	L51	991 (39.0)		947 (37.3)		958 (37.7)	
Sg RP—second to heel	H31	292 (11.5)		273 (10.7)		307 (12.1)	
Knee clearance	L48	90 (3.5)		70 (2.8)		49 (1.9)	
Compartment room	L3	737 (29.0in)				722 (28.4)	
Shoulder room	W4	1545 (60.8)		1494 (58.8)		1546 (60.9)	
Hip room	W6	1405 (55.3)		1462 (57.6)		1398 (55.0)	
Upper body opening to ground	H51	1300 (51.2)		- -		1315 (51.8)	
Luggage Compartment							
Usable luggage capacity—L (cu. ft.)	V1	572 (20.2 cu.ft.)		560 (19.8 cu.ft.)		- -	
Liftover height	H195	796 (31.3)				- -	

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Car and Body Dimensions See Key Sheets for definitions

	SAE Ref. No.	Body Type: Station Wagons 1BL35	1BN35
Station Wagon — Third Seat			
Shoulder room	W85	1240 (48.8)	
Hip room	W86	1109 (43.7)	
Effective leg room	L86	782 (30.8)	
Effective head room	H86	952 (37.5)	946 (37.2)
Effective T Point head room	H89	954 (37.6)	948 (37.3)
Seat facing direction	SD1	Rearward	
Station Wagon — Cargo Space			
Cargo length—open—front	L200	2790 (109.8)	
Cargo length—open—second	L201	1907 (75.1)	
Cargo length—closed—front	L202	2290 (90.2)	
Cargo length—closed—second	L203	1407 (55.4)	
Cargo length at belt—front	L204	2128 (83.8)	
Cargo length at belt—second	L205	1222 (48.1)	
Cargo width—wheelhouse	W201	1224 (48.2)	
Rear opening width at floor	W203	1238 (48.7)	
Opening width at belt	W204	1224 (48.2)	
Max. rear opening width above belt	W205	988 (38.9)	
Cargo height	H201	763 (30.0)	757 (29.8)
Rear opening height	H202	729 (28.7)	
Tail gate to ground height	H250	741 (29.2)	
Front seat back to load floor height	H197		
Cargo volume index—m^3 ($ft.^3$)	V2	2510L (88.6 cu.ft.)	2490L (87.9 cu.ft.)
Hidden cargo volume—m^3 ($ft.^3$)	V4		
Hatchback — Cargo Space			
Front seat back to load floor height	H197		
Cargo length at front seat Back Height	L208	NOT APPLICABLE	
Cargo length at floor—front	L209		
Cargo volume index—L ($ft.^3$)	V3		
Hidden cargo volume—L ($ft.^3$)	V4		

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•) 2/79

Car and Body Dimensions See Key Sheets for definitions

Body Type

4-Door Sedans	2-Door Coupes	Station Wagons

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
Front	X - Fiducial mark to vertical base grid line-front, measured horizontally from the base grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt. Y - 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. Z - Fiducial mark to horizontal base grid line-front, measured vertically from base grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.
Rear	X - Fiducial mark to vertical base grid line-rear measured horizontally from base grid line to the rear fiducial mark located on rear underbody crossbar. Y - Fiducial mark to centerline of car-rear, width measurement made from centerline of car to fiducial mark located on the rear underbody crossbar. Z - Fiducial mark to horizontal base grid line-rear, measured vertically from base grid line to the rear fiducial mark located on rear underbody crossbar.

	Fiducial Mark Number			
	W21	Y	564 (22.2)	
	L54	X	2729 (107.44)	
● Front	H81	Z	509 (20.0)	
	H161		347.57 (13.68)	348.38 (13.71)
	H163		317.51 (12.50)	324.89 (12.79)
	W22	Y	254 (10.0)	302 (11.9)
	L55	X	5533 (217.83)	5440 (214.17)
● Rear	H82	Z	586 (23.07)	466 (18.35)
	H162		449.32 (17.69)	331.15 (13.04)
	H164		410.22 (16.15)	306.10 (12.05)

*Reference — SAE Recommended Practice, J182a, A Motor Vehicle Fiducial Marks — September, 1973.

