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MODEL IDENTIFICATION

BODY	SERIES NAME	BODY STYLE	MODEL DESIGNATION	PASS OR SEATS
X-CAR	NOVA	4-Dr. Sedan	1XX69	6
		2-Dr. Coupe	1XX27	6
		2-Dr. Hatchback Coupe	1XX17	6
	NOVA CONCOURS	4-Dr. Sedan	1XY69	6
		2-Dr. Coupe	1XY27	6
		2-Dr. Hatchback Coupe	1XY17	6

SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATION SHOWN

VEHICLE IDENTIFICATION NUMBER

Vehicle Designation Interpretation

1 X 27 D 7 W 100001

- 1 — Make ("1" for Chevrolet)
- X — Car line and Series (***)
- 27 — Body Style (last two digits of model Number)
- D — Engine Type (**)
- 7 — Model Year 1977
- W — Assembly Plant (*)
- 100001 — Sequential Number

*W – Willow Run–GMAD
K – Leeds–GMAD
**D – L6-250 (110 H.P.)
U – V8-305 (145 H.P.)
***X – Chevy Nova
L – Van Nuys–GMAD
T – Tarrytown–GMAD
L – V8-350 (170 H.P.)

EXAMPLE: The twenty-fifth Chevrolet vehicle built at Chevrolet–Willow Run if it were a 1XX27 model (Nova Coupe) with a L6-250 (110 H.P.) engine would bear VIN Number 1X27D7W100025.

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

TRANSMISSION IDENTIFICATION

Example: S7E01

Type Designation	Source Designation	Model Year 1977	Production° Month & Date
ZC	S (Muncie)	7	E01D*

ZC	3-Speed	L-6 and V-8 engine	S - Muncie
ZM	4-Speed	V-8 engine	P - Muncie
WK	Turbo Hydra-matic	L-6 engine	D - Parma
AG	Turbo Hydra-matic	V-8 engine	Y - Toledo

Location:

3-Speed . . . . . Stamped on top right hand side of transmission case.

4-Speed . . . . . Stamped on top right hand side of transmission case.

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

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

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

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

ENGINE IDENTIFICATION

Example: F1210CCD

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

250 Cubic Inch L-6 Base Engine

CCD - Regular engine, 3-speed
CCF - Regular engine, Turbo Hydra-matic (Chevrolet)

305 Cubic Inch V-8 (RPO LG3)

CPA - Optional engine, 3-speed
CPC - Optional engine, Turbo Hydra-matic (Chevrolet)

350 Cubic Inch V-8 (RPO LM1)

CKS - Optional engine, 4-speed
CKM - Optional engine, Turbo Hydra-matic (Chevrolet)

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

TZ – 2.56 Axle
TY – 2.73 Axle
TX – 3.08 Axle

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

See Power Train Section for additional information.

EXTERIOR EQUIPMENT

	Standard 1XX00 (17, 27, 69)	Concours 1XY00 (17, 27, 69)	Ext. Decor RPO ZJ5 RPO ZJ5 (17, 27, 69)
FRONT			
Bumper Filler Panel, Silver Metallic Finish (C)	X		X
Bumper Filler Panel, Chromed Center Section with Body Colored Outer Ends (C)		X-N	
Bumper Face Bar, Bright Chrome Plated (C)	X	X	X
Grille, Plastic, Chrome Plated (C)	X	X-N	X
Parking Lamps, Grille Mounted, Vertical, Amber Lens with Chevrolet Emblem (C)	X		X
Headlamp Bezels, Dark Argent With Bright Trim Molding (C)	X		X
Nameplate, "Nova", on Grille L.H. Lower Corner (C)	X		X
Parking Lamps, Grille Mounted, Vertical, Clear Lens with Black "C" Insignia (C)		X-N	
Headlamp Bezels, Chrome Plated (C)		X-N	
Fender Extensions, Front, Specific (C)		X-N	
Moldings, Bright, Horizontal Along Hood Front Lower Edge with Black "Chevrolet" Script Identification) and at Top and Outboard Sides of Fender Extensions (C)		X-N	
Hood Ornament, "C" Insignia, Upright Mounted (C)		X-N	
Bumper Guards, Front (C)		X	
Bumper Impact Strips, Black (C)		X	
REAR			
Molding, Rear Window Reveal, Bright (F)	X	X	X
Rear Lamps (In Rear End Panel), Rectangular, Two-Section With Back-Up Lamp Integral with Inboard Lamp (F & C)	X		X
Rear Lamps, Rectangular, Three-Section with Bright Trim and Black "C" Insignia on Back-Up Lamp (F & C)		X-N	
Bumper Face Bar, Bright Chrome Plated (C)	X	X	X
Bumper Filler Panel, Body Colored, Pliable (C)	X	X	X
Nameplate, "Chevrolet", on Deck Lid, Centered Above R.H. Outboard Tail Lamp (F)	X		X
Nameplate, "Nova", on Rear End Panel at Right of License (F)	X		X
Nameplate, "Chevrolet Concours" on Deck lid at R.H. End (F)		X-N	
Bumper Impact Strips, Black (C)		X	
Bumper Guards, Rear (C)		X	
SIDE			
Glass Styling, Full Front Door (F)	X	X	X
Door Handles, Push-Button, Bright Chrome (F)	X	X	X
Marker Lamps, Front, Bright Bezel and Amber Lens (C)	X	X	X
Marker Lamps, Rear, Bright Bezel and Red Lens (F)	X	X	X
Mirror, Outside Rear View, Rectangular, L.H. (C)	X	X	X
Nameplate "Nova" or "Concours" Script, on Front Fender (C)	X	X	X
Hub Caps (C)	X		X
Glass Separation, Rear Door, Black (69 Only) (F)	X	X	
Molding, Side Window Frame, Bright (Same as RPO B90) (F)		X	O
Nameplate, "Hatchback", on Sail Panel (17 only) (F)	X	X	X
Molding, Roof Drip, Bright (F)		X	
Molding, Wheel Opening (F & C)		X-N	
Wheel Cover, (Specific for Concours) (C)		X-N	
Molding, Fender and Rocker Lower (F & C)		X	
Body Side Louvers, Dark Argent Accented (17 & 27 Only) (C)		X	
Molding, Body Side, with Black Accent (C)			O

NOTE: "O" indicates specific feature of optional package.
"N" indicates new for 1977.
(C) = Chevrolet item, (F) = Fisher item.

INTERIOR EQUIPMENT

SEATS AND FLOOR COVERING	Standard 1XX00 17, 27, 69	Custom Interior RPO ZJ1 1XX00 27, 69	Concours 1XY00 17, 27, 69
Front Seat Cushion with Full Foam Pad (New Trim Design) (F)	X	X	
Rear Seat Cushion with Full Foam Pad (New Trim Design) (F)	X	X	
Bench Type Front and Rear Seats with Custom Vinyl or Cloth Covering (New Trim Design) (F)		O	
Rear Seat Cushion and Back, Specific with Tie-Downs (F)			X
Full-Foam Front Bucket Seats with Integral Head Restraint and Shoulder Belt Guide (RPO) (F)		O	
Front Bench Seat With Vinyl Trim and Folding Arm Rest Having Soft Foam Sewn Trim, Specific Buns and Seat Back Panels (F)			X
Black Front Seat Adjuster Handle (F)	X	X	X
Black Front Seat Back Release Latch (F)	X	X	X
Folding Rear Seat with Single-Point Hinge, Hatchback Coupe Only (F)	X		X
Bright Rear Seat Back Release Latch, Hatchback Coupe Only (F)	X		X
Front Bench Seat Head Restraints with Shoulder Belt Guide (F)	X	X	
Front and Rear Seat Belts (Base), Black, with Black Die-Cast Metal Buckles, Locking Retractors (F)	X	X	X
Front and Rear Seat Belts (RPO), Color-Coordinated Belts with Color-Keyed Die-Cast Metal Buckles, Locking Retainers (F)	X	X	X
Vinyl-On-Felt Treatment for Storage Compartment Under Load Floor – Hatchback Coupe Only (F)	X		X
Trim Color Seat Hinge Arm Cover (F) (Base-Black Paint)		X	X
High Level Acoustic Package (F & C)		O	X
One-Piece Hood Insulator (C)		O	X
Cut-Pile Carpet in Passenger Compartment (F)	X	X	X
Luggage Compartment Mat (Foam-Back Vinyl) (F)	X	X	
Luggage Compartment, Mat-Full Width, Foam-Backed Vinyl (F)			X
Carpet Load Floor Covering – Hatchback Coupe Only (F)	X		X

NOTES: (C) Chevrolet Item, (F) Fisher Item
"O" indicates specific feature of optional package

INTERIOR EQUIPMENT

INSTRUMENT PANEL AND STEERING WHEEL	Standard 1XX00 17, 27, 69	Custom Interior RPO ZJ1 1XX00 27, 69	Concours 1XY00 17, 27, 69
Soft Black Turn Signal and Transmission Shift Lever Knobs (C)	X	X	X
Steering Column Ignition Switch with Integral Steering Wheel and Transmission Lock (C)	X	X	X
Black T-Handle Parking Brake Release (C)	X	X	X
Blended Air Heater (C)	X	X	X
Two-Speed Windshield Wiper/Washer Illuminated Control (C)	X	X	X
Ash Tray (C)	X	X	X
Speedometer, Odometer and Fuel Gage (C)	X-N	X-N	X-N
Instrument Panel Pad, Color Coordinated (C)	X-N	X-N	X-N
Clock Hole Cover Plate (C)	X-N	X-N	X-N
Radio Hole Cover Plate and Light Switch/Windshield Wiper Panel (Color-Coordinated) (C)	X-N		
Radio Hole Cover Plate and Light Switch/Windshield Wiper Panel (Woodgrain) (C)		O-N	X-N
Glove Compartment Door Lock (C)	X	X	X
Black, Soft Vinyl Steering Wheel (C)	X	X	
Colored Steering Wheel, Soft Vinyl with Wood Grain Insert (C)			X-N
Soft Black Steering Wheel Shroud, Black Insert with "Nova" Nameplate	X	X	
"Concours" Insert and Woodgrain Accent on Steering Wheel Shroud (C)			X-N
Heater Control Panel Light (C)	X	X	X
Temperature, Generator, Oil Pressure and Brake Warning Lights (C)	X-N	X-N	X-N
High-Beam and Turn Signal Indicators (C)	X-N	X-N	X-N
Black Cowl Vent Control Knobs (F)	X	X	X
Bright finish Instrument Panel Light Control Knob (C)	X	X	
Bright finish Radio Control Knobs – RPO (C)	X	X	
Bright Radio and Light Switch Control Knobs with Wood Grain Applique (C)		O	X
Black Steering Column and Hazard Flasher Knob (C)	X	X	
Color-Coordinated Steering Column (C)			X
"Fasten Seat Belt" Lamp in Instrument Cluster (C)	X-N	X-N	X-N
Glove Compartment Light (C)		O	X
Additional Bright Framing on Instrument Cluster Carrier (C)		X-N	X-N
Instrument Cluster with Wood Grain Accents (C)		O-N	X-N
Horizontal, Rectangular Wood Grain Trim Panel with "C" insignia, extending along R.H. side of Instrument Panel Pad			X-N
Cigar Lighter (C)		O	X

NOTES: (C) Chevrolet Item, (F) Fisher Item
"O" indicates specific feature of optional package
"N" indicates new for 1977

INTERIOR EQUIPMENT

	Standard 1XX00 17, 27, 69	Custom Interior RPO ZJ1 1XX00 27, 69	Concours 1XY00 17, 27, 69
ROOF AND PILLARS			
Hardboard Formed Headlining, Perforated (F)	X		
Scored and Folded Foam Core with Non-Perforated Cloth Covered Headlining (F)		X-N	X-N
Trim Color Windshield, Roof Rail and Rear Window Moldings (F)	X	X	X
Black Rear View Mirror Support (F)	X	X	X
Padded Sunshades with Vinyl Covering (F)	X-N		
Padded Sunshades with Cloth Covering (F)		O-N	X-N
Trim Color Plastic Coat Hooks (F)	X	X	X
Left Front Door Jamb Switch (F)	X	X	X
Right Front Door Jamb Switch (F)		O	X
Front Seat Shoulder Belt Motion Sensing Retractor Reels with Color Coordinated Covers (F)	X	X	X
Front Shoulder Belts (base), Black, Non-Detachable (F)	X	X	X
Front Shoulder Belts (RPO), Color-Coordinated, Non-Detachable (F)	X	X	X
Center Dome Lamp with Bright Bezel (F)	X	X	X
Black, Textured, Vinyl-Clad 8-Inch Rear View Mirror Bonded to Windshield-Std. Type (F)	X		
Black, Smooth, Vinyl Clad 10-Inch Day-Night Rear View Mirror with Black Padded Edge, Bonded to Windshield (F)		O	X
DOOR AND QUARTER PANEL			
Color-Coordinated Door Pull Strap attached to Rear Door Trim Panel – 69 Only (F)	X	X	
Front Door Padded Armrest with Integral Door Pull Handle (F)	X	X	X
Flush Mounted Door Opening Handles, in an Upper, Forward Location (F)	X	X	X
High Profile Window Regulators with Clear, Blue Tinted Plastic Control Knobs (F)	X	X	X
Bright Door Lock Buttons (F)	X	X	X
Rear Door Padded Armrest with Ash Tray and Integral Door *Pull Handle* (F)			X
Deluxe Door Trim Panel with Horizontal Simulated Wood Grain Strip (F)		O-M	
Sewn Cloth and Vinyl Front and Rear Door Trim Pad with Map Pockets on Front Door, Carpeted Lower Portion and *Woodgrain Inserts* (F)			X-M
Rear Quarter Arm Rest with Ash Tray (F)		O	X
Plastic Quarter Panel Trim (Coupes) (F)	X	X	
Soft-Covered Quarter Panel Trim (Coupes) (F)			X
Rear Door Hold Open Linkage (F)			X

NOTES: (C) Chevrolet Item, (F) Fisher Item
"O" indicates specific feature of optional package
"N" indicates new for 1977
"M" indicates modified for 1977, by addition of new wood grain pattern

EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC
Air conditioning, Four-Season: (See page 13 for content)	C60	
Battery, heavy duty	UA1	
Belts, seat and shoulder: in addition to or replacing standard belts.		
Deluxe seat belts and front seat shoulder harness	AK1	
6 Seat and 2 shoulder belts (Bench front seat) or		
5 Seat and 2 shoulder belts (RPO A51 or AR5 bucket front seats), color keyed to interior. Not available with black interior.		
Console, floor – (RPO A51 required) (Requires AR5 seats with 1XY00 models)	D55	
Front bucket seats – standard or custom trim – 1XX27 coupes only	A51	
Glass, Soft-Ray tinted: all windows	A01	
Individual, wide back front seats (1XY00 models only)	AR5	
Horns, dual	U05	
Instrumentation, special: (Tachometer package) includes tachometer, voltmeter, temperature gage and clock	U14	
Instrumentation special (Econominder package) includes econominder, voltmeter and temperature gage	UF7	
Lighting, auxiliary:	ZJ9	
Courtesy lights		
Glove compartment light		ACC
Luggage compartment light		ACC
Ash tray light		
Underhood light		ACC
Headlamp reminder buzzer		
Automatic rear compartment lamp switch (1XX-1XY17 only)		
Mirror, vanity visor lighted		ACC
Mirror, rear view, day/night (1XX00 models only)	D31	
Molding, wheel opening (1XX00 models only)	B96	
Moldings, body side (Not available with RPO Z26 or 1XY00 models)	B84	
Moldings, wide, body side (Not available with 1XX00 models)	BW2	
Moldings, roof drip (1XX00 models only)	B80	
Radiator, heavy duty	V01	
Radio equipment: Radios, pushbutton – Includes concealed w/s antenna		
AM Radio	U63	ACC
AM/FM Radio	U69	ACC
AM Radio and Stereo Tape player	UM1	
AM/FM Stereo Radio and Tape player	UM2	
Speaker, rear seat	U80	ACC
Windshield antenna (When no radio is ordered)	U76	
Roof cover, vinyl (Padded type)	C09	
Two-Tone Paint (Not available with RPO Z26)	D99	
Pin striping	D85	
Shift lever, floor mounted-base 3-speed transmission only	M11	
Speed and cruise control	K30	
Steering wheel, Comfortilt (Available for all except steering column mounted 3-speed manual transmission)	N33	
Suspension, heavy duty front and rear	F40	
Suspension, sports, front and rear	F41	
Tire, space saver spare (E78-14 or F78-14 B/W on specific 14 x 5 wheel) std. equipment on hatchback model	N65	
Wheel covers, full (not available with 1XY00 models)	P01	
Trim cover, wire wheel (Simulated)	N95	
Wheels, rally (14 x 6 or 14 x 7 depending on tire size) (Not available on Concours)	ZJ7	
Wheels, rally (14 x 7) body colored, available on Concours only	ZN5	
Windshield wipers – intermittent	C04	
Window – swing out rear quarter (17-27 models only)	A20	

FACTORY-INSTALLED REGULAR PRODUCTION TIRES

FR78 x 14-steel belted – radial ply, White lettered	QBT
FR78 x 14-steel belted – radial ply, Blackwall (1XX00 models only)	QDV
FR78 x 14-steel belted – radial ply, White stripe	QDW
E78 x 14B-bias belted – highway Blackwall (1XX00 models only)	QEG
E78 x 14B-bias belted – Whitewall, single stripe (1XX00 models only)	QEH

EQUIPMENT	RPO	ACC
FEATURE ITEMS		
Deluxe bumpers, front and rear impact strips, front and rear bumper guards (Available on 1XX models only)	VE5	
Color-keyed floor mats – 2 Front, 2 Rear	B37	ACC
Door edge guards	B93	ACC
Electric clock	U35	ACC
L.H. outside remote-control rear view mirror	D33	ACC
Sport outside rear view mirrors, LH remote control and RH manual (body color)	D35	
Rear window defogger (Forced air)	C50	ACC
Pin striping, lower body side	D85	
MODEL OPTIONS		
Cabriolet formal roof coupe equipment (See page 10 for content)	AB8	
Custom interior equipment (See page 11 for content)	ZJ1	
Interior decor and convenience group (See page 11 for content)	ZJ3	
Exterior decor package (See page 12 for content)	ZJ5	
Custom appearance group (See page 12 for content)	BW6	
POWER TEAMS		
Axle, positraction	G80	
5.0 Litre 305 V8	LG3	
Turbo-Fire 350 V8	LM1	
4-Speed manual transmission – wide ratio (LM1 only)	M20	
Turbo Hydra-matic automatic transmission	M38	
POWER ASSISTS		
Brakes, power	J50	
Steering, power: variable ratio	N41	
Power door lock system	AU3	
Power windows	A31	

RPO AB8

AB8 CABRIOLET FORMAL ROOF, COUPE EQUIPMENT

MODEL AVAILABILITY

Nova (1XY27 Coupe Model Only)

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

EXTERIOR

Plastic exterior filler panel insert forming formal side window opening.
Specific quarter window glass.
Landau style, fully padded vinyl top.
Landau molding treatment around periphery of vinyl Landau cover (right center section with bead at outer edges color keyed to vinyl top).
Bright rear window reveal molding (same as base).
"Cabriolet" script. Nameplate on sail panel.

INTERIOR

Quarter upper trim finishing panel above belt.
Air exhaust system in body lock pillar.

ZJ1 CUSTOM INTERIOR EQUIPMENT

MODEL AVAILABILITY

Nova (1XX27-69)

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

INTERIOR

Custom seats and door trim panels (New butterfly walnut woodgrain pattern on doors)
Woodgrain applique on instrument panel (New butterfly walnut pattern)
RPO ZJ3 interior decor and convenience equipment
Additional bright framing on instrument cluster carrier
Additional hood and body insulation
New folded foam core with non-perforated cloth covered headlining

ZJ3 INTERIOR DECOR AND CONVENIENCE GROUP

MODEL AVAILABILITY

Nova (1XX17-27-69), (Included with Concours models)

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

INTERIOR

Right front door jamb switch, for dome lamp operation
Glove box lamp
Mirror 10" prismatic inside rear view
Cigarette lighter
Bright framing on instrument cluster carrier

RPO ZJ5 AND BW6

ZJ5 EXTERIOR DECOR PACKAGE *

MODEL AVAILABILITY

Nova (1XX17-27-69)

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

EXTERIOR

Body side moldings (RPO B84)
Bright side window and door frame moldings (RPO B90)

* Not available on Concours models

BW6 CUSTOM APPEARANCE GROUP

MODEL AVAILABILITY

Nova (1XY17-27-69)

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

EXTERIOR

Bright center pillar molding (4-door sedan only)
Wide body side molding with color keyed vinyl insert
Bright wide lower body moldings forward of front wheel opening and rearward of rear wheel opening

FOUR SEASON (RPO C60)

Integral air cooling and heater system. Manually controlled by two vertical levers on instrument control panel, plus 4-speed fan switch. Right lever operates compressor and air selector doors; and directs air to defroster outlets; left lever controls temperature of air flow from instrument panel outlets.

BASIC COMPONENTS

Control panel, evaporator, blower, condenser, receiver-dehydrator, refrigerant (freon) tank, air intake assembly and duct assembly for both systems.

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

CHASSIS

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

POWER TRAINS

Fan Blade	7 blade
Fan Clutch	Thermomodulated fluid coupling
Crankshaft Pulley	Single three groove pulley
Water Pump & Fan Pulley	Single
Compressor & Crankshaft Belt	One
Generator	55 Ampere
Radiator	Heavier duty

RPO Z26 RALLY OPTION

Z26 NOVA RALLY OPTION

MODEL AVAILABILITY

Standard Nova (1XX17, 27)

POWER TRAIN AVAILABILITY

(Same as standard models)

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

EXTERIOR

Front

Black-finished headlamp bezels with bright perimeter molding.
Grille chrome plated, Diamond pattern.
Emblem "Nova Rally", multi-colored, in center of grille.
Parking lamps, specific, horizontal with bright perimeter molding.

Side

Triple-band striping on lower body and over wheel openings (three colors available).
Wheels Rally, 14 x 6, painted to match striping (argent when striping is black)
Includes bright hub, lug nuts and trim rings.
"Nova Rally" emblem, multi-color, on fender.

Rear

Triple-band striping on rear end panel (three colors available). Black, white and gold.
"Chevrolet" block letter nameplate on deck lid.

* The following options are restricted when the Nova Rally option is selected.

RPO B84 Body side moldings.
RPO B96 Wheel opening moldings.
RPO D85 Pin striping.
RPO D99 Two-tone paint.
RPO N95 Wire wheel trim covers.
RPO P01 Wheel trim covers.

