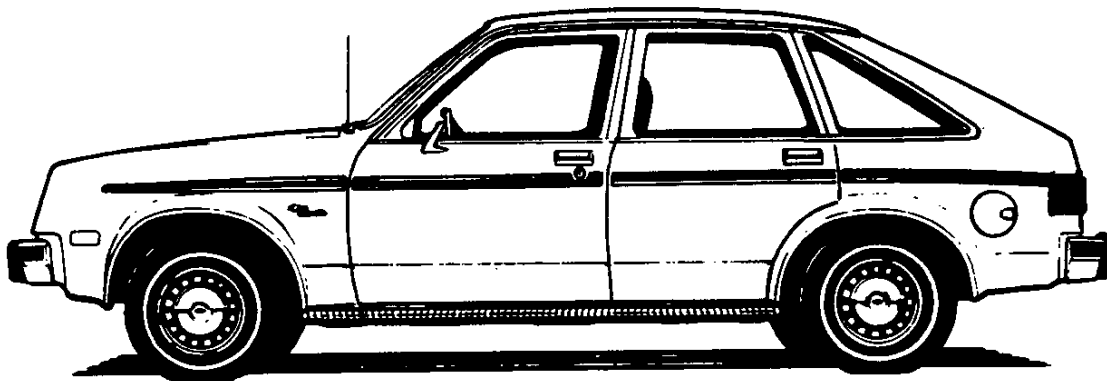


GENERAL

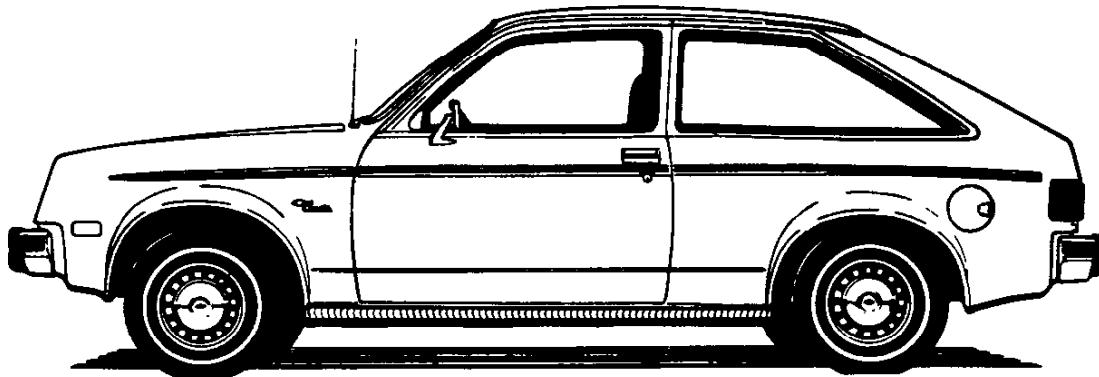
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HATCHBACK SEDAN (1TB68)



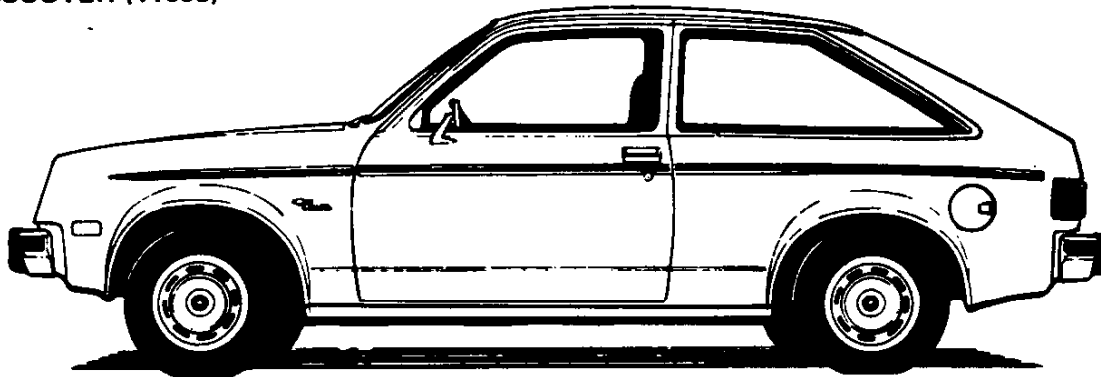
MODEL IDENTIFICATION

HATCHBACK COUPE (1TB08)



BODY	SERIES NAME	BODY STYLE	MODEL DESIGNATION	PASSENGER
T-CAR	CHEVETTE	2-Dr. Hatchback Coupe	1TB08	4
		2-Dr. Hatchback Coupe	1TJ08	4
		4-Dr. Hatchback Sedan	1TB68	4

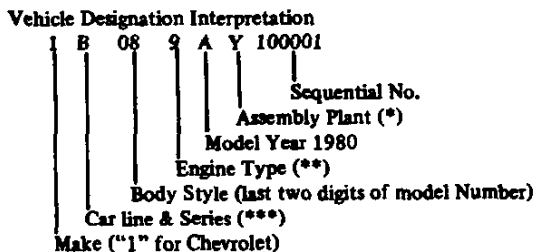
SCOOTER (1TJ08)



SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

VEHICLE IDENTIFICATION NUMBER



*Y - Wilmington - GMAD A - Lakewood - GMAD
 **9 - L4-1.6L (70 H.P.) 0 - L4-1.6L (74 H.P.)
 ***T - Chevette models

EXAMPLE: The twenty-fifth Chevrolet vehicle built at Chevrolet Wilmington if it were a 1TB08 model Chevette Coupe with a 1.6 Liter (70 H.P.) engine would bear VIN Number 1B089AY100025.

Location Stamped on plate attached to left hand windshield pillar.

TRANSMISSION IDENTIFICATION

Example: R0E01D

Type Designation	Source Designation	Model Year 1980	Production ^o Month & Date
SM	R (Muncie)	0	E01D*
SM	4-Speed	L4-1.6L Liter Engine	R - Muncie
VN	3-Speed Auto.	L4-1.6 Liter Engine	- Strasbourg
7CN			Y - Toledo

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

^oMonth: E denotes May; 01 denotes 1st day.
 -Alpha Characters used in identifying the Calendar Month

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

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

ENGINE IDENTIFICATION

Example: F1210 CKA

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

1.6L, 98 Cubic Inch L4 Engine (RPO L17)

CKA - Regular production engine, 4-speed
 CKB - Regular production engine, 3-speed automatic "180", 2-bbl. carb.
 CKD - Regular production engine, 3-speed automatic "200", 2-bbl. carb.

1.6L, 98 Cubic Inch L4 Engine (RPO L18)

CKL - Optional engine, 4-speed, 2-bbl. carb.
 CKM - Optional engine, 3-speed automatic "180", 2-bbl. carb.
 CKS - Optional engine, 3-speed automatic "200", 2-bbl. carb.

1.6L 98 Cubic Inch L4 Engine California (RPO L17)

CKF - Base engine Calif. 4-speed 2-bbl. carb.
 CKH - Base engine Calif. 3-speed automatic "180", 2-bbl. carb.
 CKK - Base engine Calif. 3-speed automatic "200", 2-bbl. carb.

Location:
 4-Cylinder engine Stamped on right hand side of cylinder block outboard of the engine plant identification.

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

REAR AXLE IDENTIFICATION

QN - 3.70 Axle

Location, Identification Number
 Stamped on front of right hand axle tube
 3 to 5 inches outboard of the carrier.

See Power Train Section for additional information.

EXTERIOR EQUIPMENT

STANDARD EQUIPMENT EXTERIOR EXTERIOR

<u>FRONT</u>	<u>1TJ08</u>	<u>1TB08</u>	<u>1TB68</u>
Radiator Grille Emblem (C)	X	X	X
Bright Windshield Reveal Molding in Weatherstrip (F)	X	X	X
Argent and Bright Grille (Plastic) (C)		X	X
Argent Grille (Plastic) (C)	X		
Parking Lamps Located in Bumper - Amber Lens (C)	X	X	X
Bright Headlamp Bezels - Single Rectangular Headlamps (C)		X	X
Argent Headlamp Bezels - Single Rectangular Headlamps (C)	X		
Dual Exposed Windshield Wipers - Dull Chrome Arms and Blades (F)	X	X	X
Chrome Plated Steel Bumper (C)		X	X
Argent Painted Steel Bumper (C)	X		
Bumper Guards and Rub Strips (C)	X	X	X
 <u>SIDE</u>			
Bright Rocker Panel Molding (Aluminum) (C)		X	X
Black Painted Rocker Panel (C)		X	X
Body Side Molding (C) (F)		X	X
Body Color Front Bumper Filler Panels (C)		N	N
Body Color Rear Bumper Filler Panels (C)	N	N	N
Front Marker Lamp - Amber Lens (C)	X	X	X
Flush Type Door Handles (F)	X	X	X
Bright Hub Caps (Aluminum) (C)	X	X	X
Bright Wheel Trim Rings (Aluminum) (C)		X	X
L.H. Rear View Mirror - Rectangular (C)	X	X	X
Swing-out Rear Side Window (F)		N	
Dropping Rear Door Window (F)			X
Fixed Rear Quarter Window (F)	N		
Bright Roof Drip Molding (Aluminum) (F)	X	X	X
Bright "Chevette" Nameplate on Fender Side (Die Cast) (C)		X	X
Argent "Chevette Scooter" Decal on Fender Side (C)	X		
 <u>REAR</u>			
Bright "Chevrolet" Nameplate on Hatch - Plastic (F)		N	N
Argent "Chevrolet" Nameplate on Hatch - Decal (F)	X		
Single Overhead License Plate Lamp (F)	N	N	N
Larger Red & White Wraparound Taillamps Accented with Black Paint (No Bezel) (F)	N	N	N
Top Hinged Hatch with Flush Mounted Glass, Black Reveal Molding and L.H. Strut Rod	N	N	N
Chrome Plate Steel Bumper (C)		X	X
Argent Painted Steel Bumper (C)	X		
Bumper Guards and Rub Strips (C)	X	X	X

(C) - Chevrolet Responsibility
(F) - Fisher Body Responsibility
(N) - New
(X) - Carryover