MVMA Specifications Form
Passenger Car

Car Line Chevrolet
Model Year 1979 Issued 9/78 Revised (•)

Car and Body Dimensions See Key Sheets for definitions

		Body Type		
	SAE Ref. No.	4-Door Sedan	2-Door Coupe	Station Wagons
Glass				
Backlight slope angle	H121	53.5°	61.5°	32.5°
Windshield slope angle	H122	53.5°	54.5°	53.5°
Tumble-Home	W122	24.5°	25.5°	24.5°
Windshield glass exposed surface area—cm^2 ($in.^2$)	S1	8619 (1335.9)		
Side glass exposed surface area—cm^2 ($in.^2$)	S2	11998 (1859.7)	10885 (1687.2)	19948 (3091.9)
Backlight glass exposed surface area—cm^2 ($in.^2$)	S3	7525 (1166.4)	7564 (1172.4)	4661 (722.5)
Total glass exposed surface area—cm^2 ($in.^2$)	S4	28142 (4362.0)	27068 (4195.5)	33228 (5150.3)
Windshield glass type		Curved - Laminated Plate		
Side glass type		Curved - Tempered Plate		
Backlight glass type		Curved - Tempered Plate		

Lamps and Headlamp Shape*

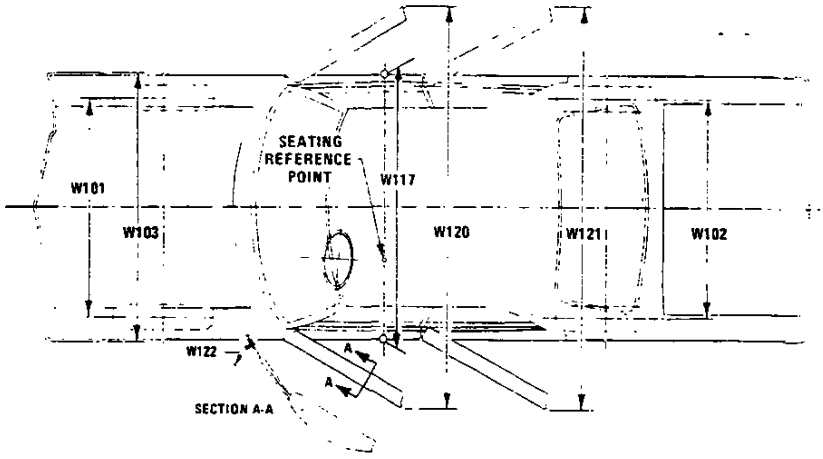
Height above ground to center of bulb or marker	Headlamp (H125)	Highest**	711.7 (28.0)	
		Lowest	---	
	Tail (H126)	Highest	724.7 (28.5)	727.5 (28.7)
		Lowest	---	---
	Sidemarker	Front	671.7 (26.4)	671.2 (26.4)
		Rear	711.5 (28.0)	588.7 (23.2)
Distance from C/L of car to center of bulb	Headlamp	Inside		
		Outside**		
	Tail	Inside		
		Outside		
	Directional	Front		
		Rear		
Headlamp Shape			Rectangular	