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSIONS

ENGINE	CARBURETION	TRANSMISSION	TOTAL GEAR REDUCTION*					AXLE RATIO
			1st	2nd	3rd	4th	Rev	
250 Cu.In. L-6 Standard	Single Barrel	3-Speed	8.49	5.02	2.73	—	8.79	2.73
305 Cu.In. V-8 RPO LG3	2-Barrel	3-Speed	8.49	5.02	2.73	—	8.79	2.73
350 Cu.In. V-8 RPO LM1	4-Barrel	4-Speed	8.78	6.22	4.16	3.08	8.78	3.08

WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
250 Cu.In. L-6 Standard	Turbo *Hydra-matic*	Drive	13.76:1 - 2.73:1	2.73:1
		Low	13.76:1 - 6.88:1	
		Second	13.76:1 - 4.15:1	
		Reverse	10.59:1 - 5.30:1	
305 Cu.In. V-8 RPO LG3	Turbo Hydra-matic	Drive	16.49:1 - 2.56:1	2.56:1
		Low	16.49:1 - 7.01:1	
		Second	16.49:1 - 4.02:1	
		Reverse	12.44:1 - 5.30:1	
350 Cu.In. V-8 RPO LM1	Turbo Hydra-matic	Drive	16.49:1 - 2.56:1	2.56:1
		Low	16.49:1 - 7.01:1	
		Second	16.49:1 - 4.02:1	
		Reverse	12.44:1 - 5.30:1	

*Axle ratio x transmission ratio.

GENERAL DATA

Engine Type		L-6 OHV	V-8 OHV	
Piston Displacement (Cu. In.)		250	305	350
Availability		Base (L22)	LG3	LM1
Number of Cylinders		Six	Eight	
Bore (nominal)		3.875	3.736	4.00
Stroke (nominal)		3.53	3.48	
Compression Ratio		8.3:1	8.50:1	
Taxable (SAE) 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	Manual (in neutral)	650	800	
	Turbo Hydra-matic (in drive)	550	600	
Compress. Press. (PSI) @ Cranking Speed, Engine Hot		130	160	
Power Plant Mounting	Front	Two, preloaded captive cushion type		
	Rear	One, shear type		
Measurements	Fan to rear of engine block	35.78	31.55	
	Top of air cleaner to bottom of oil pan	27.22	29.60	28.52
	Width - including air cleaner (a)	17.76	28.53	

(a) L6 engine - : (oil filter to exhaust manifold); V8 engines (arrow exhaust manifold)

ADVERTISED ENGINE RATING

Engine Designation	Availability	Carburetor	Federal		Calif.	Net Brake HP @ RPM	Net Torque @ RPM (lb. ft.)
			Below 4000 Ft.	Above 4000 Ft.			
L6 250 Cu.In.	RPO L22	Single Bbl.	X	X		110 @ 3800	195 @ 1600
					X	90 @ 3600	180 @ 1600
V8 305 Cu.In.	RPO LG3	Two Bbl.	X			145 @ 3800	245 @ 2400
					X	135 @ 3800	240 @ 2000
V8 350 Cu.In.	RPO LM1	Four Bbl.	X			170 @ 3800	270 @ 2400
				X	X	160 @ 3800	260 @ 2400

L-6 250 CU. IN. ENGINE

Transmission		3-Speed	Turbo Hydra-matic
Rear Axle Ratio		2.73:1	
Tire Size		E78 x 14	
Crankshaft Revolutions per Mile		2173.1	
Crankshaft RPM @ 1 MPH	Low	112.6	91.2
	Second	66.6	55.0
	Third	36.2	36.2 (direct)
	Reverse	116.6	70.2
Piston Travel (ft/mile)		1278.5	

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

Transmission		3-Speed	Turbo Hydra-matic
Rear Axle Ratio		2.73:1	2.56:1
Tire Size		E78 x 14	
Crankshaft Revolutions per Mile		2173.1	2037.8
Crankshaft RPM @ 1 MPH	Low	112.6	93.2
	Second	66.6	53.4
	Third	36.2	34.0
	Reverse	116.6	70.4
Piston Travel (ft/mile)		1260.4	1181.9

V8-350 CU. IN. ENGINE (RPO LM1)

Transmission		4-Speed	Turbo Hydra-matic
Rear Axle Ratio		3.08:1	2.56:1
Tire Size		E78 x 14	
Crankshaft Revolutions per Mile		2451.7	2037.8
Crankshaft RPM @ 1 MPH	Low	116.6	85.7
	Second	82.6	51.7
	Third	55.2	34.0
	Fourth	40.9	-
	Reverse	116.6	66.0
Piston Travel (ft/mile)		1422.0	1181.9

CYLINDER BLOCK
- Material . . . . . Cast alloy iron
- Bore Diameter
  - L6-250 Cu. In. 3.8745-3.8775
  - V8-305 Cu. In. 3.7355-3.7385
  - V8-350 Cu. In. 3.9995-4.0025
- Bearing Caps (Number, material and attachment)
  - L6-250 Cu. In. . . . . 7, cast iron, 2-bolt
  - V8-305 & 350 Cu. In. . . . . 5, cast iron, 2-bolt
- Water Jacket . . . . . Full length around each cylinder
- Bore Spacing (Centerline to Centerline) 4.40

CYLINDER HEAD
- Material . . . . . High chrome cast alloy iron
- Bolt No. & Size
  - L6-250 Cu. In. . . . . 14; .500 dia. 13 threads/in.
  - V8-305 & 350 Cu. In. . 34; .4375 dia. 14 threads/in.

COMBUSTION CHAMBER VOLUME
(Total chamber volume of assembled engine with piston at top center)
- L6-250 Cu. In. . . . . 5.77 Cu. In.
- V8-305 Cu. In. . . . . 5.13 Cu. In.
- V8-350 Cu. In. . . . . 6.27 Cu. In.

INLET MANIFOLD
- Material . . . . . Cast alloy iron
- Type
  - L6-250 Cu. In. . . . . Integral with cylinder head
  - V8-305 & 350 Cu. In. . . . . 8 port, double deck

EXHAUST MANIFOLD
- Material . . . . . Cast alloy iron
- Type
  - L6-250 Cu. In. . 4 port, underslung center downtake
  - V8-305 & 350 Cu. In. . . . . Dual, 4 port, center downtake
- Outlet Diameter (Nominal) 2.0

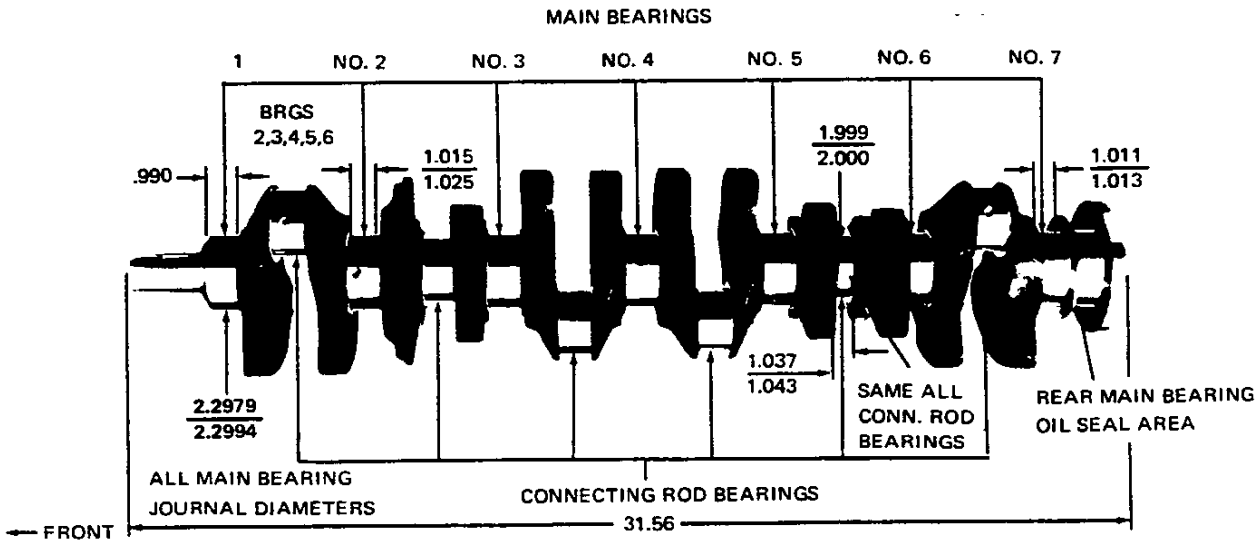
CRANKSHAFT
- Material
  - L6-250 Cu. In. . . . . Cast nodular iron
  - V8-305 & 350 Cu. In. . . . . Cast nodular iron
- End Play
  - L6-250 Cu. In. 002-.006
  - V8-305 & 350 Cu. In. 002-.007
- Counter Weights
  - L6-250 Cu. In. 12
  - V8-305 & 350 Cu. In. 6
- Crank Arm Length
  - L6-250 Cu. In. 1.765
  - V8-305 Cu. In. 1.740
  - V8-350 Cu. In. 1.740
- Torsional Damper . . . . . Rubber mounted inertia
- Timing Gear
  - L6-250 Cu. In. . . . . Cast iron
  - V8-305 & 350 Cu. In. . . . . Sintered iron
- Pulley Pitch Diameter 6.64

MAIN BEARINGS
- Material . . . . . Steel backed insert; (copper lead alloy or premium aluminum lining selected for specific engine application)
- Type . . . . . Precision removable
  Thrust Against Bearing No. – No. 5 (V8); No. 7 (L6)
- Clearance
  - L6-250 Cu. In. 0003-.0029
  - V8-305 & 350 Cu. In.
    - No. 1 . . . . . .0008-.0020
    - No. 2, 3 & 4 . . . . . .0011-.0023
    - No. 5 . . . . . .0017-.0033

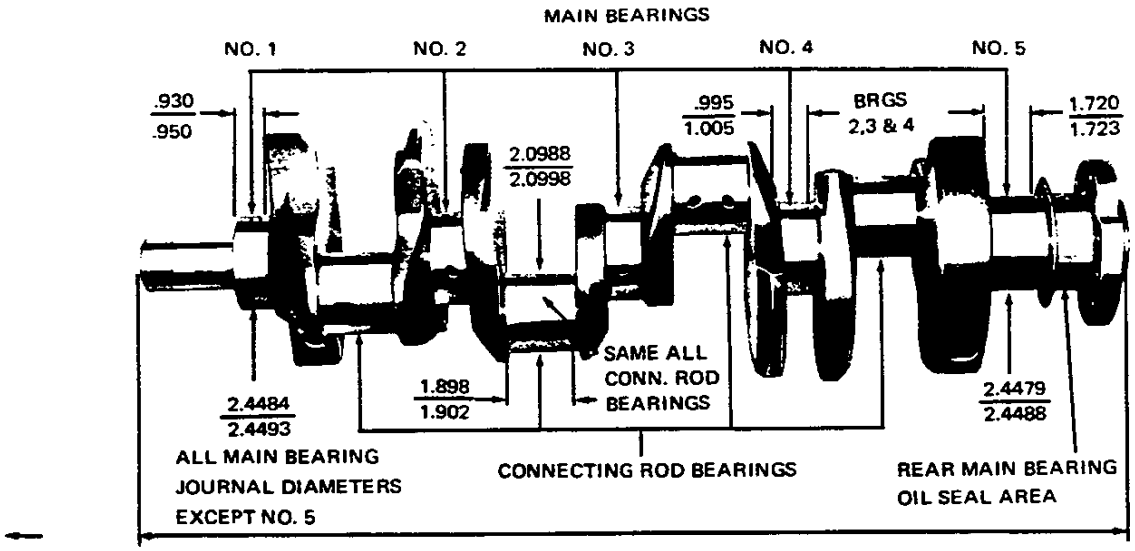
Dimensions	Theoretical Inner Dia.	Effective Length	Projected Area
L6-250 Cu. In.			
Bearing No. 1-6	2.2999	.752	1.7295
Bearing No. 7	2.2999	.760	1.7479
V8-305 & 350 Cu. In.			
Bearing No. 1-4	2.4502	.752	1.8425
Bearing No. 5	2.4508	1.180	2.8919

CRANKSHAFTS AND BEARINGS

250 CUBIC INCH SIX CYLINDER ENGINE



305 AND 350 CUBIC INCH V-8 ENGINES



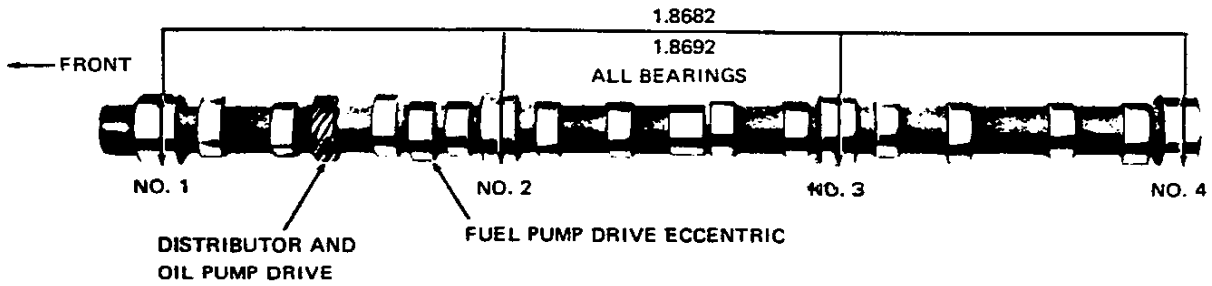
CAMSHAFT
- Material ..... Cast alloy iron
- Drive
  - L6-250 Cu. In. ..... Aluminum alloy
  - V8-305 & 350 Cu. In. ..... Nylon teeth with aluminum head
- Lobe Lift
  - L6-250 Cu.In. ..... .2217 Inlet; .2315 Exhaust
  - V8-305 Cu.In. ..... .2484 Inlet; .2733 Exhaust
  - V8-350 Cu.In. ..... .2600 Inlet; .2733 Exhaust
- Bearings ..... Steel backed babbitt

VALVE TRAIN
- Type ..... Individually mounted, overhead rocker arms, push rod actuated
- Lifters ..... Hydraulic
- Rocker arms
  - Ratio
    - L6-250 Cu. In. 1.75:1
    - V8-305 & 350 Cu. In. 1.50:1
- Push rods
  - Type ..... Hollow steel
  - Ends ..... Hardened
- Rotators (V8-305 & 350 Cu.In.) ..... Exhaust

VALVE SPRINGS
- Diameter (I.D.)
  - L6-250 Cu. In. ..... .872-.888
  - V8-305 & 350 Cu. In. ..... .868-.884
- Installed length (lb. @ in.)
  - Valves closed
    - L6-250 Cu. In. ..... 76-86 @ 1.66
    - V8-305 & 350 Cu. In.
      - Inlet ..... 76-84 @ 1.70
      - Exhaust ..... 76-84 @ 1.61
  - Valves opened
    - L6-250 Cu.In. ..... 170-180 @ 1.26
    - V8-305 & 350 Cu. In.
      - Inlet ..... 194-206 @ 1.25
      - Exhaust ..... 194-206 @ 1.16
- Free length
  - L6-250 Cu. In. 1.90
  - V8-305 & 350 Cu. In. 2.03
- Valve spring damper
  - L6-250 Cu. In. ..... None
  - V8-305 & 350 Cu. In. ..... Flat steel, 4 coils
- Oil shield ..... Steel cup

CAMSHAFT AND BEARINGS

250 CUBIC INCH L-6 ENGINE



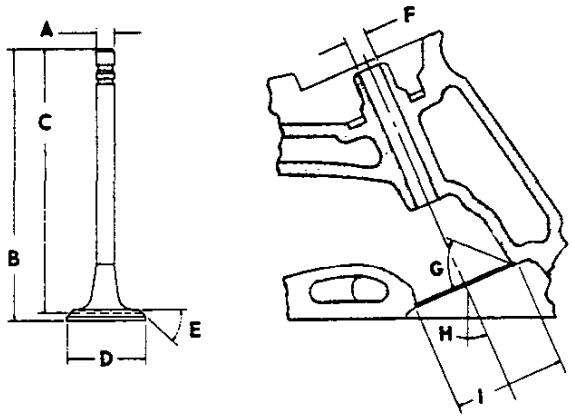
PRINCIPAL COMPONENTS

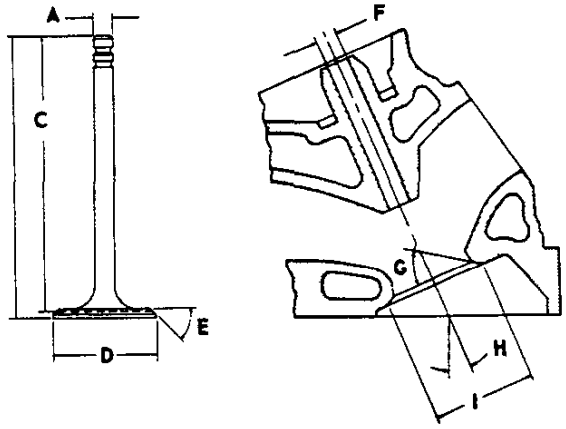
INLET VALVES

Material	Alloy steel
Coating	
L6-250 & V8-305 Cu.In.	Aluminized face
V8-350 Cu.In.	None
All stems	Chrome flash

EXHAUST VALVES

Material	High alloy steel
Coating	
L6-250 Cu. In.	Aluminized face
V8-305 & 350 Cu. In.	Aluminized face
All stems	Chrome flash





A – Stem diameter	.3410-.3417
B – Overall length	
L6-250 Cu. In.	4.902-4.922
V8-305 Cu. In.	4.902-4.922
V8-350 Cu. In.	4.870-4.889
C – Gage length	4.785-4.795
D – Overall head diameter	
L6-250 Cu. In.	1.715-1.725
V8-305 Cu. In.	1.715-1.725
V8-350 Cu. In.	1.935-1.945
E – Angle of face	45°
F – Guide diameter	.3427-.3437
G – Angle of seat	46°
H – Valve angle	
L6-250 Cu. In.	9°
V8-305 & 350 Cu. In.	23°
I – Valve seat diameter	
L6-250 Cu. In.	1.591-1.597
V8-305 Cu. In.	1.823-1.829
V8-350 Cu. In.	1.823-1.829

A – Stem diameter	.3410-.3417
B – Over length	
L6-250 Cu. In.	4.913-4.933
V8-305 Cu. In.	4.913-4.933
V8-350 Cu. In.	4.910-4.930
C – Gage length	4.781-4.791
D – Overall head diameter	
L6-250 Cu. In.	1.495-1.505
V8-305 Cu. In.	1.495-1.505
V8-350 Cu. In.	1.495-1.505
E – Angle of face	45°
F – Guide diameter	.3427-.3437
G – Angle of seat	46°
H – Valve angle	
L6-250 Cu. In.	9°
V8-305 & 350 Cu. In.	23°
I – Valve seat diameter	
L6-250 Cu. In.	1.321-1.327
V8-305 Cu. In.	1.321-1.327
V8-350 Cu. In.	1.321-1.327

VALVE LIFT

L6-250 Cu.In.	.3880 Inlet; .4051 Exhaust
V8-305 Cu.In.	.3727 Inlet; .4100 Exhaust
V8-350 Cu.In.	.3900 Inlet; .4100 Exhaust

VALVE TIMING (Crankshaft Degrees - Excluding Ramps)

L6-250 Cu.In.	
Inlet Valve	
Opens – BTC	16°
Closes - ABC	48°
Duration	244°
Exhaust Valve	
Opens - BBC	64°
Closes - ATC	50°
Duration	294°
V8-305 Cu.In.	
Inlet Valve	
Opens - BTC	28°
Closes - ABC	64°
Duration	272°
Exhaust Valve	
Opens - BBC	78°
Closes - ATC	30°
Duration	288°
V8-350 Cu.In.	
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	
L6-250 Cu. In.	Sump
V8-305 & 350 Cu. In.	Sump
Skirt type	Slipper
Top land clearance	
L6-250 Cu. In.	.0245-.0335
V8-305 Cu. In.	.0245-.0335
V8-350 Cu.In.	.0235-.0325
Skirt clearance	
L6-250 Cu. In.	.0005-.0015
V8-305 Cu. In.	.0017-.0042
V8-350 Cu. In.	.0007-.0017
Compression ring groove depth	
L6-250 Cu. In.	.2153-.2218
V8-305 Cu. In.	.2003-.2073
V8-350 Cu. In.	.2218-.2308
Oil ring groove depth	
L6-250 Cu. In.	.2093-.2158
V8-305 Cu. In.	.2103-.2193
V8-350 Cu. In.	.2038-.2103
Pin bore offset	.055-.065
Compression height	
L6-250 Cu. In.	1.658-1.662
V8-305 Cu. In.	1.538-1.562
V8-350 Cu. In.	1.558-1.562

PISTON PINS

Material	Chromium steel
Length	
L6-250 Cu. In.	2.990-3.010
V8-305 & 350 Cu. In.	2.990-3.010
Diameter	
L6-250 Cu. In.	.9270-.9273
V8-305 & 350 Cu. In.	.9270-.9273
Clearance in Piston	
L6-250 Cu. In.	.00015-.00025
V8-305 & 350 Cu. In.	.00025-.00035
Pin Mounting	Locked in rod by shrink fit

PRINCIPAL COMPONENTS

COMPRESSION RINGS – UPPER

Material	Cast alloy iron
Type	Straight edge inside of ring
Face	Barrel
Coating	
L6-250 Cu. In.	Wear resistant coating molybdenum inlay, graphite impregnated
V8-305 & 350 Cu. In.	Chrome flash
Width	
L6-250 Cu. In.	.0775-.0780
V8-305 Cu. In.	.0770-.0780
V8-350 Cu. In.	.0775-.0780
Wall Thickness	
L6-250 Cu. In.	.184-.194
V8-305 Cu. In.	.167-.177
V8-350 Cu. In.	.190-.200
Gap	.010-.020

COMPRESSION RINGS – LOWER

Type	Inside bevel (top of ring 30 degrees to piston vertical axis)
Face	Tapered
Coating	Wear resistant
Width	
L6-250 Cu. In.	.0770-.0780
V8-305 Cu.In.	.0770-.0775
V8-350 Cu. In.	.0770-.0775
Wall Thickness	
L6-250 Cu. In.	.184-.194
V8-305 Cu. In.	.167-.177
V8-350 Cu. In.	.190-.200
Gap	
L6-250 Cu. In.	.010-.020
V8-305 Cu. In.	.010-.025
V8-350 Cu. In.	.010-.025

OIL CONTROL RINGS

Type	Multi-piece (two rails and one spacer)
Material	
Rails	Steel
Spacer	Alloy steel
Width (assembled)	
L6-250 Cu.In.	.1850-.1870
V8-305 Cu.In.	.1859-.1879
V8-350 Cu.In.	.1850-.1870
Wall Thickness	
L6-250 Cu. In.	.152-.158
V8-305 Cu. In.	.138-.143
V8-350 Cu. In.	.150-.156
Gap	
L6-250 Cu. In.	.015-.055
V8-305 Cu. In.	.010-.035
V8-350 Cu. In.	.015-.055
Rail Coatings	Chrome plated