INTERIOR EQUIPMENT

STANDARD EQUIPMENT INTERIOR

<u>SEATS AND FLOOR COVERING</u>	1TJ08	1TB08	1TB68
Full Foam, (non-reclining) Front Bucket Seats (F)	X		
Full Foam, Reclining Front Bucket Seats (F)		X	X
Full Foam, Folding, Full Width Rear Seat (F)	X	X	X
Inertia-Type Front Seat Back Lock (F)		X	
Manual Front Seat Back Lock – Black Lever (F)	X		
Folding Rear Seat Back Lock – Bright (F)	X		
Front Seat Fore-Aft Adjuster, Both Seats – Black Knob (F)		X	X
Front Seat Fore-Aft Adjuster, Driver's Seat – Black Knob (F)	X		
Front Seat Hinge Arm Cover – Color-Keyed (F)	X	X	X
Front Seat and Shoulder Belt System (Single Belt with Hidden Retractor) (F)			
Black	X		
Color-Keyed		X	X
Rear 2-Piece Seat Belt System (F)			
Black	X		
Color-Keyed		X	X
Carpet Floor Covering – Nylon Cut Pile (F)	X	X	X
Rear Seat Back – Carpeted	X	X	X
Unpainted Aluminum Load Floor with Carpeting	X	X	X
Black-Painted Rear Wheel Wells (F)	X		
Transmission Floor Console with Black Boot and Knob with Shift Pattern (C)		X	X
Transmission Shift Lever with Black Boot and Knob with Shift Pattern (C) . .	X		
Tunnel-Mounted Parking Brake Lever – Black Grip and Shaft (C)	X	X	X
Inner Sill Plates – Color-keyed Plastic	X	X	X

(C) – Chevrolet Responsibility
(F) – Fisher Body Responsibility

INTERIOR EQUIPMENT

STANDARD EQUIPMENT INTERIOR

INSTRUMENT PANEL AND STEERING WHEEL (C)	1TJ08	1TB08	1TB68
Instrument Panel Pad with "Chevrolet" Nameplate - Color-Keyed		X	X
Instrument Panel Pad with "Chevrolet" Nameplate - Black	X		
Instrument Panel Lower - Color-Keyed		X	X
Instrument Panel Lower - Black	X		
Steering Column - Black	X	X	X
Steering Column Instrument Panel Shroud - Black	X	X	X
Steering Column-Mounted Smart Switch (2-Speed Wiper, Washer, Turn Signal, and Headlamp Dimmer) - Black	X	X	X
Steering Column-Mounted Ignition Switch with Anti-Theft Feature and Lock Inhibitor	X	X	X
Bright & Brushed Aluminum Instrument Panel Moldings		X	X
Steering Column-Mounted Hazard Flasher Switch	X	X	X
Two-Spoke Soft Feel Steering Wheel with Center Horn Button - Black	X		
Sport Steering Wheel		X	X
Steering Wheel Horn Button Insert	X	X	X
Hood Release - Black Handle (Below LH Side of IP)	X	X	X
Instrument Cluster Carrier and Gages			
Carrier - Black	X		
Carrier - Black with Bright Accents and Aluminum Applique		X	X
Instruments (ISO symbols added - see Page D11)			
Speedometer - Odometer (85 MPH and 140 km/h max.)	X	X	X
Fuel Gage	X	X	X
Clock Cover Plate with Graphics	X	X	X
Warning Lamps for -			
Fasten Seat Belts - Med. Red when Lighted	X	X	X
Brake - Parking and Loss of Hydraulic Pressure - Med. Red when Lighted	X	X	X
Oil Pressure - Med. Red when Lighted	X	X	X
Water Temperature - Med. Red when Lighted	X	X	X
Alternator - Light Red when Lighted	X	X	X
Headlamp High Beam Indicator - Blue when Lighted	X	X	X
LH and RH Turn Signal Arrows - Green when Lighted	X	X	X
Three-Speed Blower Heater Control - Black Knobs	X	X	X
Light Switch - Black Knob with White Circle and Symbol	X	X	X
AM Radio - Black Knobs with White Circle and Symbol	O	X	X
Radio Hole Cover	X		
Cigarette Lighter - Black with White Circle and Symbol	O	X	X
Ash Tray with Faceplate Grip	X	X	X
Glove Compartment	X	X	X
Glove Compartment Door and Lock		X	X
Flow-Thru Ventilation Outlets (2) - Black Barrels	X	X	X
Single Horn	X	X	X

(C) - Chevrolet Responsibility
O - Optional

INTERIOR EQUIPMENT

STANDARD EQUIPMENT INTERIOR

ROOF AND PILLARS (F)	1TJ08	1TB08	1TB68
"Premier" Vinyl Coated Cut and Sew, Perforated Headlining	X	X	X
Header Mounted Courtesy Lamp with Plastic Lens	X	X	X
Dual Non-Hook Padded Sunshades	X	X	X
Day/Night Inside Rearview Mirror	X	X	X
Black-Painted Rear View Mirror Support, Bonded to Windshield	X	X	X
Painted Metal Windshield, Door and Hatch Pillars	X	X	X
Ventilation Relief Valve with Black Grille (Located in Door Lock Pillars)	X	X	X
Left Front Door Jamb Switch – Key Reminder and Courtesy Lamp	X	X	X
Right Front Door Jamb Switch	X	X	X
Coat Hooks (2)	X	X	X
DOOR AND QUARTER PANEL (F)			
Embossed Fiberboard Door Trim Panel	X		
Molded Plastic Door Trim Panel with Remote Door Handle Pocket		X	X
Front Door Armrest		X	X
Bright Door Window Regulator Handle with Black Knob		X	X
Black Door Window Regulator Handle and Knob	X		
Bright Remote Door Handle		X	X
Black Remote Door Handle and Escutcheon	X		
Black Door Pull Strap with Bright Escutcheons	X		
Color Keyed Rear Door Pull Strap			X
Bright Remote Door Lock Button	X	X	X
Color Keyed Molded Plastic Cowl Kick Pads	X	X	X
Embossed Fiberboard Quarter Trim Panels	X		
Molded Plastic Quarter Trim Panel		X	X
Embossed Fiberboard Rear End Panel Trim	X	X	X

(C) – Chevrolet Responsibility
(F) – Fisher Body Responsibility

EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC
MODEL OPTIONS		
DELUXE INTERIOR OPTION (See page 10 for content)	B18	
DELUXE EXTERIOR OPTION (See page 10 for content)	B57	
POWER TEAMS		
ENGINE L4 - 1.6 Liter, High Output	L18	
TRANSMISSION, 3-Speed Automatic	MX1	
FACTORY INSTALLED REGULAR PRODUCTION TIRES		
175/70R13 Steel Belted Radial Blackwall	QAV	
175/70R13 Steel Belted Radial White Stripe	QAW	
175/70R13 Steel Belted Radial White Lettered	QAX	
P155/80R13 Glass Belted Radial White Stripe (1TJ08 Only)	QBH	

EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC
Glass-Tinted (All Windows)	A01	
Automatic Color-Keyed Seat and Shoulder Belt System	A77	
Deluxe Acoustic Package (Includes BS1) (1TB00 Only)	BS2	
Floor Mats - Front and Rear (Color-Keyed)	B37	X
Moldings - Body Side (1TB00 Only)	B84	X
Moldings - Side Window Reveal (1TB00 Only)	B90	
Guards - Door Edge (Bright Plastic)	B93	X
Wipers - Intermittent Windshield	CD4	
Rear Window Wiper and Washer	C25	
Defogger - Electric Rear Window (Includes 55 Amp. Alternator K77)	C49	
Air Conditioning (See Page 11 for Content)	C60	
Sport Striping (1TB00 Only)	DX5	
Mirrors - Dual Sport Rear View (Remote L.H., Manual Convex R.H.) (1TB00 Only)	D35	
Mirror - Sport Rear View, Remote L.H. (1TB00 Only)	D69	
Paint, Two-Tone (5 Color Combinations) (1TB00 Only)	D84	
Sport Suspension (Available Only with Steel Belted Radial Tires)	F41	
Brakes - Power (Variable Ratio Brake Pedal)	J50	
Engine 1.6 Liter L4, High Output (Not Avail. in Calif.)	L18	
Sport Shift (Manual Transmission Only)	MC4	
Comfortilt Steering Wheel	N33	
Wheel Covers - Sport (1TB00 Only)	PB2	
Wheel Trim Rings (1TB00 Only)	P06	
Auxiliary Lighting Group	TR9	
Rear Compartment Light and Hatch Switch		
Engine Compartment Light		
Glove Box Light Except 1TJ08		
Instrument Panel Courtesy Lights		
R.H. Door Jamb Switch on 1TJ08		
Headlamp Warning Buzzer		
Battery - Heavy Duty (Maintenance Free Type 3200 Watts)	UA1	
Tachometer	U16	
Clock Electric (Non-digital)	U35	X
Lighter, Cigarette (1TJ08 Model)	U37	
Radio, AM/FM Stereo (1TB00 Only) (3 Speakers)	U58	X
Radio, AM (1TJ08 Only)	U63	
Radio, AM/FM, Pushbutton	U69	X
Speaker, Rear Auxiliary (1TB00 Only)	U80	X
Cooling, Heavy Duty (1TB00 Only)	V08	
Luggage Carrier (Roof Mounted)	V55	
Alarm Theft		X
Antenna, Radio and CB		X
Compass, Auto.		X
Lamp Portable		X
Mirror, Vanity Visor		X
Radio CB, 40 Channel		X
Seat, Infant Safety		X
Heater, Engine Block		X
Wheel Lock - Anti-Theft		X

RPO B18 AND B57

DELUXE INTERIOR OPTION (B18)

MODEL AVAILABILITY

Models 1TB00

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

INTERIOR

Deluxe Cloth or Vinyl Seat Trim
Deluxe Door and Quarter Trim Design with Moldings
New Color-Keyed and Bright Instrument Panel Moldings
Roof Rail RH Assist Handle
Added Acoustical Insulation
Deluxe Load Floor Carpet
Rear Quarter Panel Ash Trays (1TB00)

DELUXE EXTERIOR OPTION (B57)

MODEL AVAILABILITY

Models 1TB00

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

EXTERIOR

Bright Side Window Reveal Moldings
Wheel Opening Moldings
New Deluxe Rocker Panel Molding

FOUR SEASON (RPO C60)

Integral air cooling and heater system. Manually controlled by two horizontal levers on instrument control panel, plus 4-speed fan switch. Upper lever operates compressor and air selector doors; lower lever controls air temperature from instrument panel and side outlets.