*Measured at curb mass (weight).
**If single headlamps are used enter here

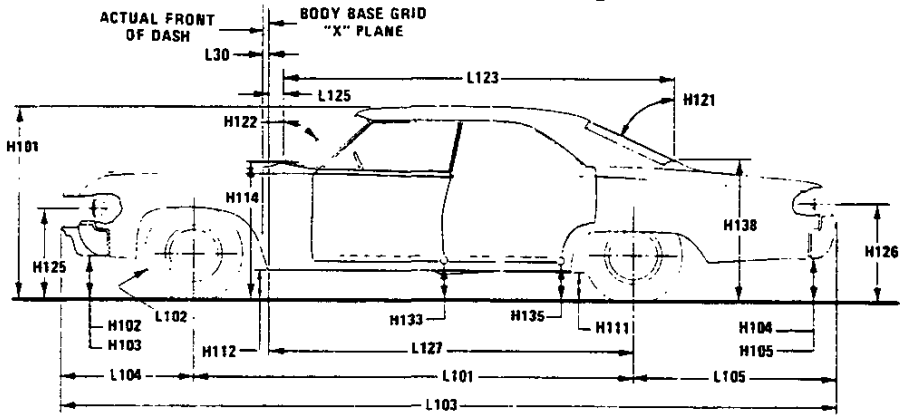
MVMA Specifications Form
Passenger Car

Exterior Car And Body Dimensions — Key Sheet

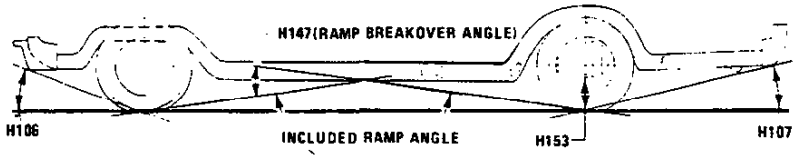
Exterior Width



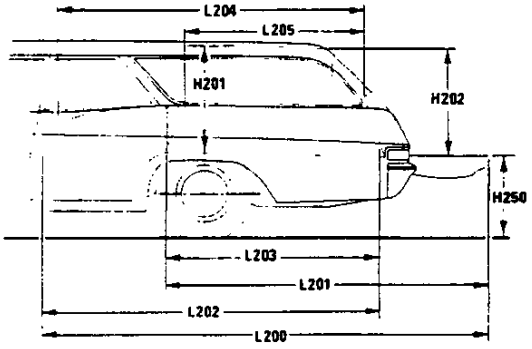
Exterior Length & Height



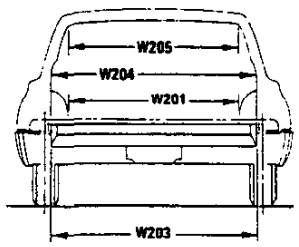
Exterior Ground Clearance

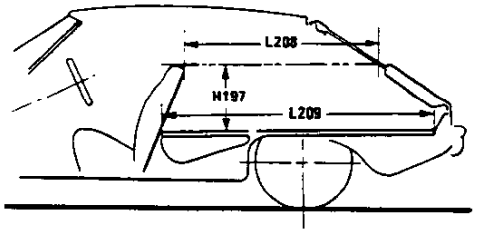


Cargo Space



Station Wagon



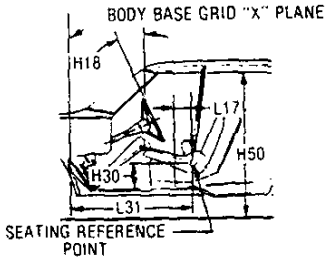


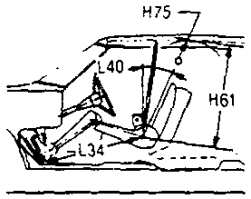
Hatchback

MVMA Specifications Form
Passenger Car

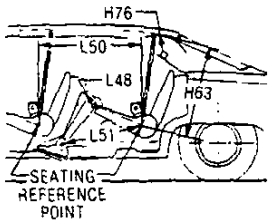
Interior Car And Body Dimensions — Key Sheet