CONNECTING RODS

Material	Drop forged steel
Length (Center to Center)	5.695-5.705

CONNECTING ROD BEARINGS

Material	
L6-250 Cu. In.	Premium aluminum
V8-305 & 350 Cu. In.	Premium aluminum
Type	Precision removable
Clearance	
L6-250 Cu. In.	.0007-.0027
V8-305 & 350 Cu. In.	.0013-.0035
Theoretical I. D.	
L6-250 Cu. In.	2.0017
V8-305 & 350 Cu. In.	2.1019
Effective Length	
L6-250 Cu. In.	.807
V8-305 & 350 Cu. In.	.797
End Play	
L6-250 Cu. In.	.007-.016
V8-305 Cu. In.	.006-.016
V8-350 Cu. In.	.006-.016

FUEL TANK
- Capacity (Gal) . . . . . 21 (approximately)
- Fuel tank location . . . . . Attached to underbody behind rear axle
- Filler location . . . . . Behind hinged rear license plate

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

FUEL PUMP ASSEMBLY
- Type . . . . . Mechanical; diaphragm
- Drive . . . . . Camshaft, eccentric
- Location . . . . . Right side front of engine
- Pressure range (shut off pressure at 1800 rpm)
  - L6-250 Cu. In. . . . . 4.00-5.00 psi at pump outlet
  - V8-305 Cu. In. . . . . 7.50-9.00 psi at pump outlet
  - V8-350 Cu.In. . . . . 7.50-9.00 psi at pump outlet

AIR CLEANER
- Type . . . . . Cylindrical with air horn attached to ducted air inlet
- Diameter
  - L6-250 Cu.In. 12.62
  - V8-305 & 350 Cu.In. 15.48
- Filter element . . . . . Oil-wetted paper

CARBURETORS
- Make and type
  - L6-250 Cu.In. . . . . 1-barrel, Monojet
  - V8-305 Cu. In. 2-barrel
  - V8-350 Cu.In. 4-barrel
- SAE flange type
  - L6-250 Cu.In. 1.50
  - V8-305 & 350 Cu.In. 1.50
- Throttle bore
  - L6-250 Cu.In. 1.69
  - V8-305 Cu.In. 1.69
  - V8-350 Cu.In.
    - Primary 1.38
    - Secondary 2.25
- Secondary throttle actuation . . . . . By linkage approximately when primary valves are opened halfway between closed and open
- Venturi diameter
  - L6-250 Cu.In. 1.31
  - V8-305 Cu.In. 1.19
  - V8-350 Cu.In.
    - Primary 1.09
    - Secondary . . . . . Air valve

CHOKE
- Type . . . . . Automatic

EXHAUST SYSTEMS

TYPE
- L6-250 Cu.In. . . . . Single exhaust, single converter with crossover
- V8-305 & 350 Cu.In. . . . . Single exhaust, single converter with crossover and dual tail pipes

MUFFLERS
- Type . . . . . Oval, reverse flow
- Construction . . . . . Heads and body joined by rolled lock seam construction
- Heads
  - L6-250 Cu.In. . . . . .054 sheet steel, aluminized
  - V8-305 Cu.In. . . . . .054 sheet steel, aluminized
  - V8-350 Cu.In. . . . . .054 sheet steel, aluminized
- Shell
  - L6-250 Cu.In. . . . . .031 sheet steel, aluminized
  - V8-305 & 350 Cu.In. . . .031 sheet steel, aluminized
- Wrap . . . . . .060 indented asbestos sheet
- Cover . . . . . .017 sheet steel, aluminized
- Length, Body 24.00
- Width (I.D.) 10.75
- Height (I.D.) 4.06

EXHAUST CROSSOVER PIPE TO CONVERTER
- Dimensions (O.D.) & Wall Thickness
  - L6-250 Cu.In. . . . . 2.25 x .078 laminated
  - V8-305 & 350 Cu.In.
    - Crossover . . . . . 2.00 x .078 laminated
    - To Converter . . . . . 2.50 x .078 laminated

EXHAUST PIPE – CONVERTER TO MUFFLER
- Dimensions (O.D.)
  - L6-250 Cu.In. 2.25
  - V8-305 & 350 Cu.In. 2.25
- Wall Thickness
  - L6-250 Cu.In. . . . . .071 laminated
  - V8-305 & 350 Cu.In. . . . . .071 laminated

TAIL PIPES
- Dimensions (O.D.)
  - L6-250 Cu.In. 2.00
  - V8-305 & 350 Cu.In. 2.00
- Wall Thickness
  - L6-250 Cu.In. 056
  - V8-305 & 350 Cu.In. 056

SYSTEM APPLICATION

System Type	Engine Adaptation		
	L6-250 L22	V8-305 LG3	V8-350 LM1
PCV – Positive Crankcase Ventilation	***	***	***
EGR – Exhaust Gas Recirculation	***	***	***
CHA – Carburetor Hot Air	***	***	***
MAI – Manifold Air Injection	**	**	** (a)
FEC – Fuel Evaporation Control System	***	***	***
CCS – Controlled Combustion System	*	*	*
UFC – Under Floor Converter	***	***	***
EFE – Early Fuel Evaporation	***	***	***
MMC – Monolith Manifold Converter	**		

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

BASIC FUNCTION OF SYSTEMS

POSITIVE CRANKCASE VENTILATION

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

EXHAUST GAS RECIRCULATION SYSTEM

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

CARBURETOR HOT AIR

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

MANIFOLD AIR INJECTION

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

MONOLITH MANIFOLD CONVERTER

Compresses, regulates and distributes quantities of air to the exhaust pipe in front of the converter to more completely burn carbon monoxide and hydrocarbon emissions.

FUEL EVAPORATION CONTROL SYSTEM

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

CONTROLLED COMBUSTION SYSTEM

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

UNDER FLOOR 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.

EARLY FUEL EVAPORATION

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

LUBRICATION SYSTEM

GENERAL
- Type . . . . . Controlled full pressure
- Main Bearings . . . . . Pressure
- Connecting Rods . . . . . Pressure
- Piston Pins . . . . . Splash
- Cylinder Walls
  - L6-250 Cu. In. . . . . Main and connecting rod bearing throw off
  - V8-305 & 350 Cu.In. . . . Pressure, jet cross sprayed
- Camshaft Bearings . . . . . Pressure
- Valve Lifters . . . . . Pressure
- Rocker Arms . . . . . Pressure
- Timing Gears
  - L6-250 Cu.In. . . . . Nozzle sprayed
  - V8-305 & 350 Cu.In. . . . . Centrifugally oiled from camshaft bearing
- Oil Pressure Sending Unit
  - Type . . . . . Electric
  - Actuation . . . . Opens or closes circuit @ 2 to 6 PSI
- Oil Filler
  - Cap . . . . . Positive seal
  - Location
    - L6-250 Cu.In. . . . . Forward end of rocker cover
    - V8-305 & 350 Cu.In. Rearward on left rocker cover

OIL PAN CAPACITIES (Quarts)
- Refill
  - L6-250 Cu. In. 4
  - V8-305 & 350 Cu.In. 4
- Refill with Filter Change
  - L6-250 Cu.In. 4.5
  - V8-305 & 350 Cu.In. 4.5

LUBRICANT GRADES AND TEMPERATURES
- 20° and Above 10W-30, 10W-40, 20W-20 20W-40, 20W-50
- 0° to 60° above 10W, 5W-30, 10W-30, 10W-40
- Below 20°F 5W, 5W-20, 5W-30

OIL PUMP
- Type . . . . . Gear
- Regulator Valve . . . . . Opens between 40-45 lbs,
- Oil Pressure
  - L6-250 Cu.In. . . . . 36-41 PSI @ 2000 RPM
  - V8-305 & 350 Cu. In. . . . . 32-40 PSI @ 2000 RPM
- Intake Type . . . . . Fixed pickup with screen
- Capacity (GPM @ Engine RPM)
  - L6-250 Cu.In. . . . . 4.3 @ 2000
  - V8-305 & 350 Cu.In. . . . . 4.3 @ 2000

OIL FILTER
- Type . . . . . Full flow, throw away canister
- Location
  - L6-250 Cu.In. . . . . Right side front of engine
  - V8-305 & 350 Cu.In. . . . . Left rear side of engine
- Capacity . . . . . One pint
- Bypass Valve . . . . . Opens between 9 to 11 PSI

OIL PAN DRAIN PLUG
- Type . . . . . Hex head
- Location
  - L6-250 Cu.In. . . . . Front lower face of oil pan sump
  - V8-305 & 350 Cu.In. . . . . Left lower face of oil pan sump
- Size of Hex Head 860-.875
- Thread . . . . . 1/2-20 UNF 2A
- Length 0.81
- Diameter 410-.430

OIL DIPSTICK - LOCATION
- L6-250 Cu.In. . . . . Right side rear of engine block
- V8-305 & 350 Cu.In. . . . . Left side center rear of engine block

GENERAL

Type . . Pressure, vented thru coolant recovery system
Capacity with Heater
L6-250 Cu.In. . . . . 14.2 qts
V8-305 Cu.In. . . . . 17.2 qts
V8-350 Cu.In. . . . . 17.3 qts

RADIATOR

Make and Type . . . . . Harrison, tube and center
Core constant

Distance between fins	Manual	Auto.
L6-250 Cu.In.	.22	.20
V8-305 Cu.In.	.20	.16
V8-350 Cu.In.	.16	.18

Distance between tubes 55
Thickness of core
L6-250 Cu.In. 1.24
V8-305 Cu.In. 1.24
V8-350 Cu.In. 1.24
Frontal Areas
L6-250 Cu.In. 353
V8-305; 350 (Man. Trans.) 353
V8-350 (Auto. Trans.) 446
Overflow . . . . . Separate coolant bottle

RADIATOR HEAVY DUTY (RPO V01)

Core constant

Distance between fins	Manual	Auto.
L6-250 Cu.In.	.18	.16
V8-305 Cu.In.	.16	.16
V8-350 Cu.In.	.16	.20

Distance between tubes 55
Thickness of core
L6-250 Cu.In. 1.24
V8-305 Cu.In. & 350 (Man. Trans.) 1.24
V8-350 Cu.In. (Auto. Trans.) 1.96
Frontal area (sq. in.)
L6-250 Cu.In. 446
V8-305 & 350 Cu.In. 446
Overflow . . . . . Separate coolant bottle

THERMOSTAT

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

RADIATOR CAP RELIEF VALVE

Opens at . . . . . Approximately 15 PSI

RADIATOR HOSE

Outlet, lower (radiator to water pump) . . . . 1.75 ID
Inlet, upper (thermostat housing to radiator) . 1.50 ID

FAN

Number of blades 4
Diameter
L6-250 Cu.In. 17.62
V8-305 & 350 Cu.In. 18.00
Fan pulley pitch diameter 7.00

BELTS, CRANKSHAFT, FAN AND GENERATOR

Number used . . . . . One
Angle of "V" . . . . . 34°-38°
Pitch line
L6-250 Cu.In. 38.00
V8-305 Cu.In.
(Except California) 44.50
V8-350 Cu.In.
(Except California) 47.00
V8-305 Cu.In. (California) 48.00
V8-350 Cu.In. (California) 48.00
Width 380

WATER PUMP

Type . . . . . Centrifugal
Capacity
L6-250 Cu.In. . . . . 21.0 GPM @ 2000 engine RPM
V8-305 & 350 Cu.In. 22.7 GPM @ 2000 engine RPM
Bearing . . . . . Permanently lubricated double row ball
Drive . . . . . Fan belt
Ratio (pump to engine rpm)
L6-250 Cu.In. 1.165:1
V8-305 & 350 Cu.In. 949:1

DRAIN LOCATIONS AND TYPE

Engine block; Plug
L6-250 Cu.In. . . . . Left side rear
V8-305 & 350 Cu.In. . . . . Right and left side
Radiator-Petcock
All Types . . . . . Lower left rear face

ELECTRICAL SYSTEM

SUPPLY SYSTEM
BATTERY
Voltage Rating and Watts
L6-250 Cu.In. 12-2500
V8-305 & 350 Cu.In. 12-3200
Number of Cells and Plates
L6-250 Cu.In. 6-54
V8-305 & 350 Cu.In. 6-66
Cold Cranking Rating
L6-250 Cu.In. . . . . 0° @ 275 amps; – 20° @ 210 amps. @ 60 minutes reserve capacity
V8-305 & 350 Cu.In. . . . . 0° @ 350 amps; – 20° @ 270 amps. @ 80 minutes reserve capacity
Terminal Grounded . . . . . Negative
Location . . . Engine compartment, right side front

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

REGULATOR
Type . . . . . Micro circuit unit integral with alternator
Voltage . . . . . 13.8-14.8 @ 85°F

IGNITION SYSTEM
DISTRIBUTORS . . . . . Refer to chart below

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

COIL
Type
L6-250 Cu.In. . . . . Separate from distributor
V8-305 & 350 Cu.In. . . . . Integral with distributor

SPARK PLUGS
Type
L6-250 Cu.In. ACR46TS
V8-305 & 350 Cu.In. ACR45TS
Thread Size (mm) 14
Gap . . . . . .035 (L6-250); .045 (V8-305 & 350)
Torque . . . . . 25 lb. ft.

STARTING SYSTEM
STARTING MOTOR
Rotation (Drive End View) . . . . . Clockwise
Test Conditions . . . . . Engine at operating temp.
No Load Test
Amps
L6-250 Cu.In. 49-87
V8-305 & 350 Cu.In. 70-99
Volts 10.6
RPM
L6-250 Cu.In. 6200-10700
V8-305 & 350 Cu.In. 7800-12000
Motor Drive
Engagement . . . . . Solenoid
Pinion Meshes at . . . . . Rear
Pinion Tooth No. 153
Mounting . . . . . Bolted to cylinder block flange

DISTRIBUTORS	L6-250 Cu.In.		V8-305 Cu.In.		V8-350 Cu.In.	
Model	1110678	1110681*	1103239	1103244*	1103246	1103248*
Type	High Energy Ignition					
Centrifugal advance begins @ RPM	0° @ 1000	0° @ 1000	0° @ 1200	0° @ 1000	0° @ 1200	0° @ 1200
Maximum degrees @ RPM	20° @ 4200	20° @ 4200	20° @ 4200	20° @ 3800	22° @ 4200	22° @ 4200
Vacuum advance begins @ In. Hg.	0° @ 4	0° @ 4	0° @ 4	0° @ 4	0° @ 4	0° @ 4
Maximum degrees @ In. Hg.	24° @ 15	15° @ 12	15° @ 10	20° @ 10	18° @ 12	10° @ 8
Timing (initial design setting) Crankshaft degrees @ RPM with vacuum line disconnected	6° BTC @ 850 Manual 8° BTC @ 550 Auto.	6° BTC @ 600 Automatic	8° BTC @ 600 Manual 500 Auto.	6° BTC @ 500 Automatic	8° BTC @ 700 Manual 500 Auto.	8° BTC @ 500 Automatic
Timing mark location	Torsional damper					

*–Specific to engine used in California.

CHASSIS

FRAME AND FRONT SUSPENSION 2-3
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FRAME AND FRONT SUSPENSION

FRAME
- Description . . . . . Extended rail front partial frame of deep sectioned double-channeled side members joined by three flanged hat-section crossmembers.
- Body Mounting
  - Number and type . . . . 3 each side double cushion

FRONT SUSPENSION
- Description . . . . . Independent, SLA type with coil springs, center mounted shock absorbers and spherical joint steering knuckle pivots
- Wheel travel (design)
  - Total 6.90
  - Jounce 2.34
  - Rebound 4.56
- Wheel to spring travel ratio 2.02:1

CONTROL ARMS
- Description . . . . . Reinforced steel stamping with pre-loaded, steel encased, rubber bushings at pivots.

STEERING KNUCKLES
- Description . . . . . Nodular iron with integral steering knuckle arm.
- Spindle diameters
  - Inner bearing 1.2493-1.2498
  - Outer bearing 7492-.7497
- Spindle thread size . . . . . 3/4-20 NEF-3 (modified)
- Wheel bearings
  - Type . . . . . Taper roller; inner and outer

SPHERICAL JOINTS
- Type . . . . . Ball stud
  - Upper . . . . . Compression
  - Lower . . . . . Tension
- Bearing surfaces
  - Upper . . . . . Teflon-cotton composite on phenolic
  - Lower . . . . . Sintered iron

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

STABILIZER BAR
- Type . . . . . Link
- Material . . . . . HR steel
- Diameter . . . . . .875 or .9375 or 1.00 contingent as to how vehicle is equipped

FRONT WHEEL ALIGNMENT (CURB)
- Camber (degrees)
  - Manual steering . . . . . P3/4 ± 3/4
  - Power Steering . . . . . P3/4 ± 3/4
- Caster (degrees)
  - Manual Steering . . . . . N1 ± 1
  - Power Steering . . . . . P1 ± 1
- Toe-in (total) . . . . . 1/16 ± 1/8
- Steering axis inclination (degrees) 10^{o} @ 0.75^{o} camber

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

FRONT SPRINGS

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

FRONT SPRING SPECIFICATIONS

Part Number	Assy. Code	Cut-Off Length	Wire Dia.	Total Coils	Deflection Rate (lbs./inch)	HEIGHTS	
						Free	Working (In. @ Lbs.)
334444	KB	118.38	.665	7.79	400	15.10	11.00 @ 1630
334445	KF	118.41	.665	7.79	400	15.30	11.00 @ 1710
334447	KT	128.96	.668	8.49	365	16.23	11.00 @ 1900
334450	KU	132.09	.674	8.69	365	16.44	11.00 @ 1975
334451	KV	133.68	.677	8.79	365	16.64	11.00 @ 2050
346996	HM	116.07	.617	7.70	300	16.46	11.00 @ 1620
354160	ANJ	114.83	.626	7.64	330	16.41	11.00 @ 1775
354161	ANK	114.86	.626	7.64	330	16.61	11.00 @ 1840
3996361	AE	116.10	.617	7.70	300	16.66	11.00 @ 1680
6262425	DH	126.23	.680	8.29	400	15.70	11.00 @ 1870
6262426	DJ	126.26	.680	8.29	400	15.90	11.00 @ 1950
6262427	DK	129.40	.686	8.49	400	16.10	11.00 @ 2030
6262428	DL	130.99	.688	8.59	400	16.30	11.00 @ 2110
6262429	DM	132.58	.691	8.69	400	16.50	11.00 @ 2190
6272862	HW	118.44	.665	7.79	400	15.50	11.00 @ 1790

STEERING, DRIVELINE, WHEELS AND TIRES

STEERING
- Wheel
  - Type . . . . . Round with center shroud
  - Diameter 15.25
- Column . . . . . Energy absorbing – mast jacket, shifter tube and steering shaft designed to collapse under various front impact conditions.
- Gear – Manual (standard); Power (optional)
  - Gear Type
    - Manual (Standard) . . . . . Recirculating ball nut
    - Power (Optional) . . . . Integral, recirculating ball nut with hydraulic pressure provided from a vane type pump.
  - Ratios, Gear
    - Manual 24.0:1
    - Power . . . . . 16.0:1 on center to 13.0:1
  - Ratios, Overall
    - Manual 26.41:1
    - Power . . . . . 15.07:1 on center to 11.31:1
  - Number of wheel turns, lock to lock
    - Manual 4.99
    - Power 2.42
- Linkage . . . . . Parallelogram, rear of wheels, 2 tie rods
- Turning diameter
  - Outside front, wall to wall 39.9
  - Outside front, curb to curb 38.1
  - Inside rear, wall to wall 11.77
  - Inside rear, curb to curb 10.89
- Outside wheel angle with inside wheel @ 20°
  - Manual 18.85
  - Power 18.65

DRIVELINE
- Type . . . . . Straight tube
- Number used . . . . . One
- Diameter (OD) 2.75
- Wall Thickness 0.065
- Length (C/L of U-joints)
  - 250 L6 . . . . . 53.14
  - 305 & 350 V8 . . . . . 51.78
- Universal Joints
  - Type . . . . . Cross
  - Number used . . . . . Two
  - Bearings . . . . . Prepacked, anti-friction

WHEELS
- Type . . . . . Short, spoke spider
- Size
  - Base equipment . . . . . 14 x 6
  - Rally type, optional . . . . . 14 x 6
  - Rally type, optional . . . . . 14 x 7
- Offset
  - Base equipment 0.50
  - Rally type, optional 0.50
  - Rally type, optional 0.34
- Attachment to Hub
  - Type . . . . . 5 hex nuts
  - Thread size . . . . . 7/16-20 UNF 2-B
  - Bolt circle diameter 4.75

TIRE, STANDARD EQUIPMENT
- Nova Concours
  - FR78 x 14B steel belted radial
    - Static loaded radius 11.60
    - Loaded rev/mi @ 45 mph 797
    - Capacity @ 24 psi 1280
- Nova
  - E78 x 14 bias belted
    - Static loaded radius 12.04
    - Loaded rev/mi @ 45 mph 796
    - Capacity @ 24 psi 1190

TIRES, OPTIONAL EQUIPMENT
- Nova
  - FR78 x 14 steel belted radial

REAR AXLE

Description . . . . . Three piece housing includes integral cast iron differential carrier and housing with two pressed-in and welded steel tubes. Semi-floating axle shafts. Differential carrier contains hypoid overhung pinion and ring gear. Drive pinion supported by two taper roller bearings.
Drive pinion vertical offset 1.75
Hypoid gear PD
250 L6 . . . . . 7.50
305 & 350 V8 . . . . . 8.50
Pinion bearing adjustment . . . . . Shim
Lubricant
Type . . . . . Military Spec. MIL-L-2105-B
Viscosity 80W-90
Capacity (pts)
7.50 in. ring gear 3.25
8.50 in. ring gear 4.00

AXLE SHAFT

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

RING AND PINION GEAR AND TOOTH COMBINATIONS

(See Power Train Section for application)

2.56:1 41,16
2.73:1 41,15
3.08:1 40,13

POSITRACTION DIFFERENTIAL (See Power Trains)

Type . . . . . Two pinion with single disc clutch

REAR SUSPENSION

Description . . . . . Hotchkiss; 2 semi-elliptical multiple leaf springs
Wheel travel (design)
Total L.H.-7.84; R.H.-8.24
Jounce 2.14
Rebound L.H.-5.70; R.H.-6.10
Wheel to spring, travel ratio 1:1

SHOCK ABSORBERS

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

REAR SPRINGS

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

REAR SPRING SPECIFICATIONS

Part Number	Number of Leaves	Length	Width	Shackle	Mounting Insulation	Assy. Code	Deflection Rate (Lbs./In.)	Load @ .52 Spring Camber (Lbs.)
354184	Five	56.0	2.50	Compression type	Rubber bushed at shackle and hanger	NAY	126	535
354185	Six					HAU	126	590
354186	Six					NAW	126	665
354187	Six					NAX	126	721
362102	Six					NBA	126	721
362103	Six					NBB	126	665
362104	Six					NBC	103	565
362105	Seven					NBD	101	615
362106	Five					NBF	126	535
362107	Six					NBH	126	590
362109	Six					NBJ	126	771
378552	Seven					NCY	95	665
378553	Seven					NCZ	95	715

BRAKES

General	Type		Front – Disc; Rear – Drum	
			Manual – Standard	Power – Optional (*)
	System		Dual circuit hydraulic system with warning light and self-adjusting features - metering and proportioning valves provide balance between front and rear wheels.	
Front Brakes	Type		Disc – single piston floating caliper	
	Material		Cast iron – vented	
	Diameter and Width		11.0 x 1.03	
	Lining material		Compression molded asbestos composition	
	Method of attachment		Riveted	
	Lining size (length x width x thickness)	Inboard	5.40 x 1.92 x 0.46	
		Outboard	5.40 x 1.92 x 0.46	
	Lining area (sq. in.)		38.76	
	Effective area (sq. in.)		36.8	
	Swept area (sq. in.)		210.4	
	Piston diameter		2.94	
Rear Brakes	Type		Drum – Composite, web cast into rim, pinned construction	
	Material		Web – HR steel, Rim – cast alloy iron	
	Diameter and Width		9.5 x 2.0	
	Lining material		Molded asbestos composition	
	Method of attachment		Riveted	
	Lining size (length x width x thickness)	Primary	7.30 x 2.00 x 0.23	
		Secondary	9.46 x 2.00 x 0.30	
	Lining area (sq. in.)		67.04	
	Effective area (sq. in.)		63.72	
	Swept area (sq. in.)		116.06	
	Piston diameter		.938	
Apply System	Master cylinder diameter		1.00	1.125
	Piston travel		1.253	1.408
	Pedal travel		7.38	5.44
	Pedal ratio		6.22:1	3.54:1
	Line pressure @ 100 lb. pedal load		550	900
Parking Brake	Type		Mechanical: pull rods and cables operate rear service brakes; parking brake 'ON' warning lamp provided.	
	Control		Pendulum foot pedal; released by "T" handle located on instrument panel to left of steering wheel	
	Total effective area		63.72	

(*) – Standard with V8 Engine Equipped Vehicles.