BASIC COMPONENTS

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

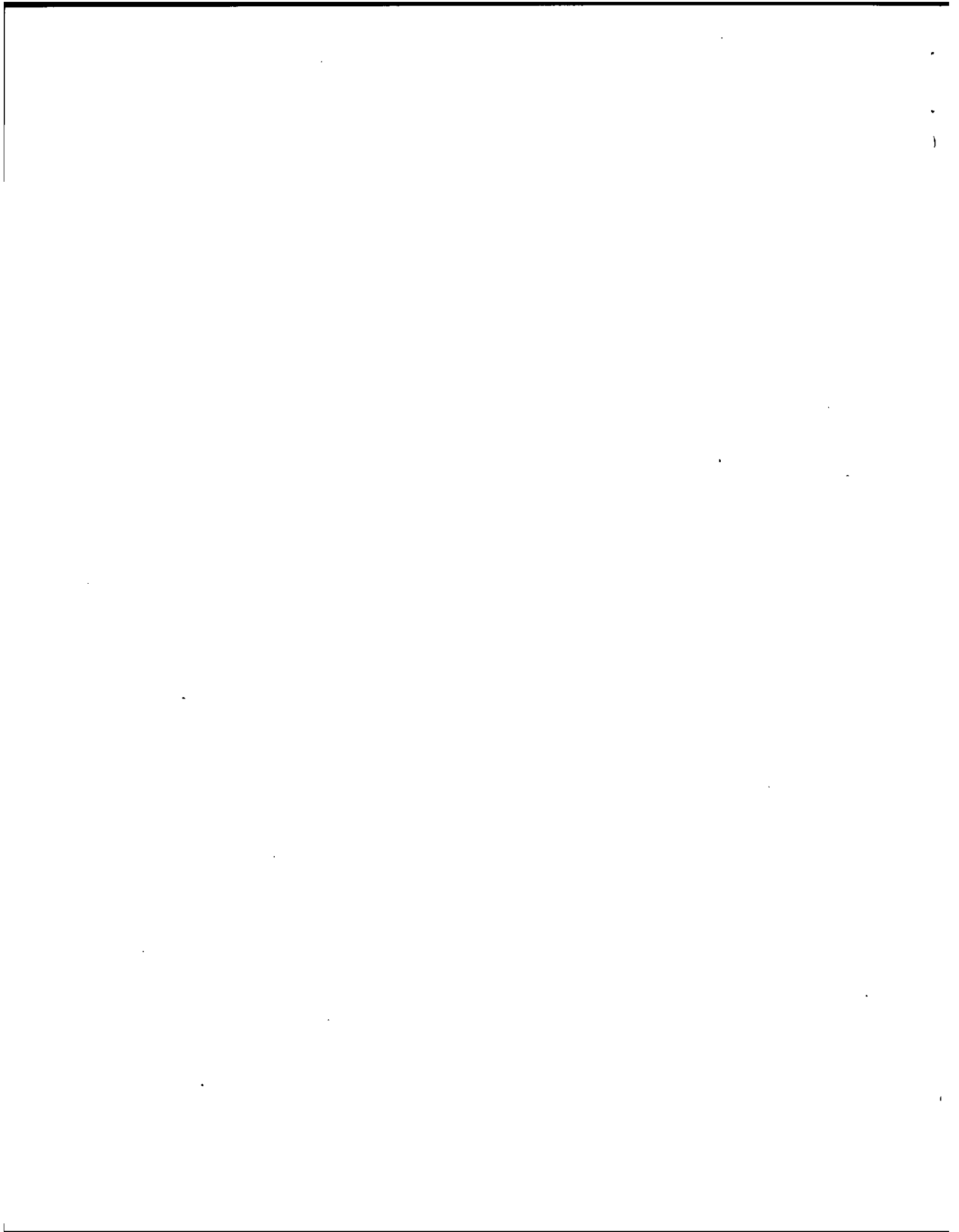
EQUIPMENT (Used in addition to or in place of base equipment)

CHASSIS

Rear Axle Ratio -- Refer to Power Trains Section

POWER TRAINS

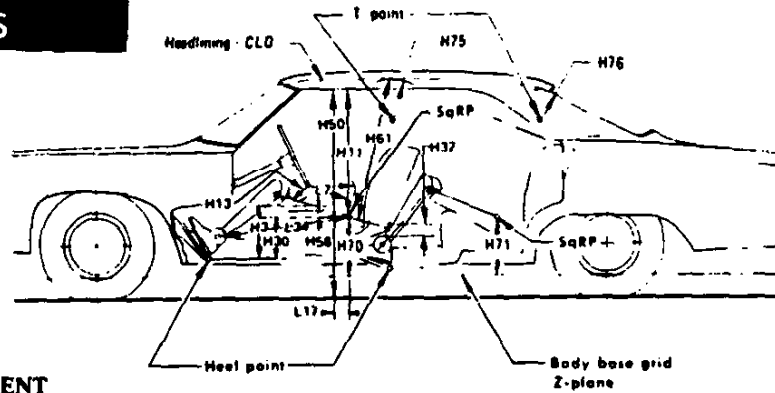
Fan	7 Blade for A/C (plastic)
Crankshaft Pulley	Single two groove pulley
Compressor & Crankshaft Belt	One
Generator	55 Ampere
Radiator	Heavier duty



DIMENSIONS AND WEIGHTS

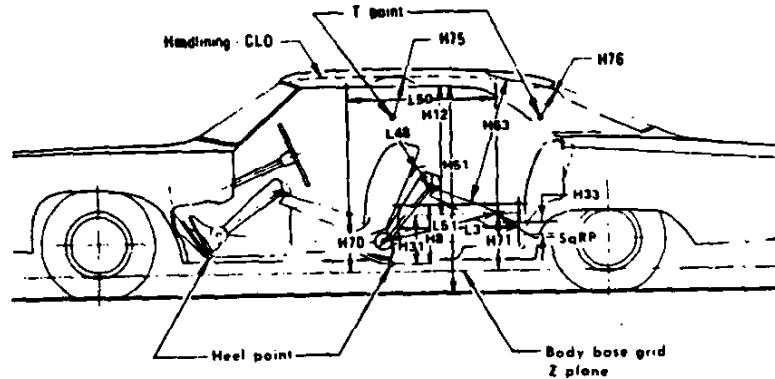
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INTERIOR DIMENSIONS



FRONT COMPARTMENT

CODE	DESCRIPTION	HATCHBACK COUPES		HATCHBACK SEDAN
		1TB08	1TJ08	1TB68
H-3	Seat cushion height	304 (12.0)	310 (12.2)	304 (12.0)
H11	Entrance height	778 (30.6)		778 (30.6)
H13	Steering wheel thigh clearance	91 (3.6)	94 (3.7)	91 (3.6)
H30	SgRP to heel point (chair height)	259 (10.2)	266 (10.5)	259 (10.2)
H32	Seat cushion deflection	85 (3.3)		
H50	Upper body opening to ground	1208 (47.6)		
H58	H point rise	22 (0.9)		
H61	Effective headroom	968 (38.1)		973 (38.3)
H70	SgRP to body base grid	336 (13.2)		
H75	Effective 'T' point headroom	974 (38.3)		978 (38.5)
W3	Shoulder room	1273 (50.1)		1266 (49.8)
W5	Hip room	1268 (49.9)		1256 (49.4)
L7	Steering wheel torso clearance	368 (14.5)		365 (14.3)
L17	H point travel	134 (5.3)		
L34	Effective leg room	1058 (41.6)	1056 (41.6)	1058 (41.6)

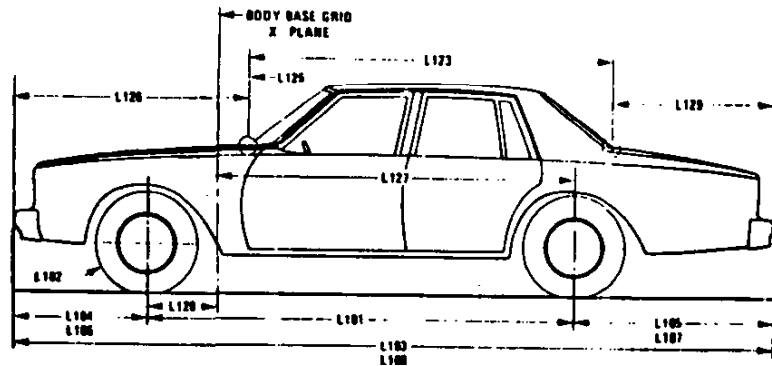


REAR COMPARTMENT

CODE	DESCRIPTION	HATCHBACK COUPES		HATCHBACK SEDAN
		1TB08	1TJ08	1TB68
H8	Seat cushion height	308 (12.1)		
H12	Entrance height	---		774 (30.5)
H31	SgRP to heel point (chair height)	268 (10.5)		
H33	Seat cushion deflection	118 (4.6)		126 (5.0)
H51	Upper body opening to ground	---		1199 (47.2)
H63	Effective headroom	947 (37.3)		949 (37.4)
H71	SgRP to body base grid	340 (13.4)		
H76	Effective 'T' point headroom	941 (37.0)		944 (37.2)
W4	Shoulder room	1254 (49.4)		1256 (49.4)
W6	Hip room	1036 (40.8)		
L3	Rear compartment room	569 (22.4)		644 (25.3)
L48	Knee clearance	-67 (-2.6)		-1.0 (-0.0)
L50	SgRP couple distance	678 (26.7)		754 (29.7)
L51	Effective leg room	770 (30.3)		860 (33.9)

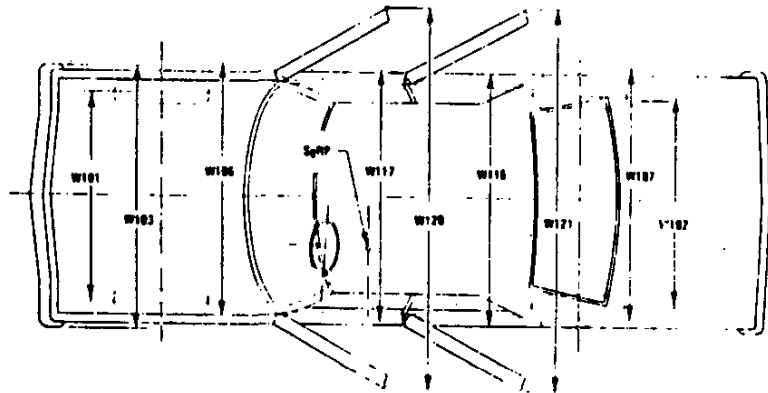
* Primary Dimensions are millimeters unless otherwise shown.