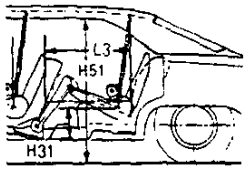
Front Compartment



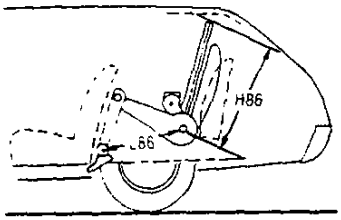


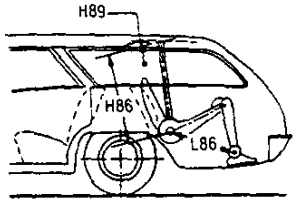
Rear Compartment

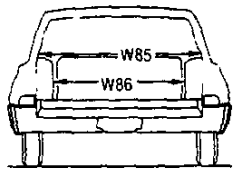




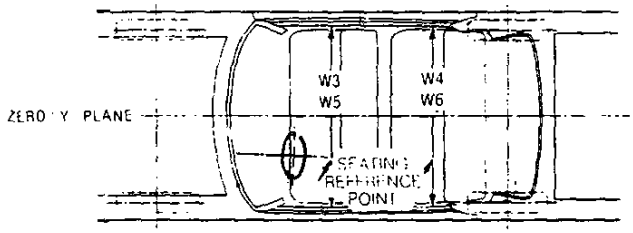
Third Seat







Interior Width



MVMA Specifications Form
Passenger Car

Exterior Car And Body Dimensions — Key Sheet
Dimension Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which —

(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;

(b) Has coordinates established relative to the designed vehicle structure;

(c) Simulates the position of the pivot center of the human torso and thigh; and

(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions

W101 TREAD — FRONT. The dimension measured between the tire centerlines at the ground.

W102 TREAD — REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.

W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

W117 BODY WIDTH AT SgRP — FRONT. The dimension measured laterally between the widest points on the body at the SgRP - front, excluding door handles, applied moldings, or appliques.

W120 VEHICLE WIDTH — FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.

W121 VEHICLE WIDTH — REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.

W122 TUMBLE HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO, at the outside surface of the front door glass at the front SgRP "X" plane.

Length Dimensions

L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash is forward of the zero "X" plane.

L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

L102 TIRE SIZE. As specified by the manufacturer.

L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

L104 OVERHANG — FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

L105 OVERHANG — REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.

L125 COWL POINT "X" COORDINATE.

Height Dimensions

H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

H114 COWL POINT TO GROUND. Measured at zero "Y" plane.

H138 DECK POINT TO GROUND. Measured at zero "Y" plane.

H112 ROCKER PANEL — FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

H132 BOTTOM OF DOOR OPEN — FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.

H111 ROCKER PANEL — REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.

H134 BOTTOM OF DOOR OPEN — REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.

H135 BOTTOM OF DOOR CLOSED — REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.

H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield are running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 18.0 in. (457 mm) long, drawn from the lower DLO to the intersecting point on the windshield.

H125 HEADLAMP TO GROUND. The dimension measured vertically from the centerline of the lowest headlamp lens to ground.

H126 TAILLAMP TO GROUND. The dimension measured vertically from the centerline of the upper bulb to ground.

Ground Clearance Dimensions

H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.

MVMA Specifications Form
Passenger Car

Interior Car And Body Dimensions — Key Sheet
Dimension Definitions

H103 FRONT BUMPER TO GROUND — CURB WEIGHT. Measured in the same manner as H104.

H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.

H105 REAR BUMPER TO GROUND — CURB WEIGHT. Measured in the same manner as H104.

H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius are the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.

H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius are the initial point of structural interference reaward of the rear tire to ground. The limiting component shall be designated.

H147 REAR BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.

H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.

H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

Front Compartment Dimensions

PD1 PASSENGER DISTRIBUTION — FRONT.

L31 SgRP — FRONT "X" COORDINATED.

H61 EFFECTIVE HEAD ROOM — FRONT. The dimension measured along a line 8 deg rear of vertical from the SgRP - front to the headline, plus 4.0 in. (102 mm).

H75 EFFECTIVE T-POINT HEAD ROOM — FRONT. The minimum radius from the T-point to the headlining plus 30 in. (762 mm).

L34 MAXIMUM EFFECTIVE LEG ROOM — ACCELERATOR The dimension measured along a line from the ankle pivot center to the SgRP - front plus 10.0 in. (254 mm) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.