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Back-up	2-1156	32
Brake Warning	1-194	2
Courtesy (instrument panel)	2-631	6
Direction signal indicators	2-194	2
Dome	1-561	2
Generator indicator	1-194	2
Glove compartment	1-1891	2
Headlamp	2-6012	High beam 60W Low beam 50W
Headlamp hi-beam indicator	1-194	2
Heater control	1-194	2
Instrument cluster	4-194	2
License plate	1-194	2
Luggage compartment	1-1003	15
Oil pressure indicator	1-194	2
Parking Park Turn	2-1157	 3 32
Radio - AM	1-1893	2
Radio – AM/FM	1-216	1
Radio – UM1 & UM2 Dial Ind.	 1-1893 1-DS410	 2 .1
Seat belt warning	1-194	2
Side Marker - Front	2-194	2
Side Marker - Rear	2-194	2
Tail Tail Stop and turn	2 (1XX)-1157 4 (1XY)-1157 2-1157	 3 32
Temperature indicator	1-194	2
Underhood lamp	1-93	15
Washer Wiper control	1-194	2

FUSES AND CIRCUIT BREAKERS

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT *
Air conditioning	30 amp fuse	In line
	25 amp fuse	Fuse panel (h)
Back-up lamps	20 amp fuse	Fuse panel (b)
Cigarette lighter	20 amp fuse	Fuse panel (e)
Clock	20 amp fuse	Fuse panel (e)
Courtesy lamps	20 amp fuse	Fuse panel (e)
Defogging unit	10 amp fuse	Fuse panel (c)
Direction signal indicator lamps	20 amp fuse	Fuse panel (b)
Dome lamp	20 amp fuse	Fuse panel (e)
Door Lock	30 amp CB	In line
Fuel economy light	10 amp fuse	Fuse panel (c)
Fuel gauge	10 amp fuse	Fuse panel (c)
Generator indicator lamp	10 amp fuse	Fuse panel (c)
Glove compartment lamp	20 amp fuse	Fuse panel (e)
Headlamps	Circuit breaker	Light switch
Headlamp hi-beam indicator lamp	Circuit breaker	Light switch
Headlight buzzer	10 amp fuse	Fuse panel (c)
Heater	25 amp fuse	Fuse panel (h)
Heater controls lamp	4 amp fuse	Fuse panel (f)
Instrument cluster lamps	4 amp fuse	Fuse panel (f)
Key buzzer	20 amp fuse	Fuse panel (e)
License lamp	20 amp fuse	Fuse panel (d)
Luggage compartment lamp	20 amp fuse	Fuse panel (c)
Oil pressure indicator lamp	10 amp fuse	Fuse panel (c)
Parking lamps	20 amp fuse	Fuse panel (d)
Parking brake alarm lamp	10 amp fuse	Fuse panel (c)
Power window motor	30 amp CB	In line
Radio	10 amp fuse	Fuse panel (g)
Radio lamp	4 amp fuse	Fuse panel (f)
Seat belt warning buzzer	10 amp fuse	Fuse panel (c)
Seat belt warning lamp	10 amp fuse	Fuse panel (c)
Side Marker lamp - Front & Rear	20 amp fuse	Fuse panel (d)
Speed cruise control	10 amp fuse	Fuse panel (c)
Tail lamps	20 amp fuse	Fuse panel (d)
Idle stop solenoid	10 amp fuse	Fuse panel (g)
Temperature indicator lamp	10 amp fuse	Fuse panel (c)
Temperature gage	10 amp fuse	Fuse panel (c)
Traffic hazard indicator	20 amp fuse	Fuse panel (a)
Stop and turn lamps	20 amp fuse	Fuse panel (a)
Underhood lamp	20 amp fuse	In line
Windshield wiper, two-speed	25 amp fuse	Fuse panel
Windshield washer	4 amp fuse	Fuse panel (f)

* Letter suffix indicates same circuit

BODY

EXTERIOR PAINT PROCESS 2

EXTERIOR-INTERIOR COLORS AND VINYL ROOF COMBINATIONS 3

EXTERIOR-INTERIOR COLORS . . . . . 4 & 5

EXTERIOR-TWO-TONE COLORS COMBINATIONS (RPO D99) 6

BODY CONSTRUCTION AND GLASS AREA 7

EXTERIOR PAINT PROCESS

1. RUSTPROOFING. Assembled car bodies are chemically sprayed to clean and etch the metal surfaces for corrosion resistance and paint adhesion. Unassembled sheet metal parts follow the same process.

2. BODY AND SHEET METAL PRIMERS. Four corrosion resistant primers, specially formulated, are hand sprayed on the body in areas where rust might develop. Lower areas considered especially vulnerable are coated with another rust inhibiting compound.

3. PRIMER COAT is applied to all outside and inside surfaces of front fenders and hoods. The parts are mechanically dipped or flow-coated to insure coating in all seams and secluded areas, and baked at 390 degrees F. for 30 minutes. A coat of sealer is then applied by hand spray to all surfaces requiring another coat of lacquer.

4. FLASH PRIMER AND PRIMER-SURFACER COATS. An air-dry flash primer coat is hand sprayed on surfaces below the body belt line. Then a gray primer-surfacer coat is hand sprayed on all outside surfaces of the body and oven baked for 45 minutes at 285 degrees F.

5. INITIAL SANDING. Power wet sanding, followed by hand sanding, is done on all body surfaces requiring lacquering. This insures a smooth surface for the lacquer finish. To remove the water, the body is wiped and run through an infra-red oven.

6. LACQUERING. Three coats of acrylic lacquer are spread on the exterior surfaces of the body and sheet metal parts to build up a finish of the required thickness for each color.

7. INITIAL BAKING. To harden the paint for final sanding, the body and sheet metal parts are baked for approximately 10 minutes at 200 degrees F.

8. FINAL SANDING. To remove body surface defects, power and hand sanding is done with fine grit sandpaper and mineral spirits as a wetting agent. Sanded areas are wiped to insure a clean surface before final baking.

9. FINAL BAKING. To assure a durable, hard, high luster finish the lacquer is baked for 30 minutes at 275 degrees F. Reheating the lacquer after final sanding permits paint film to soften, allowing surface blemishes and sanding scratches to disappear during the thermo-reflow process.

10. UNDERCOATING. To block out road noise, an asbestos fiber sound deadener with asphalt base is sprayed inside the wheel housings and on the bottom of the underbody at designated areas.

11. PAINT REPAIR AND PROTECTION. Mars, nicks, or scratches that occur during final assembly are corrected at the factory before shipment. When required, light "slush" polishing brings painted surfaces to a high luster finish. Wax is applied to all horizontal surfaces of each vehicle and polished out for protection during shipment. The wax contains no silicones, thus eliminating any paint contamination problem.

EXTERIOR COLORS – VINYL ROOF COMBINATIONS

VINYL TOP COVER (Material - Levant Grain)	EXTERIOR COLOR AVAILABILITY	
Silver Metallic	White	11
	Silver Metallic	13
	Black	19
	Dark Blue Metallic	29
	Firethorn Metallic	36
	Light Red	75
Black	All Available Colors	
White	All Available Colors	
Light Dark Blue Metallic	White	11
	Light Blue Metallic	22
	Dark Blue Metallic	29
Light Buckskin	White	11
	Black	19
	Firethorn Metallic	36
	Aqua Metallic	38
	Medium Green Metallic	44
	Light Buckskin	61
	Buckskin Metallic	63
	Brown Metallic	69
	Light Red	75
	Orange Metallic	78
Medium Green Metallic	White	11
	Medium Green Metallic	44
Firethorn Metallic	White	11
	Firethorn Metallic	36

1977 CHEVROLET NOVA 'X' INTERIOR – EXTERIOR COLOR COMBINATIONS

MODEL	Seat Type	INTERIOR TRIM					
		Black		Light Blue		Light Buckskin	
		Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl
Standard – 1XX00							
Coupe (27)	(A52) Bench	19B			24R	64B	64R
Hatchback (17)	(A52) Bench				24R		64R
Sedan (69)	(A52) Bench	19B			24R	64B	64R
Custom – Interior (ZJ1)							
Coupe (27)	(A52) Bench		19N	24C		64D	
	(A51) Bucket		19N				
Sedan (69)	(A52) Bench		19N	24C		64D	
Concours – 1XY00							
Coupe (27)	(A65) Bench	19E				64E	64V
	(AR5) Bucket	19E				64E	
Hatchback (17)	(A65) Bench	19E				64E	64V
	(AR5) Bucket	19E				64E	
Sedan (69)	(A65) Bench	19E				64E	64V
	(AR5) Bucket	19E				64E	

EXTERIOR COLOR	Color Code	Black	Light Blue	Light Buckskin
White	11	R	R	R
Silver Metallic	13	R	–	–
Black	19	R	A	R
Lt. Blue Metallic	22	R	R	–
Dark Blue Metallic	29	A	R	–
Firethorn Metallic	36	A	–	R
Dark Aqua Metallic	38	A	–	A
Med. Green Metallic	44	A	–	A
Bright Yellow	51	R	–	–
Light Buckskin	61	R	–	R
Buckskin Metallic	63	R	–	R
Brown Metallic	69	–	–	R
Red	75	A	–	R
Orange Metallic	78	R	–	R

R – Recommended
A – Acceptable

Override RPO ZP2 will be provided to permit ordering of any interior-exterior color combination.

CLOTH AND VINYL USAGE
R–Plisse vinyl
B–Racine, C/O 1976 601 WC, woven cloth
N–Rattan vinyl
C–Durham, 710 WC, knit cloth
D–Rutledge, 76 C/O 612 WC, woven sport cloth
V–Wallaby vinyl
E–Dover, 605 WC knit cloth, Dover bolster

1977 CHEVROLET NOVA 'X' INTERIOR – EXTERIOR COLOR COMBINATIONS

MODEL	Seat Type	INTERIOR TRIM					
		Firethorn		White			
		Cloth	Vinyl	† Vinyl /Black	† Vinyl /Dark Blue	† Vinyl /Dark Firethorn	† Vinyl /Dark Aqua
Standard – 1XX00							
Coupe (27)	(A52) Bench	71B	71R				
Hatchback (17)	(A52) Bench		71R				
Sedan (69)	(A52) Bench	71B	71R				
Custom – Interior (ZJ1)							
Coupe (27)	(A52) Bench	71C	71N	11N	02N	07N	03N
	(A51) Bucket		71N	11N	02N	07N	03N
Sedan (69)	(A52) Bench	71C	71N				
Concours – 1XY00							
Coupe (27)	(A65) Bench	71E	71V	11V	02V	07V	03V
	(AR5) Bucket	71E					
Hatchback (17)	(A65) Bench	71E	71V	11V	02V	07V	03V
	(AR5) Bucket	71E					
Sedan (69)	(A65) Bench	71E	71V				
	(AR5) Bucket	71E					

EXTERIOR COLOR	Color Code	Dark Firethorn	White/ Black	White/ Dk. Blue	White/Dk. Firethorn	White/ Dk. Aqua
White	11	R	R	R	R	R
Silver Metallic	13	R	R	–	–	–
Black	19	R	R	–	R	R
Lt. Blue Metallic	22	–	A	R	–	–
Dark Blue Metallic	29	–	A	R	–	–
Firethorn Metallic	36	R	A	–	R	–
Dark Aqua Metallic	38	–	R	–	–	R
Med. Green Metallic	44	–	A	–	–	–
Bright Yellow	51	–	R	–	–	–
Light Buckskin	61	R	A	–	–	–
Buckskin Metallic	63	–	A	–	–	–
Brown Metallic	69	–	A	–	–	–
Red	75	R	A	–	R	–
Orange Metallic	78	–	R	–	–	–

R – Recommended
A – Acceptable

Override RPO ZP2 will be provided to permit ordering of any interior-exterior color combination.

CLOTH AND VINYL USAGE
R–Plisse vinyl
B–Racine, C/O 1976 601 WC, woven cloth
N–Rattan vinyl
C–Durham, 710 WC, knit cloth
D–Rutledge, 76 C/O 612 WC, woven sport cloth
V–Wallaby vinyl
E–Dover, 605 WC knit cloth, Dover bolster

NOTES: † 11N – White interior with Black Instrument Panel, Carpet, Cowl Kick Panel, and Package Shelf or Load Area.
† 02N – White interior with Dark Blue Instrument Panel, Carpet, Cowl Kick Panel, and Package Shelf or Load Area.
† 03N – White interior with Dark Aqua Instrument Panel, Carpet, Cowl Kick Panel, and Package Shelf or Load Area.
† 07N – White interior with Dark Firethorn Instrument Panel, Carpet, Cowl Kick Panel, and Package Shelf or Load Area.

1977 NOVA
TWO TONE PAINT (RPO D99 – 1XA00)
"NOVA RALLY" STRIPE PKG. (RPO Z26 – 1XX17 & 27)

TWO TONE PAINT (RPO D99)*				"RALLY" STRIPE (RPO Z26)
LOWER COLOR		UPPER COLOR		
Lt. Blue Met.	22L	White	11U	White
Dark Blue Met.	29L	Lt. Blue Met.	22U	White
Dark Aqua Met.	38L	White	11U	White
Med. Green Met.	44L	White	11U	White
Brown Met.	69L	Lt. Buckskin	61U	Gold
Red (Light)	75L	White	11U	White
Orange Met.	78L	White	11U	White

* For available molding and pin stripe color combinations, see Dealer Order Guide.

GENERAL

Type . . . . . Separate partial front frame and bolt-on front end sheet metal, with protective inner fender skirts. Roof, doors, front and rear lids are of double-panel construction.

DOORS AND LOCKS

Door construction . . . . Double panel, hinged at front

Door handles . . . . . Push-button fork type latches. Inside push-button locks and 2-position free-wheeling inside door handles on rear doors of 4-door models.

HOOD AND TRUNK LID

Type . . . . . Counterbalanced, with strap type hinges actuating torsion rods on trunk lid and spring loaded toggle-type hinges on rear of hood.

Hood release . . . . . External

VENTILATION

High level air intake for passenger compartment . . with double wall plenum chamber, providing washing and air drying of rocker panels for corrosion resistance. Air and water travel through rocker panels and drain at ends of rocker inner panels.

SEAT CONSTRUCTION

Type

All seat cushions and backrests . . Formed polyfoam

WINDSHIELD WIPERS AND WASHERS

Type . . . . . Dual 2-speed electric

Linkage . . . . . Parallel acting

HEADLIGHTS

Type . . . . . Single Power Beam units

SPARE TIRE AND TOOLS

Location . . . . . Sedan and coupe, horizontal - center forward area of trunk floor. Tools consist of bumper jack and socket type "L" wrench stored on rear quarter panel (jack base stored with spare tire).

Hatchback coupe, spare tire horizontal - under cargo floor. Bumper jack - under hinged cargo load floor.

BODY GLASS VISIBILITY AREA

	MODELS		
	17	27	69
Windshield	1209.3		1282.1
Front Door Window	988.9		762.5
Rear Door Window	--		608.8
Rear Quarter Window	564.6	564.6 (Formal 361.5)	211.6
Back Window	1158.6	1392.1	1092.1
Total Area (Sq. In.)	3921.4	4154.9 (3951.8)	3957.1

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

DIMENSIONS AND WEIGHTS

INTERIOR DIMENSIONS 2, 3

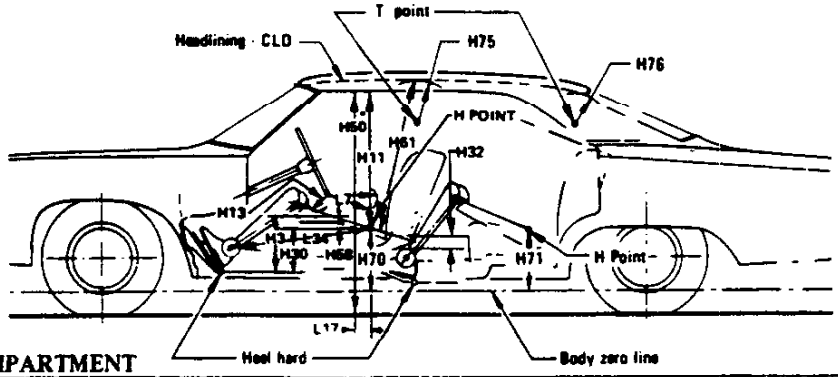
LUGGAGE CAPACITY 3

EXTERIOR DIMENSIONS 4, 5

VEHICLE WEIGHTS 6

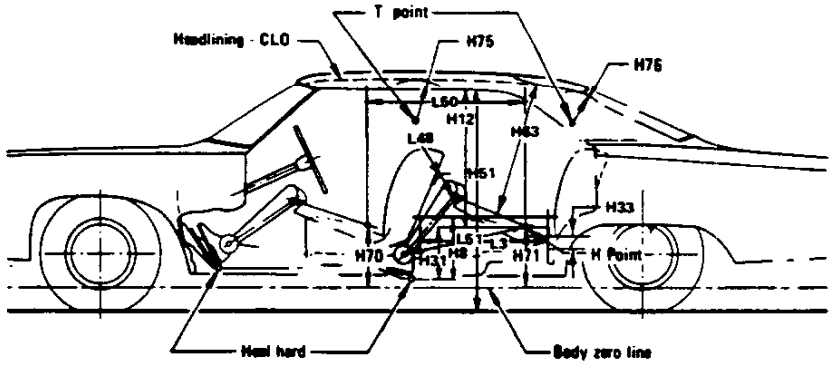
OPTIONAL EQUIPMENT WEIGHTS 6

INTERIOR DIMENSIONS



FRONT COMPARTMENT

CODE	DESCRIPTION	2-DOOR HATCHBACK COUPE	2-DOOR COUPE	4-DOOR SEDAN
H-3	Seat cushion height	9.7		
H11	Entrance height	30.4		31.3
H13	Steering wheel thigh clearance	3.6		
H30	H point to heel point	7.3		
H32	Seat cushion deflection	3.3		
H50	Upper body opening to ground	48.2		49.1
H58	H point rise	0.7		
H61	Effective headroom	38.2		39.1
H70	H point to body O line	12.8		
H75	Effective 'T' point headroom	38.4		39.3
W3	Shoulder room	56.6		
W5	Hip room	53.3		
L7	Steering wheel torso clearance	13.0		
L17	H point travel	4.7		
L34	Effective leg room	41.7		



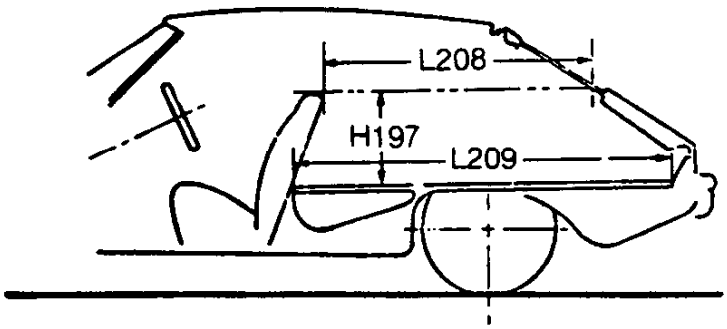
REAR COMPARTMENT

H8	Seat cushion height	13.3	14.1
H12	Entrance height	–	30.3
H31	H point to heel point	10.5	11.6
H33	Seat cushion deflection	5.2	4.9
H51	Upper body opening to ground	–	48.1
H63	Effective headroom	36.7	37.1
H71	H point to body O line	12.6	13.7
H76	Effective 'T' point headroom	36.5	36.8
W4	Shoulder room	55.3	56.7
W6	Hip room	52.8	53.6
L3	Rear compartment room	24.0	25.4
L50	H point couple distance	30.8	32.7
L51	Effective leg room	33.2	35.2

LUGGAGE COMPARTMENT

CODE	DESCRIPTION	2-DOOR HATCHBACK COUPE	2-DOOR COUPE	4-DOOR SEDAN
H195	Liftover height		27.4	
V1	Usable luggage capacity (cu.ft.) (a)	--	13.4	13.0

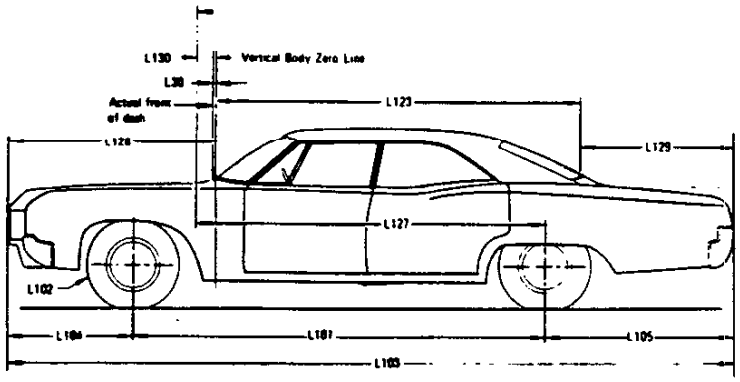
(a) Corporation "H" (shoe box) method of measurement is used.