EXTERIOR DIMENSIONS



LENGTH

CODE	DESCRIPTION	HATCHBACK COUPE		HATCHBACK SEDAN
		1TB08	1TJ08	1TB68
L101	Wheelbase	2394 (94.3)		2471 (97.3)
L102	Tire size (standard)	P155/80R-13		
L103	Overall length	4111 (161.9)		4188 (164.9)
L104	Overhang front	787 (31.0)		
L105	Overhang rear	930 (36.6)		
--	Overall length - less bumpers	3895 (153.3)		3972 (156.4)
L123	Body upper structure length at car centerline	2510 (98.8)		2586 (101.8)
L125	Body base grid plane to windshield cowl point	306 (12.0)		
L126	Front end length at centerline	885 (34.8)		
L127	Rear wheel centerline to body base grid line	2179 (85.5)		
L128	Front wheel centerline to body base grid line	-215 (-8.5)		
L129	Rear end length at centerline	196 (7.7)		
L30	Front of dash to body base grid	21 (0.8)		

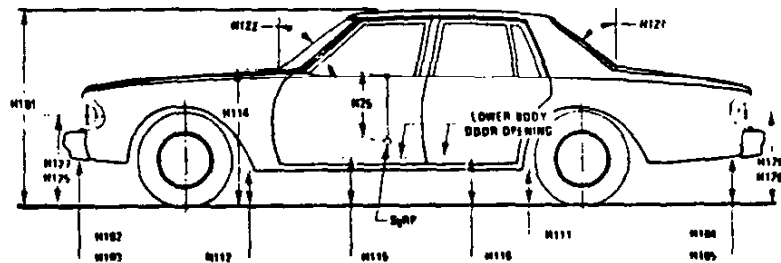


WIDTHS

W101	Tread - front	1300 (51.2)	
W102	Tread - rear	1300 (51.2)	
W103	Maximum overall width of car	1570 (61.8)	
W106	Front fender overall width	1548 (60.9)	
W107	Rear fender overall width	1570 (61.8)	
W116	Maximum overall width of body	1570 (61.8)	
W117	Body Width at SgRP - Front	1546 (60.9)	
W120	Overall car width, front doors open	3384 (133.2)	3048 (120.0)
W121	Overall car width, rear doors open	--	2974 (117.1)

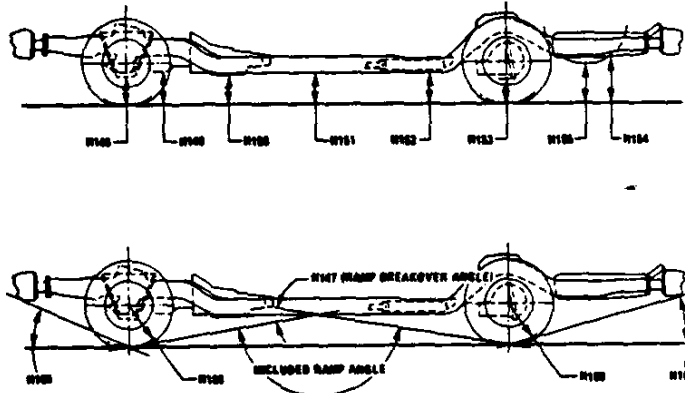
* Primary Dimensions are millimeters unless otherwise shown.

EXTERIOR DIMENSIONS



HEIGHTS

CODE	DESCRIPTION	HATCHBACK COUPES		HATCHBACK SEDAN
		1TB08	1TJ08	1TB68
H101	Overall height (design)	1327 (52.3)	1326 (52.2)	1327 (52.3)
H102	Front bumper to ground	315 (12.4)	311 (12.2)	317 (12.5)
H104	Rear bumper to ground	314 (12.4)	315 (12.4)	313 (12.3)
H111	Rocker panel to ground - rear		187 (7.4)	
H112	Rocker panel to ground - front	193 (7.6)	191 (7.5)	193 (7.6)
H114	Hood at rear to ground	881 (34.7)	878 (34.6)	881 (34.7)
H115	Step height - front (design)	310 (12.2)	308 (12.1)	311 (12.2)
H116	Step height - rear (design)			229 (9.0)
H125	Headlamp to ground	625 (24.6)	621 (24.5)	627 (24.7)
H126	Taillamp to ground	660 (26.0)	661 (26.0)	659 (25.9)
H136	Body O line to ground - front		94 (3.7)	
H137	Body O line to ground - rear		85 (3.3)	



CLEARANCES

H106	Angle of approach (degrees)	25° 55'	25° 09'	25° 74'
H107	Angle of departure (degrees)	22° 40'	22° 47'	22° 30'
H147	Ramp breakover angle (degrees)	16° 65'	16° 49'	16° 15'
H148	Front suspension to ground	138 (5.4)	135 (5.3)	139 (5.5)
H149	Oil pan to ground	153 (6.0)	150 (5.9)	153 (6.0)
H150	Flywheel housing to ground	164 (6.5)	161 (6.3)	164 (6.5)
H151	Frame to ground	277 (10.9)	276 (10.9)	277 (10.9)
H152	Exhaust system to ground	143 (5.6)	142 (5.6)	143 (5.6)
H153	Rear axle to ground		150 (5.9)	
H154	Fuel tank to ground	200 (7.9)	201 (7.9)	200 (7.9)
H155	Tire well to ground	473 (18.6)	474 (18.7)	472 (17.6)
H156	Minimum ground clearance	131 (5.2) (a)	128 (5.0) (a)	132 (5.2) (a)

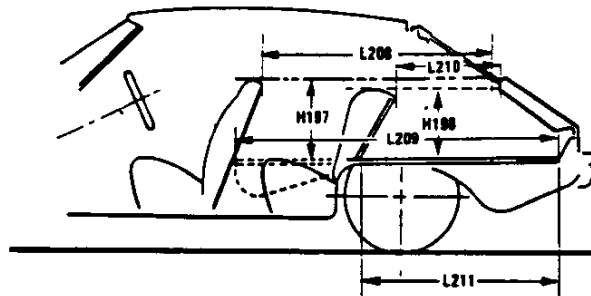
(a) K-Brace under front crossmember.

* Primary Dimensions are millimeters unless otherwise shown.

INTERIOR DIMENSIONS

LUGGAGE COMPARTMENT

CODE	DESCRIPTION	HATCHBACK COUPES		HATCHBACK SEDAN
		1TB08	1TJ08	1TB68
H195	Liftover height	736 (29.0)	737 (29.0)	739 (29.1)
V1	Usable luggage capacity (cu. ft.)	---		



HATCHBACK CARGO SPACE

W4	Shoulder room - rear	1254 (49.4)	1256 (49.4)
H197	Front seat back to load floor height	488 (19.2)	488 (19.2)
L208	Cargo length at - front seat back height	1024 (40.3)	1100 (43.3)
L209	Cargo length at floor - front seat	1471 (59.7)	1547 (60.9)
V3	Total hatchback - cargo index volume (cu. ft.)	764L (27.0)	811L (28.6)

* Primary Dimensions are millimeters unless otherwise shown.

VEHICLE WEIGHTS

MODEL SYMBOL	VEHICLE TYPE Description	SHIPPING WEIGHT			CURB WEIGHT		
		Front	Rear	Total	Front	Rear	Total
4-Cyl.							
1TB08	2-Door Hatchback Coupe	506.9 (1118)	398.7 (879)	905.6 (1997)	502.9 (1109)	428.9 (945)	931.8 (2054)
1TJ08	2-Door Hatchback Coupe	482.8 (1064)	398.6 (879)	881.4 (1943)	478.8 (1056)	428.8 (945)	907.6 (2001)
1TB68	4-Door Hatchback Sedan	515.3 (1136)	417.3 (920)	932.6 (2056)	511.3 (1127)	447.5 (987)	958.8 (2114)

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 (pounds).

OPTIONAL EQUIPMENT

RPO	OPTION	WITH	WEIGHT KILOGRAMS/POUNDS
A77	Automatic Seat & Shoulder Belt System		
BS2	Deluxe Acoustic Package		3.0 (7 lb.)
B37	Floor Mats, Front & Rear		2.7 (6 lb.)
C49	Defogger, Rear Window Electric		1.0 (2 lb.)
C60	Air Conditioning		34.5 (76 lb.)
D35	Dual Sport Rearview Mirrors		1.4 (3 lb.)
F41	Sport Suspension		4.1 (9 lb.)
J50	Power Brakes		3.0 (7 lb.)
MC4	Sport Shifter		1.0 (2 lb.)
N33	Comfortilt Steering Wheel		1.0 (2 lb.)
PB2	Sport Wheel Trim Covers		2.0 (4 lb.)
UA1	Heavy Duty Battery		2.2 (5 lb.)
U58	Radio AM/FM Stereo		2.2 (5 lb.)
U63	Radio AM Pushbutton	1TJ08	2.0 (4 lb.)
U69	Radio AM/FM Pushbutton		2.2 (5 lb.)
U80	Speaker Rear		0.6 (1 lb.)
V08	Heavy Duty Cooling		1.0 (2 lb.)
V55	Luggage Carrier		5.0 (11 lb.)
L18	1.6 Liter, 98 CID L4 Engine (High Output)		3.0 (7 lb.)
MD3	3-Speed Automatic Trans.		18.6 (41 lb.)
M29	3-Speed Automatic Trans.		26.3 (58 lb.)

*Primary mass weights are in kilograms (pounds).