H30 SgRP — FRONT TO HEEL. The dimension measured vertically from the SgRP - front to the accelerator heel point

L17 DESIGN H-POINT — FRONT TRAVEL. The dimension measured horizontally between the design H-point - front in the foremost and rearmost seat track positions.

W3 SHOULDER ROOM — FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP - front within the belt line and 10.0 in. (254 mm) above the SgRP - front

W5 HIP ROOM — FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP - front within 1.0 in. (25 mm) below and 3.0 (76 mm) above the SgRP - front and 3.0 (76 mm) fore and aft of the SgRP - front.

H150 UPPER BODY OPENING TO GROUND — FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP - front "X" plane.

H18 STEERING WHEEL ANGLE. 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 SgRP - front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION — SECOND.

L50 SgRP COUPLE DISTANCE. The dimension measured horizontally from the driver SgRP - front to the SgRP - second.

H63 EFFECTIVE HEAD ROOM — SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP - second to the headlining, plus 4.0 in. (102 mm).

H76 EFFECTIVE T-POINT HEAD ROOM — SECOND. Measured in the same manner as H75.

L51 MINIMUM EFFECTIVE LEG ROOM — SECOND. The dimension measured along a line from the ankle pivot center to the SgRP - second plus 10.0 in. (254 mm).

H31 SgRP — SECOND TO HEEL. The dimension measured vertically from the SgRP - second to the two dimensional device heel point on the depressed floor covering.

L48 KNEE CLEARANCE — SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 2.0 in. (51 mm).

L3 COMPARTMENT ROOM — SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

W4 SHOULDER ROOM — SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP - second within 10.0-16.0 in. (254-406 mm) above the SgRP - second.

W6 HIP ROOM — SECOND. Measured in the same manner as W5.

H51 UPPER BODY OPENING TO GROUND — SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 13.0 in. (330 mm) forward of the SgRP - second.

Luggage Compartment Dimensions

V1 USABLE LUGGAGE CAPACITY — Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100A.

H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Station Wagon - Third Seat Dimensions

PD3 PASSENGER DIRECTION — THIRD.

W85 SHOULDER ROOM — THIRD. Measured in the same manner as W5.

W86 HIP ROOM — THIRD. Measured in the same manner as W5.

L86 EFFECTIVE LEG ROOM — THIRD. The dimension measured along a line from the ankle pivot center to the SgRP - third plus 10.0 in. (254 mm).

H86 EFFECTIVE HEAD ROOM — THIRD. The dimension measured along a line 8 deg from the SgRP - third to the headlining rear of vertical plus a constant of 4.0 in. (102 mm).

H89 EFFECTIVE T-POINT HEAD ROOM — THIRD. Measured in the same manner as H75.

Station Wagon - Cargo Space Dimensions

L200 CARGO LENGTH — OPEN — FRONT The minimum dimension measured longitudinally from the back of

Interior Car And Body Dimensions — Key Sheet
Dimension Definitions

the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane

L201 CARGO LENGTH — OPEN — SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor suface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L202 CARGO LENGTH — CLOSED — FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L203 CARGO LENGTH — CLOSED — SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L204 CARGO LENGTH AT BELT — FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab back panel at the height of the belt, on the zero "Y" plane.

L205 CARGO LENGTH AT BELT — SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.

W201 CARGO WIDTH — WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure the sheet metal.

W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.

W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting intereferences of the rear opening at belt height or top of pick up box.

W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height

H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane.

H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open

H250 TAILGATE TO GROUND (CURB WEIGHT). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

V2 STATION WAGON.
Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = Ft.^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = m^3 \text{ (cubic meter)}$$

V4 HIDDEN CARGO VOLUME. As specified by the manufacturer.

Hatchback — Cargo Space Dimensions

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

H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.

L209 CARGO LENGTH AT FLOOR — FRONT — HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

V3 HATCHBACK.
Measured in inches:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = Ft.^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = m^3 \text{ (cubic meter)}$$

MVMA Specifications Form
Passenger Car

Index