HATCHBACK CARGO SPACE

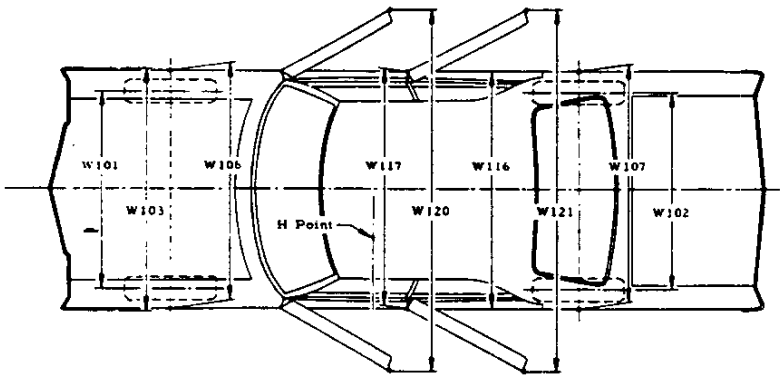
W4	Shoulder room – Rear		55.3
H197	Front seat back to load floor height		14.4
L208	Cargo length at - Front seat back height		49.7
L209	Cargo length at floor - Front seat		76.6
V3	Total Hatchback - cargo index Volume (cu. ft.)		29.2

EXTERIOR DIMENSIONS



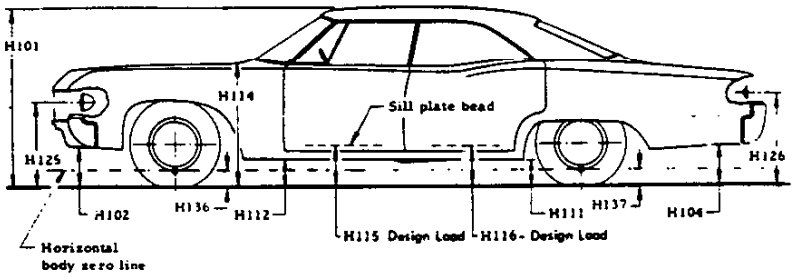
LENGTHS

CODE	DESCRIPTION	2-DOOR HATCHBACK COUPE	2-DOOR COUPE	4-DOOR SEDAN
L101	Wheelbase	111.0		
L102	Tire size (standard)	Standard E78-14, Concours FR78-14		
L103	Overall length	196.7 (Concours models with I/strips 197.7)		
L104	Overhang, front	33.9 (Concours model with I/strips 34.4)		
L105	Overhang, rear	51.8 (Concours models with I/strips (52.3)		
–	Overall length – less bumpers	186.7		
L123	Body upper structure length at car center line	101.0		96.8
L127	Body O line to C/L of rear wheels	93.0		
L128	Front end length at center line	56.4		
L129	Rear end length at center line	28.1		32.3
L125	Body zero plane to windshield cowl point	10.0		
L30	Body O line to actual front of dash	0.5		



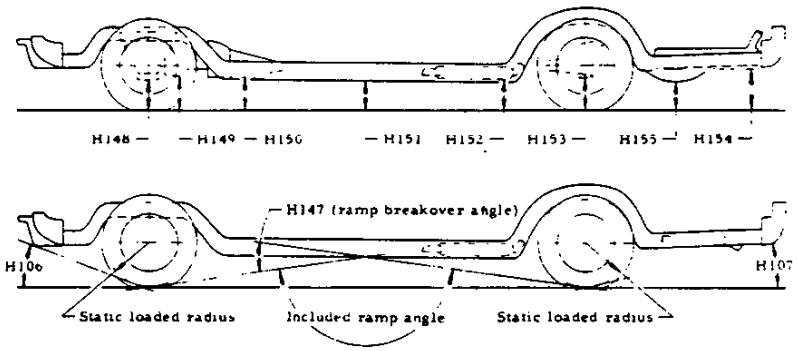
WIDTHS

W101	Tread-Front	61.3	
W102	Tread-rear	59.0	
W103	Maximum overall width of car	72.2	
W106	Front fender overall width	72.2	
W107	Rear fender overall width	70.5	
W116	Maximum overall width of body	72.2	
W117	Maximum body width at number 2 pillar	–	70.7
W120	Overall car width, front doors open	144.8	127.7
W121	Overall car width, rear doors open	–	126.5



HEIGHTS

CODE	DESCRIPTION	2-DOOR HATCHBACK COUPE	2-DOOR COUPE	4-DOOR SEDAN
H101	Overall height (design)	52.7		53.6
H102	Front bumper to ground	12.1		
H104	Rear bumper to ground	11.1		
H111	Rocker panel to ground - rear	7.3		
H112	Rocker panel to ground - front	8.1		
H114	Hood at rear to ground	36.2		
H115	Step height - front (design)	12.6		
H116	Step height - rear (design)	12.3		
H125	Headlamp to ground	25.3		
H126	Tail lamp to ground	23.8		
H136	Body O line to ground - front	5.0		
H137	Body O line to ground - rear	4.2		



CLEARANCES

H106	Angle of approach (degrees)	25°46'
H107	Angle of departure (degrees)	16°31'
H147	Ramp breakover angle (degrees)	13°58'
H148	Front suspension to ground	5.7
H149	Oil pan to ground	4.8
H150	Flywheel housing to ground	5.1
H151	Frame to ground	4.6
H152	Exhaust system to ground	4.8
H153	Rear axle to ground	6.6
H154	Fuel tank to ground	7.1
H155	Tire well to ground	14.7
H156	Minimum ground clearance	4.8 (a)

(a) Catalytic converter

NOVA

MODEL DESIGNATION	BASE ENGINE	VEHICLE TYPE	SHIPPING WEIGHT			CURB WEIGHT		
			Front	Rear	Total	Front	Rear	Total
1XX17	250 Cu.In. L6	2-Door Hatchback Coupe	1772	1499	3271	1754	1625	3381
1XX27	250 Cu.In. L6	2-Door Coupe	1764	1375	3139	1746	1503	3249
1XX69	250 Cu.In. L6	4-Door Sedan	1761	1413	3174	1744	1540	3284
1XY17	250 Cu.In. L6	2-Door Hatchback Coupe	1821	1557	3378	1803	1685	3488
1XY27	250 Cu.In. L6	2-Door Coupe	1833	1450	3283	1816	1577	3393
1XY69	250 Cu.In. L6	4-Door Sedan	1849	1480	3329	1832	1607	3439

MODEL TYPE

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

CURB WEIGHT: Shipping weight plus gasoline to capacity.

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

OPTIONAL EQUIPMENT

RPO	OPTION	WITH	WEIGHT
AU3	Electric Door Locks	2-Door Models	+ 7
		4-Door Models	+ 13
A31	Power Windows	2-Door Models	+ 10
		4-Door Models	+ 26
B37	Floor Mats, Front and Rear		+ 8
C09	Exterior Soft Roof Cover		+ 6
C50	Defogger, Rear Window		+ 4
C60	Air Conditioning	With L6 Engine	+ 66
		With V8 Engines	+ 87
D55	Floor Console	3-Speed Transmission	+ 4
		4-Speed Transmission	+ 4
		Automatic Transmission	+ 9
F41	Spec. Perf. Front and Rear Suspension		+ 12
F40	Heavy Duty Front and Rear Suspension		+ 2
J50	Power Brakes		+ 9
N41	Power Steering	L6 Engine	+ 32
		V8 Engine	+ 30
UA1	Heavy Duty Battery	With L6 Engine	+ 11
		With V8 Engine	+ 10
UM1	Radio AM Pushbutton and Stereo Tape		+ 16
UM2	Radio AM/FM Pushbutton and Stereo Tape		+ 17
U58	Radio AM/FM Stereo		+ 11
U63	Radio AM Pushbutton		+ 7
U69	Radio AM/FM Pushbutton		+ 8
ZJ7	Special Wheel, Hub Cap and Trim Ring	With 1XX-1XY17	+ 14
		With 1XX-1XY27-69	+ 18
Base	250 Cu. In. 6 Cyl. Engine	Turbo Hydra-Matic Trans.	+ 27
LG3	305 Cu. In. V8 Engine	With 3-Speed Trans.	+113
		With Turbo Hydra-matic Trans.	+140
LM1	350 Cu. In. V8 Engine	With 4-Speed Trans.	+117
		With Turbo Hydra-matic Trans.	+132

ALPHABETICAL OPTION INDEX

(Not for Ordering Purposes)

Option Number	Description
AK1	BELTS, DELUXE: Color-Keyed Seat and Shoulder
AU3	DOOR LOCK SYSTEM, POWER
A01	GLASS, SOFT-RAY TINTED: All Windows
A20	WINDOWS: Swing-Out Rear Side
A31	WINDOWS: Power
B37	FLOOR COVERING: Mats, Color-Keyed Floor. Front and Rear
B80	MOLDINGS: Roof Drip
B84	MOLDINGS: Body Side
B93	MOLDINGS: Door Edge Guard
B96	MOLDINGS: Wheel Opening
CD4	WINDSHIELD WIPER SYSTEM: Intermittent
C50	DEFOGGER, REAR WINDOW: Forced Air
C60	AIR CONDITIONING: Four-Season
D31	MIRROR: Inside Rearview, Day-Night
D33	MIRROR: Outside Rearview, LH Remote
D35	MIRRORS: Sport, LH Remote and RH Manual
D55	CONSOLE
D85	STRIPING, PIN: Body Side
F40	SUSPENSION EQUIPMENT: Suspension, Heavy-Duty Front and Rear
F41	SUSPENSION EQUIPMENT: Suspension, Sport
G80	AXLE, REAR: Positraction
G92	AXLE, REAR: Performance Ratio
J50	BRAKES, POWER
K30	SPEED CONTROL: Cruise-Master
LG3	ENGINE: 305-2 BBL V8
LM1	ENGINE: 350-4 BBL V8
L22	ENGINE: 250-1 BBL L6
M11	TRANSMISSION: 3-Speed Manual Floor Shift
M15	TRANSMISSION: 3-Speed Manual
M20	TRANSMISSION: 4-Speed Manual
M40	TRANSMISSION: Turbo Hydra-matic
NA2	EMISSION SYSTEMS: Standard Emission Equipment
NA6	EMISSION SYSTEMS: High Altitude Emission Equipment
N33	STEERING WHEEL: Comfortilt
N41	STEERING, POWER: Variable Ratio
N65	STOWAWAY SPARE TIRE
P01	WHEEL TRIM: Wheel Covers, Full
QBT	TIRES: FR78-14/B White Lettered (Radial)
QDV	TIRES: FR78-14/B Blackwall (Radial)
QDW	TIRES: FR78-14/B White Stripe (Radial)
QEG	TIRES: E78-14/B Blackwall (Bias Belted)
QEH	TIRES: E78-14/B White Stripe (Bias Belted)
UA1	BATTERY, HEAVY-DUTY
UF7	ECONOMINDER GAUGE PACKAGE
UM1	RADIO EQUIPMENT: Stereo Tape System w/AM Radio
UM2	RADIO EQUIPMENT: Stereo Tape System w/AM/FM Stereo Radio
U05	HORNS, DUAL
U14	INSTRUMENTATION: Special
U35	CLOCK: Electric
U58	RADIO EQUIPMENT: AM/FM Stereo Radio
U63	RADIO EQUIPMENT: AM Radio
U69	RADIO EQUIPMENT: AM/FM Radio
U76	RADIO EQUIPMENT: Windshield Antenna
U80	RADIO EQUIPMENT: Speaker, Rear Seat
V01	RADIATOR, HEAVY-DUTY
V30	BUMPER EQUIPMENT: Bumper Rub Strips and Guards
YF5	EMISSION SYSTEMS: California Emission Certification
ZJ3	INTERIOR DECOR PACKAGE
ZJ5	EXTERIOR DECOR PACKAGE
ZJ7	WHEEL TRIM: Wheels, Rally
ZJ9	LIGHTING, AUXILIARY
ZP2	EXTERIOR/INTERIOR OVERRIDE
11A	STRIPING: White
15A	STRIPING: Silver
19A	STRIPING: Black
49A	STRIPING: Green
54A	STRIPING: Gold
75A	STRIPING: Red
95A	STRIPING: Buckskin

VINYL ROOF AND PIN STRIPE SELECTION

	Vinyl Roof	Code	Exterior Color Availability		*Pin Stripe Color (With D85)
	Black	0B	Rec: 11, 13, 22, 51, 61, 63 or 78	Acc: 20, 36, 38, 44 or 75	Black
			Rec: 19		Gold
√	Blue, Light (Met)	DD	Rec: 22 or 29		Silver
			Rec: 11		Gold
	Buckskin, Light	UU	Rec: 11, 61, 63 or 69	Acc: 38 or 44	Buckskin
			Rec: 19 or 78	Acc: 36 or 75	Gold
	Firethorn (Met)	FF	Rec: 36		Gold
				Acc: 11	Red
	Green, Medium (Met)	GG	Rec: 11 or 44		Green
√	Silver	QQ	Rec: 13	Acc: 11 or 29	Black
			Rec: 19	Acc: 36 or 75	Silver
	White	WW	Rec: All except 11 or 13	Acc: 13	White
			Rec: 11		Gold
	Vinyl Roof with non recommended or acceptable paint.				White

COLOR AND TRIM SELECTION

STANDARD INTERIORS

Seat, Headliner and Door Trim Color	Black	Blue	Buck-skin	Fire-thorn	White	White	White	White
Instrument Panel Pad and Carpet Color	Black	Blue	Saddle	Fire-thorn	Aqua	Black	Blue	Fire-thorn

Model	Seat Type				
1XX27 - 1XX69	Plaid Cloth Bench	R9B1		RUS1	RFF1
	Vinyl Bench		V0D1	VUS1	VFF1
1XX17	Vinyl Bench		V0D1	VUS1	VFF1

CUSTOM INTERIORS

(THE FOLLOWING TRIMS CONTAIN DELUXE SEATS, DOOR TRIM PANELS, HEADLINER, ACOUSTIC MATERIALS AND ZJ3 INTERIOR DECOR)

1XX27	Custom Cloth Bench		E0D1		EFF1			
	Custom Sport Cloth Bench			SUS1				
	Custom Vinyl Bench	X0B1			XFF1	XWA1	XWB1	XWD1	XWF1
	Custom Vinyl Bucket	X0B2			XFF2	XWA2	XWB2	XWD2	XWF2
1XX69	Custom Cloth Bench		E0D1		EFF1			
	Custom Sport Cloth Bench			SUS1				
	Custom Vinyl Bench	X0B1			XFF1			

Exterior Paint Color	Color Code L	U	T									*Pin Stripe Color (With D85)
Aqua (Met)	38	38	-	A		A		R	R			Gold
Aqua (Met)/White	38	-	11	A		A		R	R			White
Black	19	19	-	R	A	R	R	R	R		R	Gold
Blue, Dark (Met)	29	29	-	A	R				A	R		Silver
Blue, Dark (Met)/ Blue, Light	29	-	22	A	R				A	R		Silver
Blue, Light (Met)	22	22	-	R	R				A	R		Silver
Blue, Light (Met)/White	22	-	11	R	R				A	R		White
Brown (Met)	69	69	-			R			A			Buckskin
Brown (Met)/ Buckskin, Light	69	-	61			R			A			Buckskin
Buckskin, Light	61	61	-	R		R	R		A			Buckskin
Buckskin (Met)	63	63	-	R		R			A			Buckskin
Firethorn (Met)	36	36	-	A		R	R		A		R	Gold
Green, Medium (Met)	44	44	-	A		A			A			Green
Green, Medium (Met)/ White	44	-	11	A		A			A			White
Orange (Met)	78	78	-	R		R			R			White
Orange (Met)/White	78	-	11	R		R			R			White
Red, Light	75	75	-	A		R	R		A		R	Gold
Red, Light/White	75	-	11	A		R	R		A		R	White
Silver	13	13	-	R			R		R			Black
White, Antique	11	11	-	R	R	R	R	R	R	R	R	Gold
Yellow, Bright	51	51	-	R					R			Black

L=Lower U=Upper T=Two-Tone

* PLEASE NOTE:
When ZP2 is specified to override Vinyl Roof and Exterior Color, option D85 striping standard color is white.
If the color of stripe (D85) as shown in the charts is not desired, one of the following options may be ordered instead of D85 Stripe.
11A=White; 15A=Silver; 19A=Black; 49A=Green; 54A=Gold; 75A=Red; 95A=Buckskin

POWER TEAMS

(Refer to next page for option availability and application)

ENGINE	OPTION CONDITION	AXLE RATIO 2.56	2.73	3.08
L22	w/o NA6	-	Std	G92
	w/NA6	-	-	Std
LG3	M11 or M15	-	Std	-
	M40	Std	-	-
LM1	M20	-	-	Std
	M40 w/o NA6	Std	-	G92
	w/NA6	-	-	Std

NOVA

REFER STOPS UPDATE

Model

1XX17 Nova Hatchback Coupe
1XX27 Nova Coupe
1XX69 Nova 4-Door Sedan

← COLOR AND TRIM SELECTION

MUST ORDER ONE: ENGINES

ALL EXCEPT CALIFORNIA REGISTRATION (N/A YF5)
Below 4000 Foot Altitude (REQS NA2)
___ L22 250-1 BBL L6
___ LG3 305-2 BBL V8 (Reqs J50 Brakes)
___ LM1 350-4 BBL V8 (Reqs J50 Brakes and M20 or M40 Trans)

Above 4000 Foot Altitude (REQS NA6)
___ L22 250-1 BBL L6 (Reqs M40 Trans)
___ LM1 350-4 BBL V8 (Reqs M40 Trans and J50 Brakes)

CALIFORNIA REGISTRATION ONLY (REQS YF5)
___ L22 250-1 BBL L6 (Reqs M40 Trans)
___ LG3 305-2 BBL V8 (Reqs M40 Trans and J50 Brakes)
___ LM1 350-4 BBL V8 (Reqs M40 Trans and J50 Brakes)

QUICK-SPEC

IF TIRE AND/OR TRANSMISSION IN QUICK-SPEC IS NOT DESIRED YOU MUST "PLUS" ANOTHER TIRE AND/OR TRANSMISSION OPTION.

		4 4 4 4 4 8 8 8 8 8 5 6 7 8 9 A A A A A
Transmission, Turbo Hydra-matic	M40	X X X X X
Steering, Power	N41	X X X X X
Radio, AM	U63	X X X N/INCL
Moldings, Body Side	B84	X X X X X
Tires, FR78-14/B White Stripe	QDW	X X X X X
Console (1XX27 only) (w/Bucket Seats only)	D55	X X X X X
Wheel Covers, Full	P01	X X N/INCL
Brakes, Power	J50	X X X X X
Glass, Soft-Ray Tinted	A01	X X X X
Air Conditioning, Four-Season	C60	X X X X
Exterior Decor Package	ZJ5	X X X X
Interior Decor Package	ZJ3	X X X X
Belts, Deluxe	AK1	X X X
Defogger, Rear Window	C50	X X X
Mats, Color-Keyed Floor	B37	X X X
Mirrors, LH Remote and RH Manual Sport	D35	X X X
Wheels, Rally	ZJ7	X X X
Bumper Rub Strips and Guards	V30	X X X
Moldings, Wheel Opening	B96	X X
Moldings, Door Edge Guard	B93	X X
Speaker, Rear Seat	U80	X X
Clock, Electric	U35	X X
Moldings, Roof Drip	B80	X X
Radio, AM/FM	U69	X X
Horns, Dual	U05	X X
Windows, Swing-Out Rear Side	A20	X
Lighting, Auxiliary	ZJ9	X
Door Lock System, Power	AU3	X
Steering Wheel, Comfortilt	N33	X

PLEASE REVIEW OPTION RESTRICTIONS BEFORE ORDERING

Q-S OPTION

486 C60 AIR CONDITIONING: Four-Season (Incls V01 Rad w/L22 Eng)
AXLES, REAR:
___ G92 --Performance Ratio (See Power Teams Chart)
___ G80 --Positraction
___ UA1 BATTERY, HEAVY-DUTY
487 AK1 BELTS, DELUXE: Color-Keyed Seat and Shoulder (N/A Black or Black and White Interior Trim)
485 J50 BRAKES, POWER
487 V30 BUMPER EQUIPMENT: Bumper Rub Strips and Guards, Front and Rear
488 U35 CLOCK, ELECTRIC: (Incl w/U14 Inst)
485 D55 CONSOLE: (1XX27 only) (Reqs Bucket Seats) (N/A M15 Trans)
487 C50 DEFOGGER, REAR WINDOW: Forced Air
489 AU3 DOOR LOCK SYSTEM, POWER
___ UF7 ECONOMINDER GAUGE PACKAGE: (N/A U14 Inst)
EMISSION SYSTEMS: (MUST ORDER ONE)
___ YF5 --California Emission Certification (N/A NA6 Altitude) (Reqs M40 Trans)
___ NA6 --High Altitude Emission Equipment (N/A LG3 Eng) (Reqs M40 Trans)
___ NA2 --Standard Emission Equipment (N/A YF5 Calif or NA6 Altitude)
486 ZJ5 EXTERIOR DECOR PACKAGE: (Incls B84 Mldg)
487 B37 FLOOR COVERING: Mats, Color-Keyed Floor, Front and Rear
486 A01 GLASS, SOFT-RAY TINTED: All Windows
488 U05 HORNS, DUAL
___ U14 INSTRUMENTATION: Special (Incls U35 Clock)
486 ZJ3 INTERIOR DECOR PACKAGE: (Incls D31 Mir) (Incl w/Custom Trims)
489 ZJ9 LIGHTING, AUXILIARY
MIRRORS:
___ D31 --Inside Rearview, Day-Night (Incl w/ZJ3 Int Decor or Custom Int)
D33 --Outside Rearview, LH Remote
487 D35 --Sport, LH Remote and RH Manual
MOLDINGS:
485 B84 --Body Side (Incl w/ZJ5 Ext Decor)
488 B93 --Door Edge Guard
488 B80 --Roof Drip (Incl w/ Vinyl Roof)
488 B96 --Wheel Opening (N/A D85 Striping)
___ V01 RADIATOR, HEAVY-DUTY: (Incl w/C60 Air w/L22 Eng)
RADIO EQUIPMENT:
485 U63 --AM Radio
488 U69 --AM/FM Radio
___ U58 --AM/FM Stereo Radio
___ UM1 --Stereo Tape System w/AM Radio
UM2 --Stereo Tape System w/AM/FM Stereo Radio
488 U80 --Speaker, Rear Seat (Reqs U63 or U69 Radio)
___ U76 --Windshield Antenna (Incl w/above Radio Equip)
___ ... ROOF COVER, VINYL: (See Color and Trim Chart)
___ √K30 SPEED CONTROL: Cruise-Master (Reqs M40 Trans and J50 Brakes)
485 N41 STEERING, POWER: Variable Ratio
489 N33 STEERING WHEEL: Comfortilt (N/A M15 Trans)
___ N65 STOWAWAY SPARE TIRE: (Std on 1XX17)
___ D85 STRIPING, PIN: Body Side
SUSPENSION EQUIPMENT: Suspension
___ F40 --Heavy-Duty Front and Rear
___ F41 --Sport (Reqs Radial Tires) (N/A L22 Eng or F40 Susp)
TIRES: (B/W: Blackwall, W/S: White Stripe, W/L: White Lettered)
--Bias Belted Ply (14/B)
___ QEG ---E78 B/W (Base)
___ QEH ---E78 W/S
--Steel Belted Radial Ply (14/B)
QDV ---FR78 B/W
485 QDW ---FR78 W/S
___ QBT ---FR78 W/L
TRANSMISSIONS:
___ M15 --3-Speed Manual (N/A LM1 Eng)
___ M11 --3-Speed Manual Floor Shift (N/A LM1 Eng)
___ M20 --4-Speed Manual (Reqs LM1 Eng)
485 M40 --Turbo Hydra-matic
WHEEL TRIM:
485 P01 --Wheel Covers, Full
487 ZJ7 --Wheels, Rally
WINDOWS:
A31 --Power
489 A20 --Swing-Out Rear Side (N/A 1XX69)
___ CD4 WINDSHIELD WIPER SYSTEM: Intermittent