BODY

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EXTERIOR PAINT PROCESS

- 1. RUSTPROOFING.** Assembled car bodies are chemically sprayed to clean and etch the metal surfaces for corrosion resistance and paint adhesion. Unassembled sheet metal parts follow the same process.
- 2. BODY PRIMERS.** Four corrosion resistant primers, specially formulated, are hand sprayed on the body in areas where rust might develop. Lower areas considered especially vulnerable are coated with another rust inhibiting compound.
- 3. SHEET METAL PRIMER** is applied to all outside and inside surfaces of front fenders and hoods. The parts are mechanically dipped or flow-coated to insure coating in all seams and secluded areas, and baked at 390 degrees F. for 30 minutes. A coat of sealer is then applied by hand spray to all surfaces requiring lacquer.
- 4. FLASH PRIMER AND PRIMER-SURFACER COATS.** An air-dry flash primer coat is hand sprayed on surfaces below the body belt line. Then a gray primer-surfacer coat is hand sprayed on all outside surfaces of the body and oven baked for 45 minutes at 285 degrees F.
- 5. INITIAL SANDING.** Power wet sanding, followed by hand sanding is done on all body surfaces requiring lacquering. This insures a smooth surface for the lacquer finish. To remove the water, the body is wiped and run through an infra-red oven.
- 6. LACQUERING.** Three coats of acrylic lacquer are applied on the exterior surfaces of the body and sheet metal parts to build up a finish of the required thickness for each color.
- 7. INITIAL BAKING.** To harden the paint for two tone the body and sheet metal parts are baked for approximately 10 minutes at 200 degrees F.
- 8. FINAL BAKING.** To assure a durable, hard, high luster finish the lacquer is baked for 30 minutes at 325 degrees F. Reheating the lacquer permits paint film to soften, allowing surface blemishes to disappear during the thermo-reflow process.
- 9. UNDERCOATING.** To block out road noise, an asbestos fiber sound deadener with asphalt base is sprayed inside the wheel housings and on the bottom of the underbody at designated areas.
- 10. PAINT REPAIR AND PROTECTION.** Mars, nicks, or scratches that occur during final assembly are corrected at the factory before shipment. When required, light "slush" polishing brings painted surfaces to a high luster finish. Wax is applied to all horizontal surfaces of each vehicle and polished out for protection during shipment. The wax contains no silicones, thus eliminating any paint contamination problem.

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

EXTERIOR-INTERIOR COLORS

EXTERIOR-INTERIOR COMBINATIONS

EXTERIOR COLOR	CODE	INTERIOR TRIM				
		BLACK	BLUE	CAMEL	CARMINE	OYSTER
White C/O	11	X	X	X	X	X
Silver Met. C/O	15	X	X		X	X
Dk. Claret Met.	76			X	X	
Dk. Blue Met.	29		X	X	X	
Lt. Blue Met.	21		X			
Beige	59	X	X	X	X	
Dk. Green Met.	44			X		
Gray	85	X	X		X	X
Red	72	X			X	X
Br. Blue Met.	24	X				X
Bright Yellow	51	X				X
Red Orange	79	X		X		X
Lt. Camel Met.	63	X		X		
Black C/O	19	X	X	X	X	X

CHEVETTE "T" INTERIOR COLOR COMBINATIONS

MODEL	Seat Type	INTERIOR TRIM									
		Black		Dark Blue		Camel Tan		Carmine		Oyster	
		Vinyl	Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl	Cloth	Cloth	
Base - 1TJ00 Hatchback (08)	(A51) Bucket	(1) 17V/19V					62V	62B			
Standard - 1TB00 2-Dr. Hatchback (08)	(AR9) Bucket	(1) 17R/19R		26R	26E	62R	62E	74R			
4-Dr. Hatchback (68)	(AR9) Bucket	(1) 17W/19W		26W	26D	62W	62D	74W			
Deluxe Interior RPO B18 2-Dr. (08)	(AR9) Bucket	(2) (3) 03N/63N	(2) (3) 03C/63C	(4) 23N	(4) 23C			(5) 73N	(5) 73C	(6) 02C	
4-Dr. (68)	(AR9) Bucket	(2) (3) 03Y/63Y	(2) (3) 03G/63G	(4) 23Y	(4) 23G			(5) 73Y	(5) 73G	(6) 02G	

CLOTH AND VINYL USAGE

W, V & R - Patchwork vinyl
D, B & E - Slaton woven cloth
Y & N - Derma vinyl
G & C - Ralston woven cloth

- (1) - 17 Includes an Oyster headlining, sunshades, associated moldings, and assist handle on passenger side when specified. Restricted to the following exterior colors: White, Silver, Lt. Blue Metallic, Bright Yellow, Beige, Lt. Camel Metallic, Gray.
19 Restricted to the remaining exterior colors. No ZP2 override is authorized.
- (2) - Inserts in seats and doors are Oyster, Accent Ribbons are No. 171 Dk. Gray/Oyster, Door and Instrument Panel Moldings are WA-3465 White.
- (3) - Inserts in seats and doors are Camel, Accent Ribbons are No. 942 Dk. Brown/Cream, Door and Instrument Panel Moldings are WA-4891 Beige.
- (4) - Inserts in seats and doors are Oyster, Accent Ribbons are No. 661 Lt. Blue/Dk. Blue, Door and Instrument Panel Moldings are WA-7229 Lt. Blue.
- (5) - Inserts in seats and doors are Oyster, Accent Ribbons are No. 554 Dk. Carmine/Dk. Claret, Door and Instrument Panel Moldings are WA-4409 Red.
- (6) - Inserts in seats and doors are Black, Accent Ribbons are No. 171 Dk. Gray/Oyster, Door and Instrument Panel Moldings are WA-3465 White.

EXTERIOR-INTERIOR COLORS

1TB00

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

EXTERIOR COLORS				STANDARD INTERIOR TRIM				
				Black	Dk. Blue	Camel Tan	Carminc	-
BODY (U & L)				DELUXE INTERIOR TRIM				
				Blk./Oyster	Dk. Blue/Oys.	Blk./Camel	Carminc/Oys.	Oyster/Blk.
ACCENT (M)		STRIPE COLOR						
Black WA 848	19	Silver Met. WA 7022	15	Dk. Gray /White	-	-	-	-
Black WA 848	19	Lt. Camel Met. WA 7136	63	-	-	Brown /Gold	-	-
Lt. Blue Met. WA 7102	21	Dk. Blue Met. WA 7103	29	-	Lt. Blue /Dk. Blue	-	-	-
Red WA 4998	72	Silver Met. WA 7022	15	-	-	-	Red /Dk. Carminc	-
Gray WA 7101	85	White WA 3967	11	-	-	-	-	Dk. Gray /White

** NO COLOR OVERRIDES ARE ALLOWED!

STRIPE COLOR IDENTIFICATIONS			
OUTER		INNER	
Lt. Blue	WMH 7229	Dk. Blue	WMH 7230
Brown	WMH 8086	Gold	WMH 8063
Red	WMH 4409	Dk. Carminc	WMH 7072
Dk. Gray	WMH 8185	White	WMH 3967

EXTERIOR-INTERIOR COLORS

SPORT STRIPE PKG. (RPO DX5) *(1TB00)
NOT AVAILABLE WITH TWO TONE PAINT RPO D84

EXTERIOR COLOR		STANDARD INTERIOR TRIM				DELUXE INTERIOR TRIM				
		Black	Dk. Blue	Camel Tan	Carmine	Blk./Oyster	Blk./Camel	Dk. Blue/ Oyster	Carmine Oyster	Oyster/Blk.
		STRIPE COLOR				STRIPE COLOR				
WHITE	11	Silver (S)	Blue (S)	Gold (G)	Red (G)	Silver (S)	Gold (G)	Blue (S)	Red (S)	Silver (S)
SILVER MET.	15	Silver (S)	Blue (S)	-	Red (S)	Silver (S)	-	Blue (S)	Red (S)	Silver (S)
BLACK	19	Silver (S)	Blue (S)	Gold (G)	Red (S)	Silver (S)	Gold (G)	Blue (S)	Red (S)	Silver (S)
LT. BLUE MET.	21	Blue (S)	Blue (S)	-	-	-	-	Blue (S)	-	-
BRT. BLUE MET.	24	Silver (S)	Silver (S)	-	-	Silver (S)	-	-	-	Silver (S)
DK. BLUE MET.	29	Silver (S)	Blue (S)	Gold (G)	Red (S)	-	-	Blue (S)	-	Silver (S)
DK. GREEN MET.	44	Gold (G)	-	Gold (G)	-	-	Gold (G)	-	-	Silver (S)
BRT. YELLOW	51	Silver (S)	-	Gold (G)	-	Silver (S)	Gold (G)	-	-	Silver (S)
BEIGE	59	Gold (G)	Gold (G)	Gold (G)	Red (G)	-	Gold (G)	-	-	-
LT. CAMEL Met.	63	Gold (G)	-	Gold (G)	-	-	Gold (G)	-	-	-
RED	72	Silver (S)	-	Gold (G)	Red (S)	Silver (S)	-	-	Red (S)	Silver (S)
DK. CLARET MET.	76	Gold (G)	-	Gold (G)	Red (S)	-	Gold (G)	-	Red (S)	Silver (S)
RED ORANGE	79	Silver (S)	-	Gold (G)	-	Silver (S)	-	-	-	Silver (S)
GRAY	85	Silver (S)	Blue (S)	Gold (S)	Red (S)	Silver (S)	Gold (S)	-	Red (S)	Silver (S)

* - No Color Overrides are Allowed!

STRIPE COLOR RPO IDENTIFICATIONS

16A Silver		27A Blue		54A Gold		74A Red	
Gray Met.	WMH 7054	Lt. Blue	WMH 7229	Lt. Gold	WMH 7083	Brt. Red	WMH 7251
Silver	WMH 7184	Dk. Blue	WMH 7230	Dk. Gold	WMH 8168	Dk. Red	WMH 7221
Gray Met.	WMH 7054	Lt. Blue	WMH 7229	Lt. Gold	WMH 7083	Brt. Red	WMH 7251

BODY CONSTRUCTION AND GLASS AREA

GENERAL

Construction Body-frame integral, using large individual body panels welded together forming complete sub-assemblies. All major sub-assemblies are double panel construction except underbody and rear end panel. The full roof panel subassembly is formed to provide front and rear headers and side rails. Exterior front end sheet metal panels are removable with bolt on fenders. Main front end structure is welded to body proper and forms the base for attachment of engine, front suspension, steering and front end sheet metal.

DOORS

Type Double panel construction, hinged at front. Side guard beams. Standard spring loaded hold-open feature with two position detent. Welded-on strap type hinges.

Handles Flush lift bars

Glass Full, curved ventless

HOOD AND HATCH DOOR

Type Double panel construction, rear hinged, pop-up springs over-center, prop rod holds hood open for engine compartment access, on hatch door LH, telescoping gas spring.

Release Internal, lever located under instrument panel, left of steering column.

VENTILATION

High level Air Intake for Passenger

Compartment Double wall plenum chamber

Powered System Positive, low blower speed activated thru ignition switch.

SEATS

Type Bucket seats, full foam molded construction with integral head restraints. Folding rear seat standard equipment.

WINDSHIELD WIPERS AND WASHERS

Type Dual 2-speed electric with 16" blades

Linkage Parallel acting

Washer System Electric, dual spray

HEADLIGHTS

Type Single rectangular lamps.

SPARE TIRE MOUNT

Location Under floor of luggage compartment

Tools Bumper jack with combination lever handle and wheel nut wrench.

BODY GLASS VISIBILITY AREA *

	MODELS	
	1TB08 - 1TJ08	1TB68
Windshield	6735 (1043.9 in. ²)	
Front Door Window	5695 (882.7 in. ²)	4805 (744.8 in. ²)
Rear Door Window	--	4848 (751.4 in. ²)
Rear Quarter Window	4231 (655.8 in. ²)	1250 (193.7 in. ²)
Rear Window	5835 (904.4 in. ²)	
Total Area (Sq. In.)	22496 (3486.9)	23473 (3638.3)

Windshield Curved thin laminated plate

Front & Rear Doors Curved tempered safety plate

Rear Quarter Windows Curved tempered safety plate

Rear Hatch Curved Tempered safety plate (stationary)

* Primary dimensions cm² (secondary dimensions in.²)

CHASSIS

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

FRAME AND FRONT SUSPENSION

FRAME

Description Unitized frame with crossmember reinforcement

FRONT SUSPENSION

Description Independent, SLA type, coil springs with outboard mounted shock absorbers, spherical joint steering knuckle.

Wheel Travel (design)

Total 179.1 mm (7.05 in.)
 Jounce 87.7 mm (3.45 in.)
 Rebound 91.4 mm (3.60 in.)
 Wheel to spring travel ratio 1.74

CONTROL ARMS

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

STEERING KNUCKLES

Description Forged steel with integral spindle, integral brake caliper mounting pads and integral steering knuckle arm.

Spindle Diameters

Inner bearing 26.9 mm (1.06 in.)
 Outer bearing 17.5 mm (0.69 in.)

Spindle Thread Size 3/4-20 NEF (MIG-1)

Wheel Bearings

Type, inner & outer Taper roller

SPHERICAL JOINTS

Type Ball stud
 Upper Compression
 Lower Tension
 Bearing Surfaces
 Upper & Lower Sintered iron

SHOCK ABSORBERS

Type Direct, double acting, hydraulic
 Piston Diameter 1.0 in. (25.4 mm)

FRONT WHEEL ALIGNMENT (Design)

Caster (degrees) $+4.5^{\circ} \pm 1^{\circ}$
 Camber (degrees) $+2.0^{\circ} \pm .4^{\circ}$
 Toe-In (total) $+1.0^{\circ} \pm .05^{\circ}$
 Steering axis inclination 7.55° @ 30' camber

STABILIZER BAR

Type Link
 Material HR steel
 Diameter 22.1 mm (0.87 in.)
 Bushing Material Rubber

GENERAL SUSPENSION PROVISIONS

Anti-dive control Angle of front upper control arm

FRONT SPRINGS

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

FRONT SPRING SPECIFICATIONS

Part Number	Assy. Code	Cut-Off Length		Wire Dia.		Total Coils	Deflection Rate		HEIGHTS			
		mm	in.	mm	in.		N/mm	lbs./in.	Free		Working	
									mm	in.	mm @ N	in. @ lbs.
362191	ATB	2633.9	103.70	11.33	.446	8.62	22.7	130	355.5	14.00	209.3 @ 3314	8.24 @ 745
362192	ATC	2652.6	104.43	11.68	.460	8.65	25.2	145	351.3	13.83	209.3 @ 3581	8.24 @ 805
362193	ATD	2690.8	105.94	12.06	.475	8.74	28.0	160	347.6	13.69	209.3 @ 3870	8.24 @ 870
463871	AFK	2803.7	110.38	12.45	.490	9.07	30.0	170	347.6	13.69	209.3 @ 4148	8.24 @ 933
463872	AFM	2790.3	109.85	12.90	.508	8.99	34.5	195	338.9	13.34	209.3 @ 4471	8.24 @ 1005
463873	AFN	2605.0	102.56	13.83	.545	8.32	48.8	280	309.4	12.18	209.3 @ 4887	8.24 @ 1099
463874	AFR	2613.5	102.89	14.59	.574	8.28	59.4	340	300.7	11.84	209.3 @ 5428	8.24 @ 1220

STEERING, DRIVELINE, WHEELS AND TIRES

STEERING

Wheel	
Type	Round with angled shroud
Diameter	381.0 mm (15.0 in.)
Column Energy absorbing – mast jacket, tube and steering shaft designed to collapse under various front impact conditions.	
Gear Type Rack and pinion	
Ratios, Gear	19.0:1
Ratios, Overall	18.4:1
Number of wheel turns, lock to lock	3.6
Linkage Parallelogram type, ahead of front wheels	
Turning Diameter – m (ft.)	
Model 08	
Outside front, wall to wall	10.5 (34.3)
curb to curb	9.2 (30.2)
Model 68	
Outside front, wall to wall	10.6 (34.9)
curb to curb	9.4 (30.8)

DRIVELINE

Propeller Shaft Straight tube attached by universal joints to a solid steel pinion extension. A torque tube that houses the extension shaft is bolted to the differential housing.	
Diameter (O.D.)	
Tube	50.8 mm (2.0 in.)
Shaft	23.0 mm (0.905 in.)
Wall Thickness 1.40 mm (0.055 in.)	
Length (C/L of U joints)	
Tube	
4-Speed Manual	
Model 08	731.5 mm (28.8)
Model 68	808.2 mm (31.8)
Automatic Transmission	
Model 08	586.0 mm (23.1)
Model 68	662.2 mm (26.1)
Shaft	573.8 mm (22.6 in.)
Universal Joints	
Type	Cross
Number Used	Two
Bearings	Prepacked, anti-friction

WHEELS

Type	Short spoke spider
Rim Size	13 x 5 in.
Offset	37.0 mm
Attachment to Hub	
Type	4 hex nuts
Size	M12 x 1.5
Bolt circle diameter	100 mm (3.94 in.)

WHEEL, SPARE TIRE

Size	14 x 4
Offset	49 mm

TIRES, STANDARD EQUIPMENT

Type	Glass belted radial
Size	P155/80R-13
Sidewall	
Base (1TJ08)	Blackwall
Base 1TB00, Opt. 1TJ08	White stripe
Static loaded radius	
Millimeters	296.4
Inches	10.67
Loaded rev/km @ 72 kmh	569
Loaded rev/mi @ 45 mph	916
Capacity @ 180 kPa	380 kg
Capacity @ 26 PSI	838 lbs.

TIRES, OPTIONAL EQUIPMENT

Type	Steel belted radial
Size	P175/70R13
Sidewall	
Base	Blackwall
Optional	White stripe & white letter
Static loaded radius	
Millimeters	263
Inches	10.35
Loaded rev/km @ 72 kmh	571
Loaded rev/mi @ 45 mph	919
Capacity @ 180 kPa	385
Capacity @ 26 psi	849

TIRE, SPARE

Type	Compact
Size	T115/70D14

REAR AXLE AND SUSPENSION

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 28.4 mm (1.12 in.)

Drive Pinion Bearing Adjustment Shim

Lubricant

Type GL-5 Gear lubricant

Viscosity 80W or 80W-90

Capacity 0.8 litres (1.75 pints)

AXLE SHAFT

Description Forged and hardened steel with integral drive flange

Wheel Bearings Single row cylindrical roller

Oil Seal Steel encased, spring loaded synthetic rubber

RING AND PINION GEAR TOOTH COMBINATIONS

Ring Gear Diameter 165 mm (6.50 in.)

Axle Ratio
3.70 37, 10

REAR SUSPENSION

Description Salisbury rear axle with coil springs; parallel lower control arms, torque tube and track bar.

Wheel Travel (Design)

Total 222 mm (8.74 in.)

Jounce 99.5 mm (3.92 in.)

Rebound 122.5 mm (4.82 in.)

Wheel to spring, travel ratio 1.205:1

SHOCK ABSORBERS

Type Direct, double acting hydraulic

Piston diameter 25.4 mm (1.0 in.)

REAR SPRINGS

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

REAR SPRING SPECIFICATIONS

Part Number	Assy. Code	Cut-Off Length		Wire Dia.		Total Coils	Deflection Rate		HEIGHTS			
		mm	in.	mm	in.		N/mm	lb./in.	Free		Working	
									mm	in.	mm @ N	in. @ lbs.
354159	NAM	2301.9	90.63	13.19	.519	8.59	26.2	150	317.1	12.48	233.7 @ 1655	9.20 @ 320
354183	NAL	2301.9	90.63	13.19	.519	8.59	26.2	150	328.1	12.92	233.7 @ 1875	9.20 @ 421
354188	NAN	2301.9	90.63	13.19	.519	8.59	26.2	150	339.1	13.35	233.7 @ 2095	9.20 @ 471
370934	NCR	2301.9	90.63	13.19	.519	8.59	26.2	150	350.1	13.78	233.7 @ 2315	9.20 @ 520
463815	NHC	2298.6	90.50	13.48	.531	8.59	31.1	178	350.0	13.78	233.7 @ 2535	9.20 @ 570