NOTES

NOVA

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

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

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D&H†	List Price	Mfr's Suggested Retail Price
REFER TO DEALER ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION						
Radio Equipment:						
AM Radio	U63					72.00
AM/FM Radio	U69					137.00
AM/FM Stereo Radio	U58					226.00
Stereo Tape System with AM Radio	UM1					209.00
Stereo Tape System with AM/FM Stereo Radio	UM2					324.00
Speaker, Rear Seat	U80					23.00
Windshield Antenna, included with radio	U76					17.00
Rally Equipment, Nova: Includes lower body side, over wheel opening and rear end panel striping, chromed diamond pattern grille, parking lamp accent, black painted headlamp bezels, Nova Rally nameplates, 14" x 6" rally wheels painted to match striping color with bright center hubs and wheel trim rings	Z26					186.00
Speed Control: *Cruise-Master*	K30					84.00
Steering, Power: *Variable Ratio*	N41					146.00
Steering Wheel: *Comfortilt*	N33					63.00
Stowaway Spare: Standard on Hatchback Coupe	N65					16.16
Suspensions:						
Heavy-Duty Front and Rear Includes special front stabilizer, front and rear springs and matching rear shock absorbers						
Without V8 engine						
Without N41 steering or steel belted radial ply tires	F40					31.00
With N41 steering or steel belted radial ply tires	F40					8.00
With V8 engine	F40					8.00
Sport Includes rear stabilizer, special front stabilizer, special front and rear shock absorbers and 14" x 7" wheels	F41					36.00
Tires:						
E78-14/B Bias Belted Ply Blackwall (Standard)	QEG			*NO ADDITIONAL CHARGE*		
E78-14/B Bias Belted Ply White Stripe						
2-Door Coupe and Sedan						
Without N65 stowaway spare	QEH					41.00
With N65 stowaway spare	QEH					33.00
Hatchback Coupes	QEH					33.00
FR78-14/B Steel Belted Radial Ply Blackwall						
2-Door Coupe or Sedan						
Without N65 stowaway spare	QDV					107.10
With N65 stowaway spare	QDV					85.68
Hatchback Coupe	QDV					85.68
FR78-14/B Steel Belted Radial Ply White Stripe						
2-Door Coupe and Sedan						
Without N65 stowaway spare	QDW					150.10
With N65 stowaway spare	QDW					120.68
Hatchback Coupe	QDW					120.68
FR78-14/B Steel Belted Radial Ply White Lettered						
2-Door Coupe and Sedan						
Without N65 stowaway spare	QBT					163.10
With N65 stowaway spare	QBT					130.68
Hatchback Coupe	QBT					130.68
Transmissions:						
3-Speed Manual	M15			*NO ADDITIONAL CHARGE*		
3-Speed Manual Floor Shift, included with D55 console	M11					31.00
4-Speed Wide-Range Manual	M20					252.00
Turbo Hydra-matic	M40					289.00
Wheel Trim:						
Wheel Covers, Full	P01					35.00
Wheel Covers, Wire	N95					112.00
Wheels, Rally, Includes special wheels and center caps, bright lug nuts	ZJ7					65.00
Windows:						
Power, Electric						
Coupes	A31					114.00
Sedan	A31					158.00
Swing-Out Rear Side	A20					52.00

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

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

State and local taxes not included

NOVA

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

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

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D&H§	List Price	Mfr's Suggested Retail Price
REFER TO DEALER ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION						
Windshield Wiper System: *Intermittent*	C04					30.00

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

NOVA

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

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

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D&H§	List Price	Mfr's Suggested Retail Price
REFER TO DEALER ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION						
Econominder Gauge Package: Includes econominder, voltmeter and temperature gauges	UF7					47.00
Emission Systems:						
California Emission Certification. Includes all testing, equipment and /or certification necessary for registration in the State of California	YF5					70.00
High Altitude Emission Equipment	NA6					22.00
Standard Emission Equipment	NA2			*NO ADDITIONAL CHARGE*		
Exterior Decor Package: Includes bright side window and door frame.						
Without Z26 Nova Rally Equipment Also includes B84 moldings	ZJ5					78.00
With Z26 Nova Rally Equipment	ZJ5					38.00
Floor Covering: *Mats. Color-Keyed Floor.* 2 front and 2 rear	B37					18.00
Glass, Soft-Ray Tinted: *All Windows*	A01					51.00
Horns, Dual	U05					6.00
Instrumentation: *Special* Includes U35 clock, tachometer, voltmeter and temperature gauges located in instrument panel	U14					99.00
Interior Decor Package: Includes D31 mirror, cigarette lighter, glove compartment light, right front door jamb dome light switch and additional bright framing on instrument cluster Included with Custom Interior	ZJ3					27.00
Lighting, Auxiliary:						
(A) Ashtray Light						
(B) Courtesy Lights						
(C) Glove Compartment Light						
(D) Luggage Compartment Light						
(E) Underhood Light						
(F) Headlight Warning Buzzer						
(G) Front Door Jamb Switch						
(H) Rear Door Jamb Switches						
(I) Rear Compartment Light Switch						
Hatchback Coupe without ZJ3 Interior Decor Package. Includes A, B, C, E, F, G & I	ZJ9					36.00
Hatchback Coupe with ZJ3 Interior Decor Package Includes A, B, E, F & I	ZJ9					27.00
2-Door Coupe without ZJ3 Interior Decor Package or Custom Interior. Includes A, B, C, D, E, F & G	ZJ9					36.00
2-Door Coupe with ZJ3 Interior Decor Package or Custom Interior. Includes A, B, D, E & F.	ZJ9					27.00
4-Door Sedan without ZJ3 Interior Decor Package or Custom Interior. Includes A, B, C, D, E, F, G & H	ZJ9					41.00
4-Door Sedan with ZJ3 Interior Decor Package or Custom Interior. Includes A, B, D, E, F & H	ZJ9					32.00
Mirrors:						
Inside Rearview, Day-Night Included with ZJ3 Interior Decor Package	D31					8.00
Outside Rearview, LH Remote	D33					15.00
Sport, LH Remote and RH Manual.	D35					32.00
Moldings:						
Body Side. Includes black vinyl insert Included with ZJ5 Exterior Decor Package	B84					40.00
Door Edge Guard.						
Coupes	B93					9.00
Sedans	B93					14.00
Roof Drip. Included with vinyl roof	B80					17.00
Wheel Opening	B96					20.00
Pin Striping: *Body Side*	D85					28.00
Radiator, Heavy-Duty: Included with C60 air conditioning with L22 250-1 BBL engine	V01					29.00

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

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

' State and local taxes not included.

NOVA

1977 VEHICLES WITH STANDARD EQUIPMENT

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

Description	Model Number	Body Code	Wheel-base	Dealer Invoice Amount*	Dealer Price	Factory D&H§	List Price	Mfr's Sgt'd Retail Price★	Destination Charge & Group Number	Total
◆ 6-Cylinder Engine										
Hatchback Coupe	1XX17	—	111					3656.51	7.....	.....
2-Door Coupe	1XX27	—	111					3493.35	7.....	.....
4-Door Sedan	1XX69	—	111					3543.35	7.....	.....

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

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

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

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D&H§	List Price	Mfr's Suggested Retail Price
REFER TO DEALER ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION						
Interior Trim:						
*V**1 Vinyl Bench Seat*					*NO ADDITIONAL CHARGE*	
*B**1 Plaid Cloth Bench Seat*						20.00
Custom Interior Includes deluxe seat, door trim panels headliner, accoustic materials and ZJ3 Interior Decor Package						
E**1 Custom Cloth or S**1 Custom Sport Cloth Bench Seat						211.00
X**1 Custom Vinyl Bench Seat						191.00
X**2 Custom Vinyl Bucket Seats						272.00
Exterior Color:						
Paint.						
Solid					*NO ADDITIONAL CHARGE*	
Two-Tone Includes bright metal outline moldings						43.00
Roof Cover, Vinyl. Includes bright roof drip moldings						96.00
Engines: (Refer to Dealer Order Guide for Emission System Requirements)						
250-1 BBL L6	L22				*NO ADDITIONAL CHARGE*	
305-2 BBL V8	LG3					120.00
350-4 BBL V8	LM1					210.00
Air Conditioning: *Four-Season.* Includes 55-amp generator and increased cooling						
Without V8 engine. Also includes V01 radiator	C60					517.00
With V8 engine	C60					488.00
Axles, Rear:						
Performance Ratio	G92					14.00
Positraction	G80					54.00
Battery, Heavy-Duty	UA1					17.00
Belts, Deluxe: *Color-Keyed Seat and Shoulder* Includes plastic buckles. (Standard belts and plastic buckles are black) Replacing standard number of belts.						
Coupes and Sedans with bench seat—6 seat and 2 front shoulder	AK1					19.00
Coupes with bucket seats—5 seat and 2 front shoulder	AK1					16.00
Brakes, Power	J50					63.00
Bumper Equipment: *Bumper Rub Strips and Guards* Front and Rear. Includes black resilient impact strips	V30					70.00
Clock, Electric: Included with U14 instrumentation	U35					19.00
Console: Includes M11 3-speed manual floor shift transmission without M20 4-speed transmission or M40 Turbo Hydra-matic transmission	D55					75.00
Defogger, Rear Window: *Forced-Air.*	C50					48.00
Door Lock System, Power: *Electric*						
Coupe	AU3					68.00
Sedan	AU3					96.00

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

1977
MVMA
Specifications Form

Passenger Car

Manufacturer	Car Line	
CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	NOVA	
Mailing Address Chevrolet Engineering Center 30003 Van Dyke Warren, Michigan 48090	Model Year 1977	Issued: Sept. 1976 Revised (•) Feb., 1977

Sheets revised - 11, 16

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MVMA Specifications Form
Passenger Car

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NOTES

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

MVMA Specifications Form
Passenger Car

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

Car Models

Model Description	Make, Car line, Series, Body Type (Mfgr's Model Code)	Max. Number of Passengers (Front/Rear)	
	Model Number	Front	Rear
NOVA			
2-Door Hatchback Coupe	1XX17	3	3
2-Door Coupe	1XX27	3	3
4-Door Sedan	1XX69	3	3
NOVA CONCOURS			
2-Door Hatchback Coupe	1XY17	3	3
2-Door Coupe	1XY27	3	3
4-Door Sedan	1XY69	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 NOVA
Model Year 1977 Issued 9/76 Revised (●)

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

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

	SAE Ref. No.	Body Type: Hatchback Coupe	2-Door Coupe	4-Door Sedan
Width				
Tread - Front	W101		61.3	
Tread - Rear	W102		59.0	
Maximum overall car width	W103		72.2	
Body width at No. 2 pillar	W117		- -	70.7
Max. front doors open	W120		144.8	127.7
Max. rear doors open	W121		- -	126.5
Length				
Body "O" to front of dash	L 30		-0.5	
Wheelbase	L101		111.0	
Overall car length (a)	L103		196.7	
Overhang - front (b)	L104		33.9	
Overhang - rear (c)	L105		51.8	
Body upper structure length	L123		101.0	96.8
Body "O" line to C/L of rear wheel	L127		93.0	
Body "O" line to w/s cowl point	L125		10.0	
Height				
Passenger Distribution (front & rear)	*		2-3	
Trunk/Cargo load (lbs.)	*		0	
Overall height	H101		53.6	
Cowl height	H114		36.2	
Deck height	H138			
Rocker panel - front: To ground	H112'		8.2	
Rocker panel - front: From front wheel C/L	H112'		- -	
Bottom of front door to ground	H133		11.2	11.3
Rocker panel - rear: To ground	H111		6.9	
Rocker panel - rear: From rear wheel C/L	H111			
Bottom of rear door to ground	H135		- -	10.3
Windshield slope angle	H122		53.5°	
Ground Clearance				
Bumper to ground - front	H102		12.1	
Bumper to ground - rear	H104		11.1	
Angle of approach	H106		25.46	
Angle of departure	H107		16.31	
Ramp breakover angle	H147		13.58	
Rear axle differential to ground	H153		6.6	
Min. running clearance (Specify)	H156		4.8 (d)	

NOVA CONCOURS
With Impact Strips
COUPES & SEDANS

(a) L103 - 197.7
(b) L104 - 34.4
(c) L105 - 52.3

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

(d) Catalytic Converter.

MVMA Specifications Form
Passenger Car

Car Line NOVA
Model Year 1977 Issued 9/76 Revised (●)

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

	SAE Ref. No.	Body Type: 2-Door Hatchback Coupe	2-Door Coupe	4-Door Sedan
Front Compartment				
H Point to body "D" line	L31	42.6		
Effective head room	H61	38.2		39.1
Effective T Point head room	H75	38.4		39.3
Max. eff. leg room - accelerator	L34	41.7		
H Point to Heel point	H30	7.3		
H Point travel	L17	4.7		
Shoulder room	W3	56.6		
Hip room	W5	53.3		
Upper body opening to ground	H50	48.2		49.1
Steering Wheel Angle Vertical	H-18	22°		
Back Angle Front	L-40	26.5°		
Rear Compartment				
H Point couple distance	L50	30.8		32.7
Effective head room	H63	36.7		37.1
Effective T Point head room	H76	36.5		36.8
Min. effective leg room	L51	33.2		35.2
H Point to Heel point	H31	10.5		11.6
Min. knee room	L48	-0.6		0.4
Rear Compartment room	L3	24.0		25.4
Shoulder room	W4	55.3		56.7
Hip room	W6	52.8		53.6
Upper body opening to ground	H51	- -		48.1
Luggage Compartment				
Usable luggage capacity (cu. ft.)	V1	--	13.4	13.0
Liftover height	H195	27.4		
Position of spare tire storage		Horizontal-Center forward area of trunk floor (b)		
Method of holding lid open		Torsion rods (c)		

(a) Corporation "H" (shoe box) Method of measurement is used.
(b) Hatchback Coupe, Horizontal-under cargo floor.
(c) Hatchback Coupe, Hydropneumatic telescopic tubes

MVMA Specifications Form
Passenger Car

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

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

	SAE Ref. No.	Body Type: 2-Door Hatchback Coupe

Station Wagon — Third Seat

Shoulder Room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	Not Applicable
Effective T Point head room	H89	
Seat facing direction		

Station Wagon — Cargo Space

Cargo length at floor - front seat	L202	
Cargo length at belt - front seat	L204	
Cargo width - Wheelhouse	W201	
Opening width at belt	W204	Not Applicable
Maximum cargo height	H201	
Rear opening height	H202	
Cargo volume index (cu ft) $\frac{W4 \times L204 \times H201}{1728}$	V2	

Hatchback — Cargo Space

Front Seat Back to Load Floor Height	H197	14.4
Cargo Length at Front Seat Back Height	L208	49.7
Cargo Length at Floor - Front Seat	L209	76.6
Cargo volume index (cu ft) $\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728}$	V3	29.2

MVMA Specifications Form
Passenger Car

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

Power Teams (Indicate whether standard or optional)

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

SERIES AVAILABILITY #	ENGINE (1) Displ. cu in	Carb.	Compr. Ratio	SAE Net @ RPM BHP	SAE Net @ RPM Torque	Exhaust System*	TRANSMISSION	AXLE RATIO * (Std. first) (Indicate A/C ratio) ** A(std)	B(opt)	C(std)
All Models Base - All States	250 L6 4.1ℓ L22	1-bbl	8.3:1	110 @ 3800	195 @ 1600	S	3-spd. Manual (3.11:1 Ratio) (Not Available in California)	2.73	3.08	-
							3-spd. Auto (optional)	2.73	3.08	3.08
All Models Optional - All States	305 V8 5.0ℓ LG3	2-bbl	8.5:1	145 @ 3800	245 @ 2400	S	3-spd. Manual (3.11:1 Ratio) (Not Available in California)	2.73	-	-
							3-spd. Auto. (optional)	2.56	-	-
All Models Optional - All States	350 V8 5.7ℓ LM1	4-bbl	8.5:1	170 @ 3800	270 @ 2400	S	4-spd. Manual (2.85 Ratio) (Not Available in California)	3.08	-	-
							3-spd. Auto (optional)	2.56	3.08	3.08

- 'Base' and 'optional' refer to engine availability.

* - Positraction available optionally for all ratios.

**- Same ratios available with air conditioning

'A' & 'B' - Below 4000 feet altitude in 49 states and all altitudes in California

'C' - Above 4000 feet altitude in all states except California

(1) - California only: -

ENGINE	BHP	TORQUE
250 L6	90 @ 3600	180 @ 1600
305 V8	135 @ 3800	240 @ 2000
350 V8	160 @ 3800	260 @ 2400

*S — Single D — Dual

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	Engine Displacement		
	L-6 250 C. I. L22	V8 305 C. I. LG3	V8 350 C. I. LM1

Engine — General

Type, no cyls, valve arr		In-line 6 OHV	90° V8 OHV	
Bore and stroke (nominal)		3.875 X 3.53	3.736 X 3.48	4.00 X 3.48
Piston displacement cu in		250	305	350
Bore spacing (C.L to C.L)			4.40	
No system (front to rear)	L Bank	1-2-3-4-5-6	1-3-5-7	
	R Bank	In-line	2-4-6-8	
Firing Order		1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Cylinder Head Material		Cast alloy iron		
Cylinder Block Material		Cast alloy iron		
Cyl Sleeve-Wet dry, none		None		
Number of mtg points	Front	Two		
	Rear	One		
Engine installation angle		3° 16'		
Recommended fuel regular — premium		Unleaded		
Cylinder Head Volume (cc)		71.28	60.52	75.47
Head Gasket Thickness (Compressed)		.033	.021	.021
Head Gasket Volume (cc)		7.08	3.98	4.58
Deck Clearance (minimum) (above or below block)		.025 below	.025 below	.025 below
Minimum Combustion Chamber Volume (cc)		68.00	59.52	74.47

Engine — Pistons

Material			Cast aluminum alloy		
Description and finish			Sump head; closed, slipper skirt		Sump head; closed slipper skirt
Weight (piston only) oz			20.24	20.80	21.33
Clearance (limits)	Top land		.0245 - .0335	.0245 - .0335	.0235 - .0325
	Skirt	Top	.0005 - .0015 (a)	.0017 - .0042 (b)	.0007 - .0017 (b)
		Bottom			
Ring groove diameter	No 1 ring		3.434 - 3.444	.2003 - .2073	3.541 - 3.556
	No 2 ring		3.434 - 3.444	.2003 - .2073	3.541 - 3.556
	No 3 ring		3.446 - 3.456	.2103 - .2193	3.577 - 3.592

(a) Measured 1.66 from top of piston
(b) Measured 1.56 from top of piston

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	Engine Displacement		
	L6 250 C.I. L-22	V-8 305 C.I. LG3	V8 350 C.I. 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		
Rings - Compression	Description - material coating etc	Upper	Cast alloy iron, barrel face (a)	
		Lower	Cast alloy iron, inside bevel, tapered face (b)	
	Width	(c)	(d)	(e)
	Gap	.010 - .020	Upper .010 - .020; lower .010 - .025	
Oil	Description - material coating, etc	Multipiece (2 rails and one space expander) Rails - steel, chrome plated O.D. expander-stainless steel		
	Width	.1850 - .1879	.1859 - .1879	.1850 - .1870
	Gap	.015 - .055	.010 - .035	.015 - .055
Expanders		In oil ring assembly		

Engine - Piston Pins

Material			Chromium steel	
Length			2.990 - 3.010	
Diameter			.9270 - .9273	
Type	Locked in rod, in piston, floating etc		Locked in rod	
	Bushing	In rod or piston	None	
		Material	-----	
Clearance	In piston	.00015 - .00025		.00025 - .00035
	In rod			
Direction & amount offset in piston			Major thrust side .060	

Engine - Connecting Rods

Material		Drop forged steel	
Weight (oz.)		14.24	13.70
Length (center to center)		5.695 - 5.705	
Bearing	Material & Type	Premium aluminum	
	Overall length	.807	.797
	Clearance (limits)	.0007 - .0027	.0013 - .0025
	End Play	.007 - .016	.006 - .016

(a) Wear resistant coating, molydenum inlay and graphite impregnated on L6-250, chrome flash on V8-305 and V8-350
(b) Wear resistant coating; reverse twist tapered face on 305 & 350 V8.
(c) Upper .0775 - .0780; lower .0770 - .0780
(d) Upper .0770 - .0780; lower .0770 - .0775
(e) Upper .0775 - .0780; lower .0770 - .0775

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	Engine Displacement		
	L6 250 C.I. L22	V8 305 C.I. LG3	V8 350 C.I. LM1

Engine—Crankshaft

Material			Cast nodular iron	
Vibration damper type			Rubber mounted inertia	
End thrust taken by bearing (No.)			7	5
Crankshaft end play			.002 - .006	.002 - .007
Main bearing	Material & type		(a)	(b)
	Clearance		.0003 - .0029	(c)
	Journal dia. and bearing overall length	No. 1	2.2999 X .752	2.4502 X .752
		No. 2	2.2999 X .752	2.4502 X .752
		No. 3	2.2999 X .752	2.4502 X .752
		No. 4	2.2999 X .752	2.4502 X .752
		No. 5	2.2999 X .752	2.4508 X 1.180
		No. 6	2.2999 X .752	None
		No. 7	2.2999 X .760	None
	Dir. & amt. cyl. offset		None	
	No. bolts/main org. cap		14 bolts/7 caps	10 bolts/5caps
Crankpin journal diameter			1.999 - 2.000	2.099 - 2.100

Engine—Camshaft

Location			(d)	In block above crankshaft
Material			Cast alloy iron	
Bearings	Material		Steel backed babbitt	
	Number		4	5
Type of Drive	Gear or chain		Gear	Chain
	Crankshaft gear or sprocket material		Cast Iron	Sintered Iron
	Camshaft gear or sprocket material		Alumimum Alloy	Nylon teeth with aluminum head
	Timing chain	No. of links	None	46
		Width	None	.625
		Pitch	None	.500

(a) #1 thru #6 premium aluminum #7 copper lead alloy except lower with automatic trans. - premium aluminum.