BRAKES

GENERAL	Type	Front - Disc; Rear - Drum		
		Manual - Standard	Power - Optional	
	System	Dual circuit hydraulic system with warning light and self-adjusting features; proportioning valve provides balance between front and rear brakes		
Front Brakes	Type	Disc - single piston floating caliper		
	Material	Cast iron - solid, integral with hub		
	Diameter and Width - Disc	246 x 11.0 mm (9.68 x 0.433 in.)		
	Lining Material	Inner - organic; Outer - semi-metallic		
	Method of attachment	Bonded		
	Lining size (length x width x thickness)	Inboard	114.0 x 34.0 x 9.40 mm (4.49 x 1.34 x .370 in.)	
		Outboard	114.0 x 30.0 x 9.40 mm (4.49 x 1.18 x .370 in.)	
	Lining area - cm² (in²)	201.9 (31.30)		
	Effective area - cm² (in²)	201.9 (31.30)		
	Swept area - cm² (in²)	1238.7 (192.0)		
Piston diameter - mm (in)	47.62 (1.875)			
Rear Brakes	Type	Drum - composite web cast into rim		
	Material	Web - HR steel; Rim - Cast alloy iron		
	Diameter and Width - Drum - mm (in)	200 x 45 (7.87 x 1.77)		
	Lining material	Organic		
	Method of attachment	Riveted		
	Lining size (length x width x thickness)	Primary	167.7 x 43.9 x 3.8 (6.60 x 1.73 x 0.15)	
		Secondary	203.3 x 43.9 x 4.8 (8.0 x 1.73 x 0.19)	
	Lining area - cm² (in²)	324.8 (50.36)		
	Effective area - cm² (in²)	313.0 (48.5)		
	Swept area - cm² (in²)	565.8 (87.7)		
Piston diameter - mm (in)	19.0 (0.75)			
Apply System	Master cylinder diameter - mm (in)	19.0 (0.75)		
	Piston travel - mm (in)	30.7 (1.21)		
	Pedal travel - mm (in)	177 (6.97)	151.4 (5.96)	
	Pedal arc ratio	5.8:1	4.75:1	
	Line pressure @ 100 lb. pedal load	1270		
Parking Brake	Type	Mechanical pull rods and cables operate rear service brakes. 'ON' warning lamp provided.		
	Control	Lever, floor mounted in center console		
	Total effective area - cm² (in²)	313.0 cm ² (48.5 in ²)		

BULBS AND LAMPS

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Automatic transmission quadrant	1-194	2
Back-up	2-1156	32
Brake warning, Parking	1-194	2
Check engine indicator	1-194	2
Courtesy lamp	2-631	6
Directional signal indicators	2-194	2
Rear Compartment Lamp	1-561	12
Header dome lamp	1-561	12
Engine warning	1-194	2
Generator indicator	1-194	2
Glove Box	1-1891	2
Headlamp	2-6052	High beam 65W Low beam 55W
Headlamp hi-beam indicator	1-194	2
Heater or A/C control	1-194	2
Instrument cluster	6-194	2
Instrument cluster	1-161	1
	5-194	2
License plate, rear	1-194	2
Oil pressure indicator	1-194	2
Parking		
Park	2-1157	3
Turn		32
Radio - RPO U69	2-37	5
RPO U63		
RPO U58		
Seat belt warning	1-194	2
Side marker - front	2-194	2
Side marker - rear	2-194	2
Tail		
Tail	2-1157	3
Stop and turn		32
Temperature indicator	2-194	2
Underhood Lamp	1-93	15
W/S Washer & Light Switch Indicator	1-194	2

FUSES AND CIRCUIT BREAKERS

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT *
Air Conditioning	30 amp fuse	In line
	20 amp fuse	Fuse panel (h)
Automatic trans. indicator	4 amp fuse	Fuse panel (f)
Back-up lamps	20 amp fuse	Fuse panel (b)
Brake warning lamp	10 amp fuse	Fuse panel (c)
Check engine	10 amp fuse	Fuse panel (c)
Choke heater	20 amp fuse	Fuse panel
Cigarette lighter	20 amp fuse	Fuse panel (e)
Cigarette lighter lamp	4 amp fuse	Fuse panel (f)
Clock	20 amp fuse	Fuse panel (e)
Courtesy lamp	20 amp fuse	Fuse panel (e)
Defogger, electric rear	10 amp fuse	Fuse panel (c)
Direction signal indicator lamps	20 amp fuse	Fuse panel (b)
Header dome lamp	20 amp fuse	Fuse panel (e)
Dome and reading lamp	20 amp fuse	Fuse panel (e)
Fuel gauge	10 amp fuse	Fuse panel (c)
Generator indicator lamp	10 amp fuse	Fuse panel (c)
Glove box lamp	20 amp fuse	Fuse panel (e)
Headlamp buzzer	10 amp fuse	Fuse panel (c)
Headlamps	Circuit breaker	Light switch
Headlamp hi-beam indicator lamp	Circuit breaker	Light switch
Heater control lamp	4 amp fuse	Fuse panel (f)
Heater	20 amp fuse	Fuse panel (h)
Idle stop solenoid	10 amp fuse	Fuse panel (g)
Instrument cluster lamps	4 amp fuse	Fuse panel (f)
Key warning buzzer	20 amp fuse	Fuse panel (e)
License plate lamp	20 amp fuse	Fuse panel (d)
Oil pressure indicator lamp	10 amp fuse	Fuse panel (c)
Park and turn lamp	20 amp fuse	Fuse panel (d)
Pulse wiper system	10 amp fuse	Fuse panel (g)
Radio	10 amp fuse	Fuse panel
Radio lamp	4 amp fuse	Fuse panel (f)
Rear window defogger	20 amp fuse	Fuse panel (h)
Seat belt warning lamp	10 amp fuse	Fuse panel (c)
Seat belt warning buzzer	10 amp fuse	Fuse panel (c)
Side marker lamps	20 amp fuse	Fuse panel (d)
Stop and turn lamp	20 amp fuse	Fuse panel (a)
Tail, turn lamps	20 amp fuse	Fuse panel (d)
Temperature gauge	10 amp fuse	Fuse panel (c)
Temperature indicator lamp	10 amp fuse	Fuse panel (c)
Traffic hazard indicator	20 amp fuse	Fuse panel (a)
Underhood lamp	20 amp fuse	Fuse panel (e)
Windshield wiper	25 amp fuse	Fuse panel (j)
Windshield wiper light	4 amp fuse	Fuse panel (f)

* Letter suffix indicates same circuit



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POWER TRAINS

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POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	MODEL APPLICATION	AXLE RATIO*		I. W. CLASS kg (lbs)
			BASE	OPTION	
1.6 Liter L-4 (98 CID) L17 Base - All States	4-Speed Manual (3.75 low)	All Models	3.70	-	1077 (2375) **
	3-Speed Auto '180'		3.70	-	
	3-Speed Auto '200' (a)		3.70	-	
1.6 Liter L-4 (98 CID) L18 Avail - All States exc. Calif.	4-Speed Manual (3.75 low)	All Models	3.70	-	1077 (2375) **
	3-Speed Auto '180'		3.70	-	
	3-Speed Auto '200' (a)		3.70	-	

(a) - Manufacturing option

* - Ring gear diameter - 165 mm (6.50")

** - 4-door sedans - 1134 kg (2500 lbs.)

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSION

ENGINE	CARBURETION	TRANSMISSION	TOTAL GEAR REDUCTION					AXLE RATIO
			1st	2nd	3rd	4th	Rev.	
1.6 Litre L-4 (98.0 Cu. In.)	2-Barrel	4-Speed	13.87	7.99	5.11	3.70	14.13	3.70

WITH AUTOMATIC TRANSMISSION

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION	AXLE RATIO
1.6 Litre L-4 (98.0 Cu. In.)	3-Speed Automatic '180'	Drive	19.54:1 - 3.70:1	3.70
		Second	19.54:1 - 5.48:1	
		Low	19.54:1 - 8.88:1	
		Reverse	15.63:1 - 7.10:1	
	3-Speed Automatic '200'	Drive	23.82:1 - 3.70:1	3.70
		Second	23.82:1 - 5.81:1	
		Low	23.82:1 - 10.14:1	
		Reverse	18.00:1 - 7.66:1	

ENGINE DATA AND RATINGS

GENERAL DATA

Engine Type		1.6 Liter L4-In-Line OHC	
Piston Displacement	Liters	1.6	
	Cubic Inch	98.0	
Availability		RPO L17	RPO L18
Number of Cylinders		Four	
Bore and Stroke	Millimeters	82 x 75.7	
	Inches	3.228 x 2.98	
Compression Ratio		8.6:1	
Taxable (SAE)	Kilowatts	12.5	
	Horsepower	16.7	
Firing Order		1-3-4-2	
Idling Speed	Manual (In Neutral)	800	800
	Automatic (In Drive)	750 (800)	750
Compression Press. @ Cranking Speed, Engine Hot		Kilopascals	
Power Plant Mounting		Two front and one rear	
Measurements - mm (in)	Length (a)	591 (23.3)	
	Width (b)	449 (17.7)	
	Height (c)	660 (26.0)	

ADVERTISED ENGINE RATING

Engine		Base - RPO L17	Optional - RPO L18
Net Brake @ RPM	Kilowatts	52 @ 5200	55 @ 5200
	Horsepower	70 @ 5200	74 @ 5200
Net Torque @ RPM	Newton/meter	111 @ 2400	119 @ 2800
	Pound/Foot	82 @ 2400	88 @ 2800

- (a) Fan to rear of engine block
 (b) Across inlet and exhaust manifold pipes
 (c) Top of air cleaner to bottom of oil pan

ENGINE SPEED AND PISTON TRAVEL

Engine		1.6 Liter L-4			
Transmission		4-Speed Manual	3-Spd Auto '180'	3-Spd Auto '200'	
Rear Axle Ratio		3.70:1			
Tire Size		P155/80R-13			
Crankshaft Revolutions per	Kilometer	2105.3			
	Mile	3389.2			
Crankshaft RPM @ Mile per hour and 1 Kilometer per hour	Low	km/h	81.8	52.3	59.7
		mph	211.9	135.6	154.8
	Second	km/h	47.1	32.3	34.2
		mph	122.0	83.6	88.7
	Third	km/h	30.1	21.8	
		mph	78.0	56.5	
	Fourth	km/h	21.8	-	
		mph	56.5	-	
	Reverse	km/h	83.3	41.9	45.1
		mph	215.8	108.5	116.9
Piston Travel	Millimeter/Kilometer	1045.7			
	Feet/Mile	1683.3			

VEHICLE PERFORMANCE FACTORS

ENGINE	1.6 LITER L-4 (98.0 CU. IN.)		
	52 kW 70 HP		55 kW 74 HP
MODEL	1TJ08	1TB08	1TB68

4-SPEED MANUAL TRANSMISSION

Performance	Mass – kilograms	1176	1205	1227
	Weight – pounds	2593	2656	2705
Kilograms per net kilowatt		22.6	23.2	22.3
Pounds per net horsepower		37.0	37.9	36.5
Kilograms per liter displacement		735.0	753.1	766.9
Pounds per cubic inch displacement		26.5	27.1	27.6
Net kW per liter displacement		32.5	32.5	34.4
Net HP per cubic inch displacement		0.714	0.714	0.755
Power	liter/kilometer	59.5	59.5	59.5
Displacement	Cubic foot/mile	96.1	96.1	96.1
Displacement	liter/tonne kilometer	45.9	44.8	44.0
Factor	Cubic foot/ton mile	74.1	72.4	71.0