(b) #1 thru #4 and #5 lower (auto. trans.) - premimum aluminum .
#5 upper (auto trans) copper lead alloy
#5 upper and #5 lower (manual trans) copper lead alloy

(c) #1 = .0008 - .0020
#2, 3, 4 = .0011 - .0023
#5 = .0017 - .0033

(d) Above and to right of crankshaft

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	Engine Displacement		
	L-6 250 C.I. L-22	V8 305 C.I. LG3	V8 350 C.I. LM1

Engine—Valve System

Hydraulic lifters (Std opt NA)			Standard		
Valve rotator type (intake exhaust)			None	Exhaust	
Push rods (dia length material) (a)			.3125 X 9.612	.3125 X 7.724	
Rocker ratio			1.75:1	1.50:1	
Operating tappet clearance (indicate hot or cold)	Intake		Zero		
	Exhaust		Zero		
Timing (based on top of ramp points)	Intake	Opens (°BTC)	16°	28°	28°
		Closes (°ABC)	48°	64°	72°
		Duration (deg.)	244°	272°	280°
	Exhaust	Opens (°BBC)	64°	78°	78°
		Closes (°ATC)	50°	30°	30°
		Duration (deg.)	294°	288°	288°
	Valve open overlap (deg.)		66°	58°	58°
Intake	Material		Alloy steel aluminized face for L6 250 V8 305		
	Overall length		4.902 - 4.922		4.870 - 4.889
	Actual overall head dia		1.715 - 1.725	1.715 - 1.725	1.935 - 1.945
	Angle of seat & face (deg.)		46° seat; 45° face		
	Seat insert material		None		
	Stem diameter		.3410 - .3417		
	Stem to guide clearance		.0010 - .0027		
	Lift (@ zero lash)		.3880	.3727	.3900
	Outer spring press & length	Valve closed (lb @ in.)	78 - 86 @ 1.66	76 - 84 @ 1.70	
		Valve open (lb @ in.)	170 - 180 @ 1.26	194 - 206 @ 1.25	
	Inner spring press & length	Valve closed (lb @ in.)	None	Spring damper	
		Valve open (lb @ in.)	None	Spring damper	
Exhaust	Material		High alloy steel, aluminized face		
	Overall length		4.913 - 4.933		4.910 - 4.930
	Actual overall head dia		1.495 - 1.505		1.495 - 1.505
	Angle of seat & face (deg.)		46° seat; 45° face		
	Seat insert material		None		
	Stem diameter		.3410 - .3417		
	Stem to guide clearance		.0010 - .0027		
	Lift (@ zero lash)		.4051	.4100	.4100
	Outer spring press & length	Valve closed (lb @ in.)	76 - 86 @ 1.66	76 - 84 @ 1.61	
		Valve open (lb @ in.)	170 - 180 @ 1.26	194 - 206 @ 1.16	
	Inner spring press & length	Valve closed (lb @ in.)	None	Spring damper	
		Valve open (lb @ in.)	None	Spring damper	

(a) Welded steel tubing

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Engine Displacement

L6 250 C.I. L22	V8 305 C.I. LG3	V8 350 C.I. LM 1

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	Centrifugally oiled from camshaft bearing
	Cylinder walls	Splash	Pressure jet cross sprayed
Oil pump type		Gear	
Normal oil pressure (lb @ engine rpm)		36 - 41 PSI @ 2000	32 - 40 PSI @ 2000
Oil press sending unit (elect or mech)		Electric	
Type oil intake (floating, stationary)		Stationary	
Oil filter system (full flow, part, other)		Full flow	
Filter replacement (element, complete)		Complete	
Capacity of c/case less filter-refill (qt)		4	
Oil grade recommended (SAE viscosity and temperature range)		20° F and above - 20W-20, 10W-30, 10W - 40, 20W-40, 20W-50 0° to 60°F- 10W, 5W-30, 10W-40, 10W-30 Below 20° F- 5W-20, 5W-30	–
Engine service reqmt (SD, SE, etc)		SE	

Engine — Exhaust sy...

Type (single, single with cross-over, dual, other)		Single with Converter	Single with crossover and converter
Muffler No & type (reverse flow, straight thru, separate resonator)		One; reverse flow	
Resonator No & type		None	
Exhaust Pipe	Branch O D., wall thickness	2.25 X .078* (a)	2.50 X .078* (a) 2.00 X .078 (b) *
	Main O D., wall thickness	2.25 X .071 (c)	
	Material	Welded or seamless steel tubing	
Tail Pipe	O D & wall thickness	2.00 X .056 (d)	
	Material	Welded or seamless steel tubing	

*Laminated
(a) Exhaust pipe to converter
(b) Crossover
(c) Converter to muffler
(d) Dual tail pipes for LG3 & LM1

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Engine Displacement		
L6 250 C.I. L22	V8 305 C.I. LG 3	V8 350 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 (U S gals)		Approximately 21		
	Filler location		Behind, hinged rear license plate		
Fuel Pump	Type (elec or mech)		Mechanical		
	Locations		Lower right front of engine		
	Pressure range (a)		4.00 - 5.00	7.50 - 9.00	
Vacuum booster (std optional, none)			None		
Fuel Filter	Type		Fine mesh plastic strainer in gas tank and		
	Locations		paper filter element in carburetor inlet		
Carburetor	Choke type		Automatic		
	Intake manifold heat control (exhaust or water)		Exhaust		
	Air cleaner type	Standard	Thermostatically controlled, oil wetted paper element		
		Optional			
●	Idle speed (spec. neutral or drive)	Manual	750/N	600/N	700/N
		Automatic	550 (600 Calif.)/D	500/D	500/D
	Idle A/F mix		Not specified		

Carburetor Supplementary Information

Model Usage	Piston Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
ALL	250 L22	Manual Automatic	Rochester	17057013 17057014 (17057316)	One: 1-bbl	1.69
	305 LG3	Manual Automatic	Rochester	17057111 17057108 (17057412)	One; 2-bbl	1.69
	350 LM1	Manual Automatic	Rochester	17057203 17057202 (17057502)	One: 4-bbl	1.38 Prim. 2.25 Sec.

(a) 1800 RPM at pump outlet

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

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Engine Displacement		
L6 250 C.I. L22	V8 305 C.I. LG3	V8 350 C.I. LM1

Engine — Cooling System

Type system (pressure, pressure vented, atmospheric, other)		Pressure vented thru coolant recovery system		
Radiator cap relief valve pressure		15 PSI		
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at (°F)	192° - 198°		
Water pump	Type (centrifugal, other)			
	GPM 2000 pump rpm	21.0	22.7	22.7
	Number of pumps	one		
	Drive (V-belt, other)	V-belt		
	Bearing type	Permanently lubricated double row ball		
By pass recirculation type (inter., ext.)		Internal		
Radiator core type (cross-flow, vertical, cellular tube and fin, other)		Cross flow tube and center		
Cooling system capacity	With heater (qt.)	14.2	17.2	17.3
	Without heater (qt.)			
	Opt. equipment-specify (qt.)	15.0	17.9	18.0
Water jackets full length of cyl. (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Radiator hose	Lower — Number and type (molded, straight)	One, molded		
	Lower — Inside diameter	1.75		
	Upper — Number and type (molded, straight)	One, molded		
	Upper — Inside diameter	1.50		
	By-pass — Number and type (molded, straight)	None		
	By-pass — Inside diameter	None		
Fan	Number of blades & spacing	4-blade, staggered		
	Diameter	17.62	18.00	
	Ratio-fan to crankshaft rev	1.165:1	.949:1	
	Fan cutout type	None		
	Bearing type	Double row ball		
*Drive belts (indicate belt used by letter)	Fan	A	E (H)	
	Generator or alternator	A	E (H)	
	Water Pump	A	E (H)	
	Power Steering	B	F	
	Air Conditioning	C	G	
	Air injection	D	(H)	

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

*Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	← 34° - 38° →										
Nominal length (SAE)	38.00	49.00	52.50	38.00	44.50	36.00	54.50	48.00			
Width	.440	.380	.440	.380	.380	.380	.380	.380			

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Engine Displacement		
L6 250 C.I. L22	V8 305 C.I. LG3	V8 350 C.I. 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 6487935 (L6); 6487728 (V8)
		Location	Rocker cover-top rear L6 and left front V8
		Energy source (manifold vacuum, carburetor, other)	Manifold vacuum
		Control method (variable orifice, fixed orifice, other)	Variable orifice
	Complete System	Discharges (to intake manifold, other)	Intake Manifold
		Air inlet (breather cap, other)	Carburetor air cleaner
		Flame arrestor (screen, other)	Screen
Evaporative Emission Control	Fuel Tank	Thermal expansion volume (cu. ft.)	Approximately 10% of refill capacity
		Relief pressure (psi) and location	1.1 PSI
		Vacuum relief (psi) and location	.7 PSI
		Vapor-liquid separator type	Integral with fuel tank
		Vapor vented to (crankcase, canister, other)	Canister
	Carburetor	Vapor vented to (crankcase, canister, other)	Atmosphere L6 engines Internally vented V-8 engines
	Vapor Storage	Storage provision (crankcase, canister, other)	Canister
		Volume (cu. ft.) or capacity (grams)	Approximately 50 grams storage capacity
		Control valve type	Controlled by orifice and carburetor throttle body and throttle blade position.

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Engine Displacement	
L6-250; V8 305 (a) V8 350 (LM1) - all states except Calif.	L6-250; V8 350 (LM1) California only

Vehicle Emission Control

Exhaust Emission Control	Type (Air injection, engine modifications, other)		Engine modifications	Air Injection
	Air Injection Pump	Type		Semi-articulated vane type
		Displacement		19.3 cubic inch
		Drive ratio		1.15:1 (L6) 1.33:1 (V8)
		Drive type		Crankshaft pulley
		Relief valve (type)		Diverter Valve
		Filter (describe)		Centrifugal air cleaner
	Air Injection System	Air distribution (head, manifold, etc.)		Exhaust Pipe
		Point of entry		Exhaust pipe
		Injection tube i.d.		.2700
		Check valve type		Pressure plate system
		Backfire protection (type)		Diverter valve
	Exhaust Gas Recirculation System	Type (controlled flow, open orifice, other)	Controlled flow	
		Valve type	Vacuum modulated shut-off and metering valve	
		Valve location	L6-250 left front; V8 350 right rear of manifold	
		Control energy source	Carburetor vacuum	
		Exhaust source	Manifold exhaust crossover	
		Exhaust cooler type	None	
		Orifice no. and size	One, .030	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet manifold	
	Catalytic Converter System	Catalyst Type	Platinum - palladium	
		Catalyst Volume	260 cu. in.	
		Substrate type	Alumina	
		Container location	Beneath right front underbody; also, monolith manifold converter for 250 L6.	
	Other	Carburetor Hot Air	Thermostatically controlled air cleaner regulates and mixes heated air with incoming cold air to reduce hydrocarbon emission.	

CONTROLLED COMBUSTION SYSTEM

(a) Same system used in California on V8-305 engine.

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Engine Displacement		
L6 250 C.I. (L22)	V8 305 C.I. (LG 3)	V8 350 C.I. (LM1)

Electrical — Ignition System — Distributor

Breaker gap (in.)		Not Applicable		
Cam angle (deg.)		Not Applicable		
Brkr. arm tension (oz.)		Not Applicable		
Distributor	Manual	1110678	1103239	1103246
	Automatic	1110678 (1110681)	1103239 (1103244)	1103246 (1103248)
Timing	Manual	6° @ 800	8° @ 600	8° @ 700
	Automatic	8° @ 550 (6° @ 600)	8° @ 500 (6° @ 500)	8° @ 500 (8° @ 500)

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at In. of Mercury	
	Start	Intermediate	Maximum	Start	Maximum
1103239	0@ 1200	13@ 2000	20@ 4200	0 @ 4	15 @ 10
1110678	0@ 1000	7 @ 1600	20 @ 4200	0 @ 4	24 @ 15
1110681	0 @ 1000	7 @ 1600	20 @ 4200	0 @ 4	15 @ 12
1103244	0 @ 1000	10 @ 1700	20 @ 3800	0 @ 4	20 @ 10
1103246	0 @ 1200	12 @ 2000	22 @ 4200	0 @ 4	18 @ 12
1103248	0 @ 1200	12 @ 2000	22 @ 4200	0 @ 4	10 @ 8

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

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Engine Displacement	
L6-250 C.I.	V8 305 & V8 350 C.I.

Electrical — Supply System

Battery	Make and Model		Delco Remy 1980291	Delco Remy 1980204
	Voltage Rtg. & Total Plates		12V (2500 watts) 54 plates	12V (3200 watts) 66 plates
	SAE Designation No. and/or capacity (a)		0°-275 amps; -20 - 210 amps 60 minutes reserve capacity	0° 350 amps; -20° - 270 amps 80 minutes reserve capacity
	Location		Right side of engine compartment	
	Terminal grounded		Negative	
Generator or Alternator	Make		Delco Remy	
	Model		1102491	1102394
	Type and rating		Diode rectified 37 amps	
	Output at engine idle (neutral)		12-20 amps	
	Ratio—Gen. to Cr/s rev.		2.73:1	
Regulator	Make		Delco Remy	
	Model			
	Type		Micro circuit unit, integral with alternator	
	Cutout relay	Closing voltage @ generator rpm	None	
		Reverse current to open	None	
	Regulated	Voltage	13.8 - 14.8 @ 85°F	
		Current		
	Voltage test conditions	Temperature	Operating	
		Load	3 - 8 amperes	
		Other	None	

Electrical — Starting System

Starting Motor	Make			Delco Remy	
	Model			1108778	1108776
	Rotation (drive end view)			Clockwise	
Motor Drive	Engagement type			Positive shift solenoid	
	Pinion engages from (front, rear)			Rear	
	Number of teeth	Pinion		9	9
		Flywheel	Manual	153	168
			Auto	153	168
	Flywheel tooth face width		Manual	.4010 - .4130	.4100 - .4220
			Auto	.4010 - .4130	.4100 - .4220

(a) Cold cranking rating

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		Engine Displacement	
		L6 250 C.I.	V8 305 & 350 C.I.

Electrical—Ignition System

Type	Conventional - Std Opt N A	---	
	Transistorized - Std Opt N A	---	
	Other (specify)	High Energy Ignition System	
Coil	Make	Delco Remy	
	Model	Separate Coil	Integral with distributor
	Current — Engine stopped	---	
	Current — Engine idling	---	
Spark Plug	Make	AC Spark Plug	
	Model	R46TS	R45TS
	Thread (mm)	14	
	Tightening torque (lb ft)	25 (original)	15 (replacement)
	Gap	.035	.045
Cable	Conductor type	Fiberglass core impregnated with electrical conducting materi	
	Insulation type	Rubber with silicone jacket	
	Spark plug protector	Silicone rubber	

Electrical—Suppression

Locations & type	Non-metallic high tension ignition cables

Electrical—Instruments and Equipment

Speedometer	Type	In line with pointer
	Trip odometer (std opt N A)	NA
EGR maintenance indicator		NA
Charge indicator	Type	Tell-Tale
	Warning divice	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
Windshield Wiper	Type - standard	Electric two-speed
	Type - optional	Intermittent
	Blade length	15.9"
	Swept area	680.5
Windshield Washer	Type - standard	Push-button
	Type - optional	NA
	Fluid level indicator	NA
Horn	Type	Vibrator
	Number used	One
	Current draw (A) per horn	4.5-6@ 12.5V (low note)
Other		Restraint system warning light and buzzer. Brake failure warning light and parking brake light.

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	Engine Displacement	
	L6 250 Cu. In.	V8 305 - 350 C.I.

Drive Units—Clutch (Manual Transmission)

Make & type		Chevrolet single dry disc	Chevrolet - single dry disc, centrifugal
Type pressure plate springs		Diaphragm	Diaphragm bent finger design
Total spring load (lb.)		1650 - 1900	2100 - 2300
No. of clutch driven discs		One	
Clutch facing	Material	Woven type asbestos	
	Manufacturer	Chevrolet	
	Part Number	3828054	6262868
	Rivets/Plate	36	36
	Rivet size	.143 X .213	.184 X .208
	Outside & inside dia	9.12 X 6.12	10.34 X 6.50
	Total eff. area (sq. in.)	71.82	101.5
	Thickness	.135	
	Engagement cushioning method	Flat spring steel between facings	
Release bearing	Type & method of lubrication	Single row ball, packed and sealed	
Torsional damping	Methods springs, friction material	Coil springs	

Drive Units—Transmissions

Manual 3-speed (std., opt., N.A.)	Standard
Manual 4-speed (std., opt., N.A.)	Optional with V8 350 engine only
Automatic (std., opt., N.A.)	Optional

Drive Units — Manual Trans. L6 250 - V8 305 C.I.			V8 350 C.I.
Number of forward speeds		3	4
Transmission ratios	In first	3.11	2.85
	In second	1.84	2.02
	In third	1.00	1.35
	In fourth	-	1.00
	In reverse	3.22	2.85
Synchronous meshing, specify gears		All forward gears	
Shift lever location		Steering column mounted (3-speed) Floor mounted (4-speed optional)	
Lubricant	Capacity (pt.)	3	
	Type recommended	Meeting Military Specs MIL-L-2105B	
	SAE viscosity number — Summer	SAE 80	
	SAE viscosity number — Winter	SAE 80	
	SAE viscosity number — Extreme cold	SAE 80	

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Engine Displacement	
V8 305 C.I.	L6 250 C.I., V8 - 350 C.I.

Drive Units—Automatic Transmission

Trade name		Turbo Hydra-matic	
Type (describe)		Torque Converter with planetary gears	
Selector location		Steering column; floor mounted when used with floor console and bucket seats	
Gear Ratios	P	Park	Park
	R	2.07	1.94
	N	Neutral	Neutral
	D	2.74-1.57-1.00	2.52-1.52-1.00
	L2	2.74-1.57	2.52-1.52
	L1	2.74	2.52
Max. upshift speed - drive range		73	68 (L6); 78 (V8)
Max. kickdown speed - drive range		69	65 (L6); 74 (V8)
Torque Converter	Number of elements	3	3
	Max. ratio at stall	2.35	2.00
	Type of cooling (air, liquid)	Water	Water
	Nominal diameter	11.75	11.75
Lubricant	Capacity - refill (pt.)	7	8
	Type recommended	Dexron II	
Special transmission features			

Drive Units—Axle

Type (front, rear)		Rear	
Description		Semi-floating axle shaft overhung drive pinion and ring gear	
Limited Slip differential type		Disc clutches	
Drive Pinion Offset		1.75 vertical	
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 roller	
Lubricant	Capacity (pt.)	3.25-7.50"; 4.0-8.50"	
	Type recommended	Meeting military specs. MIL-L-2105B	
	SAE viscosity number — Summer	80W - 90	
	SAE viscosity number — Winter	80W - 90	
	SAE viscosity number — Extreme cold	80W - 90	

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

Axle ratio		2.56	2.73	3.08	2.73	3.08
No. of teeth	Pinion	16	15	13	15	13
	Ring gear	41	41	40	41	40
Ring Gear O.D.		8.50 (V8 engines)			7.50 (L6 engines)	

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Drive Units—Propeller Shaft

		Engine Displacement: L6 250 Cu.In.	Engine Displacement: V8 305 and 350 Cu.In.
Number used		One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight tube	
Outer diam. x length* x wall thickness	Manual 3-speed trans	2.75 X 53.14 X 0.065	2.75 X 51.78 X 0.065
	Manual 4-speed trans	NA	2.75 X 51.78 X 0.065 (350 eng.
	Automatic transmission	2.75 X 53.14 X 0.065	2.75 X 51.78 X 0.065
Intermediate bearing	Type (plain, anti-friction)	None	
	Lubrication (fitting, prepack)	--	
Slip Yoke	Type	Yoke	
	Number of teeth	27	
	Spline O.D.	1.502 - 1.503	
Universal joints	Make and Mfg. No.	Chevrolet 1285	Manual Trans. - Chevrolet 1285 Auto Trans - Chevrolet 1315
	Number used	Two	
	Type (ball and trunnion, cross)	Cross	
	Rear attach. (u-bolt, clamp, etc.)	Strap and bolt	
	Bearing: Type (plain, anti-friction)	Anti-friction	
	Bearing: Lubric. (fitting, prepack)	Pre-pack	
Drive taken through (torque tube or arms, springs)		Leaf Springs	
Torque taken through (torque tube or arms, springs)		Leaf Springs	

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

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Body Type And/Or Engine Displacement, Etc.

	Nova Standard	Nova Concours	

Drive Units — Tires And Wheels (Standard)

TIRES	Size, load range, ply		E78 X 14	FR 78 X 14	
	Type (bias, radial, etc.)		Bias belted	St. belt radial	
	Inflation pressure (cold) for recommended max. vehicle load	Front (a)	24	24	
		Rear (a)	28	28	
	Rev. mile at 45 mph		796	797	
WHEELS	Type & material		Short spoke disc; steel		
	Rim (size & flange type)		14 X 6		
	Wheel offset		.50		
	Attachment	Type (bolt or stud)	Stud		
		Circle diameter	4.75		
		Number & size	5 Hex nuts 7/16 - 20 UNF-2B		
	Spare wheel (same or other)		Same (b)		

Drive Units — Tires And Wheels (Optional)

Size, load range, ply	FR 78 X 14B	
Type (bias, radial, etc.)	Steel belted radial	
Wheel type & material	Rally type; steel	
Rim (size, flange type, and offset)	14 X 6 - 0.50	
Size, load range, ply		
Type (bias, radial, etc.)		
Wheel type & material	Rally types steel	
Rim (size, flange type, and offset)	14 X 7 - 0.34	
Size, load range, ply		
Type (bias, radial, etc.)		
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply		
Type (bias, radial, etc.)		
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply		
Type (bias, radial, etc.)		
Wheel type & material		
Rim (size, flange type, and offset)		

Brakes — Parking

Type of control		Foot pedal apply; 'T' handle release
Location of control		Left of steering column under instrument panel
Operates on		Rear service brakes
If separate from service brakes	Type (internal or external)	---
	Drum diameter	---
	Lining size (length x width x thickness)	---

(a) Full rated pressure shown; selected tire pressures are contingent on weight of vehicle.

(b) Stowaway spare tire standard on hatchback coupe.

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Body Type And/Or Engine Displacement

Brakes — Service

Brake Type (std opt N.A.)	Drum	Front	---
		Rear	Standard
	Disc	Front	Standard
		Rear	---
Self adjusting (std., opt., N.A.)			Standard
Special Valving	Type (proportion, delay, metering, other)		Metering & proportioning
Power Brake (std., opt., N.A.)			Standard with V8 engines; optional with L6 engine
Booster Type (remote, integral, etc.)			Integral
Effective area (sq. in.)*			100.52
Gross lining area (sq. in.)**			115.6
Swept area (sq. in.)***			326.4
Drum	Diameter (nominal)	Front	---
		Rear	9.5
	Type and material		Composite, finned, cast iron
Rotor	Outer working diameter		11.0
	Inner working diameter		7.18
	Thickness		1.03
	Material & type (vented/solid)		Cast iron vented
Wheel cylinder bore	Front		2.9375
	Rear		.938
Master Cylinder	Bore		Manual 1.00; Power 1.125
	Stroke		Manual 1.253; Power 1.408
Pedal arc ratio			Manual 6.22:1; Power 3.54:1
Line pressure at 100 lb. pedal load			
Shoe Clearance	Front		Self adjusting
	Rear		Self adjusting
Anti-skid device type (std., opt., N.A.)			N.A.
Brake lining	Bonded or riveted, rivets/seg.		Riveted
	Rivet size		Front .210 X .379; Rear .143 X .250
	Manufacturer		Delco Moraine
	Part number		Front 18000750; Rear 5474999
	Front Wheel — Material		Inbrd.-molded asbestos; Otbrd.-metallic impregnated asbestos
	Front Wheel — Size (length x width x thickness)	Prim. or outboard	5.40 X 1.92 X 0.465
		Second or inboard	5.40 X 1.92 X 0.465
	Front Wheel — Segments per shoe		One
	Front Wheel — Shoe thickness		.540
	Rear Wheel — Material		Molded asbestos
	Rear Wheel — Size (length x width x thickness)	Prim. or outboard	7.30 X 2.0 X 0.23
		Second or inboard	9.46 X 2.0 X 0.23
	Rear Wheel — Segments per shoe		One
	Rear Wheel — Shoe thickness		Primary .275; Secondary .305

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia. minus square of Inner Working Dia. multiplied by π/2 for each brake.)

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Steering

Manual (std., opt., NA)				Standard, energy absorbing steering column
Power (std., opt., NA)				Optional
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt type
		(std., opt., NA)		Optional
Wheel diameter		Manual		15.25
		Power		Same as manual
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		39.9
		Curb to curb (l. & r.)		38.1
	Inside rear	Wall to wall (l. & r.)		11.77
		Curb to curb (l. & r.)		10.89
Manual	Gear	Type		Semi-reversible, recirculating ball stud
		Make		Saginaw Steering
		Ratios	Gear	24.0:1
			Overall	26.41:1
	No. wheel turns (stop to stop)			4.99
Power	Type (coaxial, linkage, etc.)			Integral gear and power piston with vane type pump
	Make			Saginaw Steering
	Gear	Type		Same as manual
		Ratios	Gear	16.0:1 on center to 13.0:1
			Overall	15.07:1 on center to 11.31:1
	Pump driven by			Crankshaft pulley
	No. wheel turns (stop to stop)			2.42
Linkage	Type			Parallelogram
	Location (front or rear of wheels, other)			Rear
	Drag link (trans. or longit.)			None
	Tie rods (one or two)			Two
Steering Axis	Inclination at camber (deg.)			10° @ 0.75° camber
	Bearings (type)	Upper		Ball stud with non-metallic bearings
		Lower		Ball stud with non-metallic and sintered iron bearings
		Thrust		None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			Manual N1 ± 1; Power 1 ± 1
	Camber (deg.)			Manual P 3/4 ± 3/4; Power P 3/4 ± 3/4
	Toe-in (outside track inches)			1/16 ± 1/8
Steering spindle & joint type				Steering Knuckle
Wheel Spindle	Diameter	Inner bearing		1.2493 - 1.2498
		Outer bearing		.7492 - .7497
	Thread size			3/4 - 20 NEF (modified)
	Bearing type			Taper roller

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Car Line NOVA
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Body Type And/Or Engine Displacement

Suspension — General

(See Supplement page for details on Air Suspension)

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

Suspension — Front

Type and description		Independent SLA type with coil springs
Travel	Full Jounce	2.34
	Full Rebound	4.56
Spring	Type (coil, leaf, other)	Coil
	Material	Steel alloy
	Size (coil design height & I.D., bar length x dia.)	11.00 X 4.05; 116.07 X .617 (a)
	Spring rate (lb. per in.)	300 (a)
	Rate at wheel (lb. per in.)	92.5
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel-0.875 (Nova w/base tires, base suspension & V8 engine) Steel-0.9375 (Concours w/base suspension)

Suspension — Rear

Type and description			Salisbury rear axle with multiple leaf springs
Drive and torque taken through			Leaf springs
Travel	Full Jounce		2.14
	Full Rebound		5.70 LH: 6.10 RH
Spring	Type (coil, leaf, other)		Multiple leaf
	Material		Chrome carbon steel
	Size (length x width, coil design height & I.D., bar length & dia.)		56.0 X 2.50
	Spring rate (lb. per in.)		102 (a)
	Rate at wheel (lb. per in.)		112
	Mounting insulation type		Rubber bushed at shackle and hanger
	If leaf	No. of leaves	Five
		Shackle (compo or tens.)	Compression
Stabilizer	Type (link, linkless, frameless)		Link (Used only with optional sport suspension)
	Material & bar diameter		Steel-.5625
Track bar type			None

(a) Ratings for base equipped model only. Springs for all models computer selected by size and rate according to vehicle weight including optional equipment

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Car Line NOVA
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	Body Type		
	2-Door Hatchback Coupe	2-Door Coupe	4-Door Sedan
Frame		Base / Formal	

Type and description (Separate frame, unitized frame, partially - unitized frame): Body frame integral with separate partial frame

Body — Miscellaneous Information

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

	2-Door Hatchback Coupe	2-Door Coupe Base	2-Door Coupe Formal	4-Door Sedan
Windshield glass exposed surface area	1209.3			1282.1
Side glass exposed surface area	1553.5		1350.4	1582.9
Backlight glass exposed surface area	1158.6	1392.1		1092.1
Total glass exposed surface area	3921.4	4154.9	3951.8	3957.1

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Body Type		
2-Door Hatchback Coupe	2-Door Coupe	4-Door Sedan

Convenience Equipment

Power windows	Side windows	Optional
	Vent windows	N.A.
	Backlight or tailgate	---
Power seats (specify type as well as availability)		N.A.
Reclining front seat back (R-L or both)		NA 1XX models - optional 1XY models
Radios (specify type as well as availability)		Optional - AM Push-Button, AM-FM Push-Button, AM-FM Stereophonic
Rear seat speaker		Optional
Power antenna		N.A.
Clock		Optional
Air conditioner (specify type and availability)		Optional - Four Seasons with manual controls
Speed warning device		N.A.
Speed control device		Optional - with Automatic Transmissions only
Ignition lock lamp		N.A.
Dome lamp		Standard
Glove compartment lamp		Standard 1XY models - optional 1XX models
Luggage compartment lamp		Optional - not available on 17 models
Underhood lamp		Optional
Courtesy lamp		Optional (a) - Standard (b)
Map lamp		N.A.
Cornering light lamp		N.A.
Rear window defroster electrically heated		N.A.
Rear window defogger		Optional
Power door lock system		Optional
Cigarette lighter		Standard 1XY models - optional 1XX models
Windshield antenna		Available with factory installed radio

(a) Instrument panel courtesy lamps.
(b) Cargo area courtesy lamp for Hatchback coupe.

Lamp Height And Spacing*

Height above ground to center of bulb or marker	Headlamp (H125)	Highest**	25.3
		Lowest	--
	Tail (H126)	Highest	23.8
		Lowest	--
	Sidemarker	Front	25.1
		Rear	20.5
Distance from C/L of car to center of bulb	Headlamp	Inside	--
		Outside**	26.6
	Tail	Inside	--
		Outside	25.7
	Directional	Front	18.5
		Rear	25.7

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

**If single headlamps are used enter here

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Model	Vehicle Weights							
	CURB WEIGHT * (Pounds)			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT ** (Pounds)
				Pass. in Front		Pass in Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
NOVA STANDARD								
2-Door Hatchback Coupe - 1XX17	1754	1625	3381	46.0	54.0	18.6	81.4	3271
2-Door Coupe 1XX27	1746	1503	3249	46.0	54.0	18.6	81.4	3139
4-Door Sedan 1XX69	1744	1540	3284	46.0	54.0	18.6	81.4	3174
NOVA CONCOURS								
2-Door Hatchback Coupe - 1XY17	1803	1685	3488	46.0	54.0	18.6	81.4	3378
2-Door Coupe 1XY27	1816	1577	3393	46.0	54.0	18.6	81.4	3283
4-Door Sedan 1XY69	1832	1607	3439	46.0	54.0	18.6	81.4	3329

* Reference - SAE J1100. Passenger Car Dimension Definitions. Pg. 1. Base Curb Weight

** Shipping weight definition - Weight of basic vehicle with regular equipment, including grease, oil and (3) gallons of gasoline and engine coolant to capacity.

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Optional Equipment Weights

Equipment Differential Weights	WEIGHT (Pounds) Front	Rear	Total	Remarks
Air conditioning	+63	+ 3	+66	with L6 engine
	+84	+ 3	+87	with V8 engine
Front Bucket Seat	- 5	- 5	-10	1XX27 model only
Special Contour				
Power Steering	+32	0	+32	with L6 engine
	+30	0	+30	with V8 engine
Power Brakes	+ 8	+ 1	+ 9	
Electric Door Locks	+ 4	+ 3	+ 7	Used with 2-Door models
	+ 7	+ 8	+15	Used with 4-Door models
Exterior soft trim	+ 2	+ 4	+ 6	
Roof Cover				
Padded vinyl roof-Landau	+ 3	+ 5	+ 8	1XY27
Floor compartment	+ 3	+ 1	+ 4	with 3-speed transmission
console	+ 3	+ 1	+ 4	with 4-speed transmission
	+ 7	+ 2	+ 9	with automatic transmission
Sports suspension -				
Front & Rear	+ 2	+10	+12	with V8 Engine
Heavy Duty Sus.	+ 1	+ 1	+ 2	
Front & Rear				
Front & Rear Floor Mats	+ 4	+ 6	+10	
Heavy-Duty Battery	+12	- 1	+11	with 6 cyl. engine
	+11	-1	+10	with V8 engine
Rally wheel hub cap				
& trim ring				
14 X 6 wheel	+ 7	+ 7	+14	1XA17 Hatchback Coupes
	+ 7	+11	+18	1XA27-69 Coupes & Sedans
Combined Interior Decor	+18	+12	+30	
Convenience group				
Radio AM push-button	+ 6	+ 1	+ 7	
Radio AM-FM push-button	+ 7	+ 1	+ 8	
Radio AM-FM Stereo	+ 8	+ 3	+11	
Radio AM& stereo tape	+14	+ 6	+20	
Radio AM-FM & Stereotape	+15	+ 6	+21	
305 cu. in. - LG3	+105	+ 8	+113	
350 cu. in. - LM1	+96	+ 9	+105	
4-speed transmission	+ 8	+ 4	+12	
Automatic transmission	+19	+ 8	+27	

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Body Type

Vehicle Fiducial Marks

Fiducial Mark Number *

Define Coordinate Location

Front

X - Fiducial Mark to Centerline of Car - Front
Width measurement made from centerline of car to fiducial mark located on top of the front seat adjuster mounting bolt.

Y - Fiducial Mark to Vertical Body Zero Line - Front
Measured horizontally from the body zero line to the front fiducial mark located on top of the front seat adjuster mounting bolt.

Z - Fiducial Mark to Horizontal Body Zero Line - Front,
Measured vertically from body zero line to the front fiducial mark located on top of the front seat adjuster mounting bolt.

Rear

X - Fiducial Mark to Centerline of Car - Rear,
Width measurement made from centerline of car to fiducial mark located on the rear underbody longitudinal bar.

Y - Fiducial Mark to Vertical Body Zero Line - Rear,
Measured horizontally from body zero line to the rear fiducial mark located on rear underbody longitudinal bar.

Z - Fiducial Mark to Horizontal Body Zero Line - Rear,
Measured vertically from body zero line to the rear fiducial mark located on the rear underbody longitudinal bar.

Fiducial Mark Number	Coordinate Location of Fiducial Mark			Fiducial Mark to Ground at Curb
	X	Y	Z	
Front	22.70	29.88	6.94	Coupes & Sedans 11.8
	X	Y	Z	
Rear	22.50	131.12	9.14	Coupes & Sedans 13.4

* Reference — SAE Recommended Practice, J182

MVMA Specifications Form
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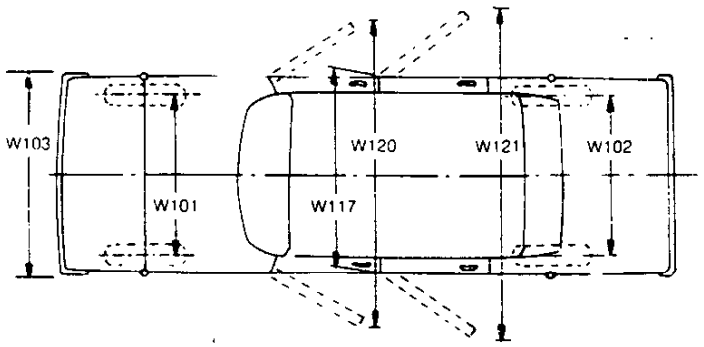
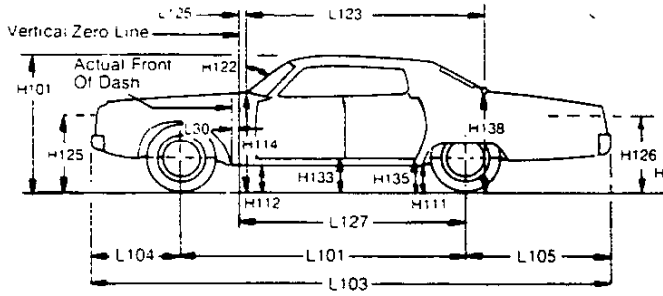
Exterior Car And Body Dimensions — Key Sheet

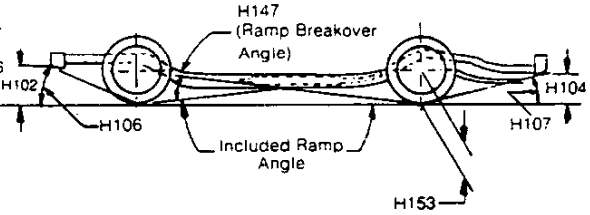
Width



Length & Height

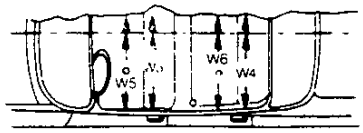


Ground Clearance

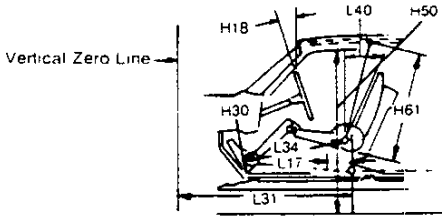


Interior Car And Body Dimensions — Key Sheet

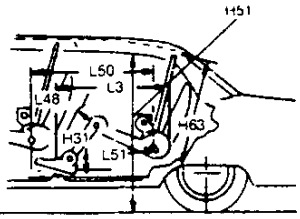
Width



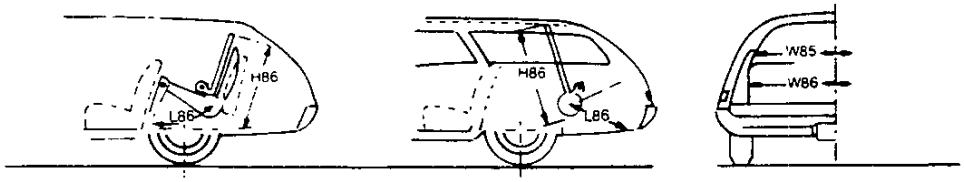
Front Compt.



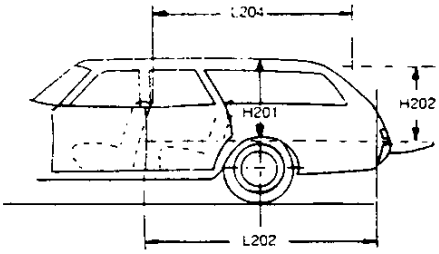
Rear Compt.



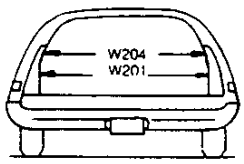
Third Seat

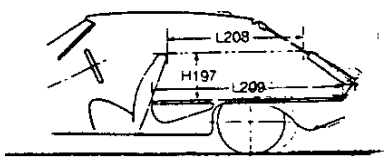


Cargo Space



Station Wagon





Hatchback

MVMA Specifications Form
Passenger Car

Exterior Car And Body Dimensions — Key Sheet
Dimension Definitions

Width Dimensions

W101 WHEEL TREAD — FRONT. Measured at centerline of tires, with nominal camber, at ground.

W102 WHEEL TREAD — REAR. Measured at centerline of tires at ground.

W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.

W117 MAXIMUM BODY WIDTH AT NO. 2 PILLAR. Measured across body at No. 2 pillar, excluding hardware and applied moldings.

W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN is measured to outside of sheet metal with front doors in maximum hold-open position.

W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN is measured in same manner as W120.

Length Dimensions

L30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (—) sign.

L101 WHEELBASE.

L103 OVERALL LENGTH. Include bumper guards if standard equipment.

L104 OVERHANG — FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.

L105 OVERHANG — REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.

L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.

L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.

L125 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

Height Dimensions

H101 OVERALL HEIGHT — DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.

H114 COWL POINT TO GROUND. Measured at vehicle centerline.

H138 DECK POINT TO GROUND. Measured at vehicle centerline.

H112 ROCKER PANEL TO GROUND — FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.

H133 BOTTOM OF DOOR TO GROUND, CLOSED — FRONT is the same point on the door as H132 dimension, with door closed.

H111 ROCKER PANEL TO GROUND — REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.

H135 BOTTOM OF DOOR TO GROUND, CLOSED — REAR is measured in same manner as H133.

H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

H125 HEADLAMP CENTERLINE TO GROUND is measured vertically to the center of the upper lamp.

H126 TAILLAMP CENTERLINE is measured vertically from ground to the centerline of the upper bulb.

Ground Clearance Dimensions

H102 BUMPER TO GROUND — FRONT. Minimum dimension, includes bumper guards.

H104 BUMPER TO GROUND — REAR. Minimum dimension, includes bumper guards.

H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.

H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND is a minimum clearance.

H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

MVMA Specifications Form
Passenger Car

Interior Car And Body Dimensions — Key Sheet
Dimension Definitions

Front Compartment Dimensions

L31 H POINT TO VERTICAL ZERO LINE — FRONT is a horizontal dimension.

H61 EFFECTIVE HEAD ROOM — FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

H75 EFFECTIVE T POINT HEADROOM — FRONT The arc dimension from the T Point to the headlining plus 30 inches.

L34 MAXIMUM EFFECTIVE LEG ROOM — ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.

H30 H POINT TO HEEL POINT — FRONT The vertical dimension from the H Point to the Accelerator Heel Point.

L17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

W3 SHOULDER ROOM—FRONT The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the H-point—front within the belt line to 10 inches above the H-point—front.

W5 HIP ROOM—FRONT The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the H-point—front within 1.0 inches below and 3.0 inches above the H-point height and 3.0 inches fore and aft of the H-point

H50 UPPER BODY OPENING TO GROUND — FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

H18 STEERING WHEEL ANGLE — VERTICAL. The angle measured from a vertical to the surface plane of the steering wheel.

L40 BACK ANGLE — FRONT. The angle measured between a vertical line through the H-Point-Front and the torso line.

Rear Compartment Dimensions

L50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.

H63 EFFECTIVE HEAD ROOM — REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

H76 EFFECTIVE T POINT HEADROOM — REAR. Measured in the same manner as H75

L51 MINIMUM EFFECTIVE LEG ROOM — REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.

H31 H POINT TO HEEL POINT — REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.

L48 KNEE CLEARANCE. The minimum dimension measured from the knee pivot center to the back of front seatback minus 2.0 inches.

L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.

W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the H-point—second within 10.0-16.0 inches above the H-point—second.

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

H51 UPPER BODY OPENING TO GROUND — REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

Luggage Compartment Dimensions

V1 LUGGAGE CAPACITY — USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.

H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

Station Wagon — Third Seat Dimensions

W85 SHOULDER ROOM—THIRD. Measured in the same manner as W4.

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

L86 EFFECTIVE LEG ROOM — THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.

H86 EFFECTIVE HEAD ROOM — THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

H89 EFFECTIVE T POINT HEADROOM — THIRD SEAT. Measured in the same manner as H75.

MVMA Specifications Form
Passenger Car

Interior Car And Body Dimensions — Key Sheet
Dimension Definitions

Station Wagon — Cargo Space Dimensions

L202 CARGO LENGTH AT FLOOR — FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.

L204 CARGO LENGTH AT BELT — FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.

W201 CARGO WIDTH — WHEELHOUSE. The minimum horizontal dimension, measured between wheelhousings at floor level

W204 OPENING WIDTH AT BELT The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.

H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.

H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail and liftgates fully open.

V2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

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

Hatch Back — Cargo Space Dimensions

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

H197 FRONT SEAT BACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seat back to the undepressed floor covering.

L208 CARGO LENGTH AT FRONT SEAT BACK HEIGHT. The horizontal dimension measured from the top rear of front seat back to the inside limiting interference of the hatch back door on the car centerline.

L209 CARGO LENGTH AT FLOOR — FRONT SEAT. The horizontal dimension measured at floor level from the rear of the front seat back to the normal limiting interference of the hatch back door on the car centerline.

V3 HATCH BACK — CARGO INDEX VOLUME. Hatch back cargo index volume is to be determined by the following formula, and expressed in terms of cubic feet.

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728}$$

MVMA Specifications Form
Passenger Car

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