3-SPEED AUTOMATIC TRANSMISSION

Performance	Mass – kilograms	1197	1226	1248
	Weight – pounds	2639	2703	2751
Kilograms per net kilowatt		23.0	23.6	22.7
Pounds per net horsepower		37.7	38.6	37.2
Kilograms per liter displacement		748.1	766.2	780.0
Pounds per cubic inch displacement		26.9	27.6	28.1
Net kW per liter displacement		32.5	32.5	34.4
Net HP per cubic inch displacement		0.714	0.714	0.755
Power	liter/kilometer	59.5	59.5	59.5
Displacement	cubic foot/mile	96.1	96.1	96.1
Displacement	liter/tonne kilometer	45.1	44.0	43.2
Factor	cubic foot/ton mile	72.8	71.1	69.8

GLOSSARY

(English equivalent is bracketed)

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

PRINCIPAL COMPONENTS

CYLINDER BLOCK

Material	Cast alloy iron
Bore Diameter	
Millimeters	82
Inches	3.228
Bore Spacing (C/L to C/L)	
Millimeters	91
Inches	3.6
Bearing Caps	5-cast iron 2-bolt attachment
Water Jackets	Full length around each cylinder

CYLINDER HEAD

Material	High chrome cast alloy iron
Construction	Overhead camshaft - cross flow head - induction hardened exhaust valve seats.
Number of bolts	10
Bolt size	
Millimeters	11.0; 16.5/mm
Inches	.4330; 16 threads/inch

COMBUSTION CHAMBER VOLUME

Total chamber volume of assembled engine with piston at top center	
Liters	.053
Cubic Inches	3.23

INLET MANIFOLD

Material	Aluminum
Type	4 branch, water heated

EXHAUST MANIFOLD

Material	Cast nodular iron
Type	
RPO L17	Single exhaust pipe take down
RPO L18	Dual exhaust pipe takedown
Outlet Diameter - mm (in.)	
RPO L17	55.9 (2.20)
RPO L18	39.0 (1.54)

CRANKSHAFT

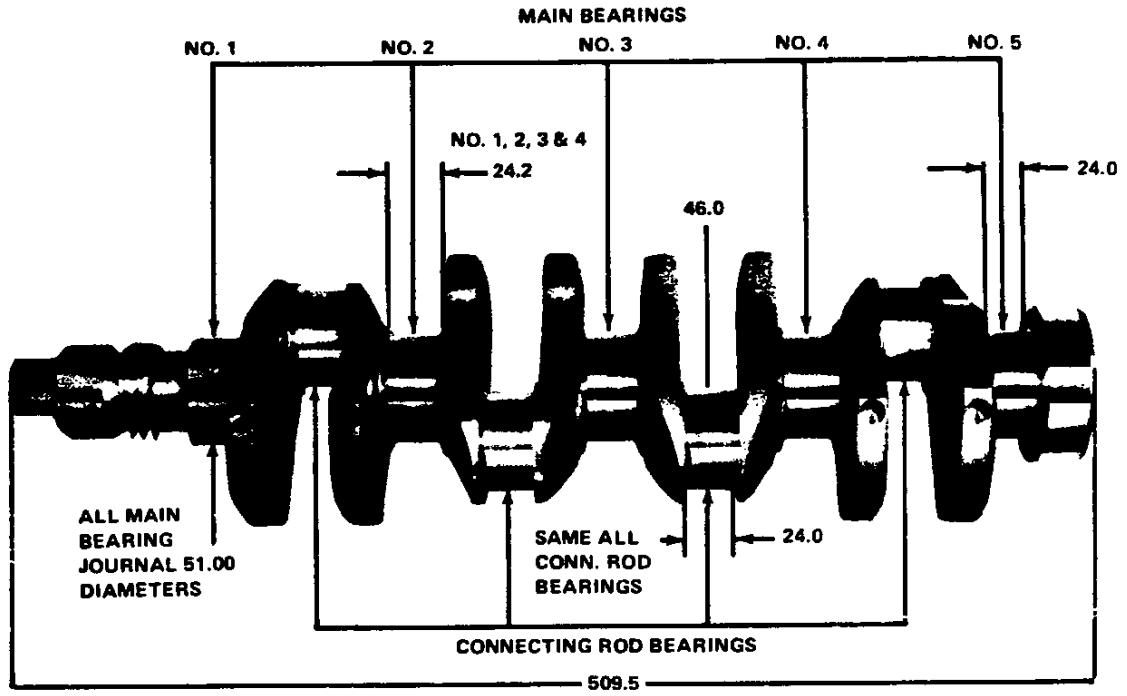
Material	Cast nodular iron
Counter Weights	4
Crankarm Length	
Millimeters	37.8
Inches	1.49
Thrust against bearing No. 5	
End play	
Millimeters	0.10-0.20
Inches	.004-.008
Drive Gear	
Material	Sintered iron sprocket
Pitch Diameter	
Millimeters	57.73
Inches	2.273
Width	
Millimeters	23.45-23.65
Inches	.923-.931
No. of teeth	19

MAIN BEARINGS

Material	Premium aluminum
Type	Precision removable
Clearance	
Millimeters	.008-.074
Inches	.0003-.0029
Theoretical Inner Diameter	
Millimeters	51.37
Inches	2.0226
Effective Length	
No. 1, 2, 3 & 4	
Millimeters	18.59
Inches	.732
No. 5	
Millimeters	14.53
Inches	.572

PRINCIPAL COMPONENTS

1.6 LITER L-4 CRANKSHAFT AND BEARINGS



NOTE: Dimensions are shown in millimeters.

PRINCIPAL COMPONENTS

CAMSHAFT

Location	In cylinder head
Type of drive	Fiberglass reinforced rubber timing belt with cast iron drive sprockets
Sprocket	
Diameter	
Millimeters	110.67
Inches	4.357
Width	
Millimeters	20.5
Inches	.807
Number of teeth	38
Timing belt	
Width	
Millimeters	19.1
Inches	0.75
Number of teeth	100
Pitch	
Millimeters	9.54
Inches	.375

VALVE TRAIN

Type	Direct action, cam lobes drive tappets
Valve Tappets	Hydraulic valve lash adjuster
Lobe Lift - RPO L17	
Millimeters	5.893 Inlet & Exhaust
Inches	0.2320 Inlet & Exhaust
Lobe Lift - RPO L18	
Millimeters	6.116 Inlet & Exhaust
Inches	0.2407 Inlet & Exhaust
Valve Lift	
Millimeters	9.819 Inlet & Exhaust
Inches	.3866 Inlet & Exhaust

VALVE SPRINGS

Type	Single spring with no damper
Diameter (I.D.)	
Millimeters	25.0
Inches	.984
Free length	
Millimeters	38.23
Inches	1.505
Installed length	
Valves closed	
Newtons @ millimeters	284.0-320.0 @ 32.0
Pounds @ inches	64-72 @ 1.26
Valves opened	
Newtons @ millimeters	743.0-797.0 @ 22.5
Pounds @ inches	167-179 @ .886

VALVE TIMING (RPO L17)

(Crankshaft Degrees - Excluding Ramps)

Inlet Valve	
Opens - BTC	28°
Close - ABC	76°
Duration	284°
Exhaust Valve	
Opens - BBC	72°
Close - ATC	32°
Duration	284°

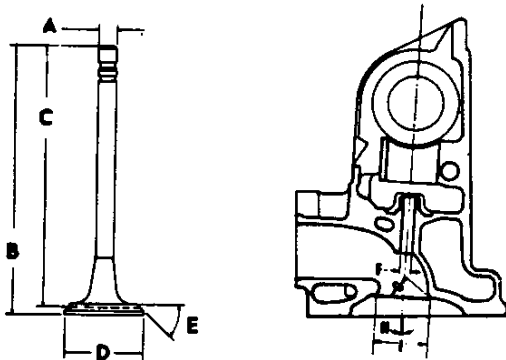
VALVE TIMING (RPO L18)

Inlet Valve	
Opens - BTC	31°
Closes - ABC	73°
Duration	284°
Exhaust Valve	
Opens - BBC	69°
Closes - ATC	35°
Duration	284°

PRINCIPAL COMPONENTS

VALVES - INLET

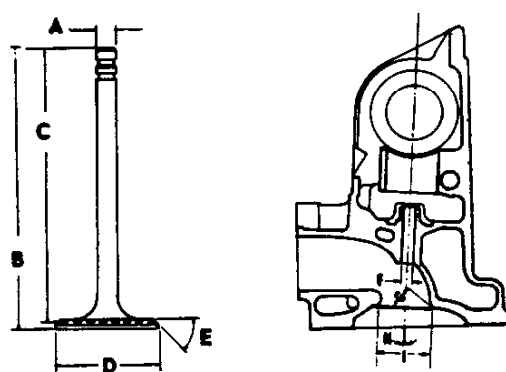
Material High alloy steel
 Coating Aluminized head and seats
 Stems Chrome flash



A - Stem Diameter	
Millimeters	7.972-7.985
Inches	.3138-.3144
B - Overall Length	
Millimeters	98.245-98.755
Inches	3.868-3.888
C - Gage Length	
Millimeters	96.375-96.625
Inches	3.794-3.804
D - Overall Head Diameter	
Millimeters	38.87-39.13
Inches	1.5303-1.5405
E - Angle of Face	45°
F - Guide Diameter	
Millimeters	8.016-8.024
Inches	.3156-.3159
G - Angle of Seat	46°
H - Valve Angle	9°
I - Valve Seat Diameter	
Millimeters	45.0
Inches	1.772

VALVE - EXHAUST

Material High alloy steel with stellite seat
 Stems Full chrome



A - Stem Diameter	
Millimeters	7.952-7.965
Inches	.3130-.3136
B - Overall Length	
Millimeters	98.695-99.205
Inches	3.886-3.906
C - Gage Length	
Millimeters	96.375-96.625
Inches	3.794-3.804
D - Overall Head Diameter	
Millimeters	31.87-32.13
Inches	1.2547-1.2650
E - Angle of Face	45°
F - Guide Diameter	
Millimeters	8.016-8.024
Inches	.3156-.3159
G - Angle of Seat	46°
H - Valve Angle	9°
I - Valve Seat Diameter	
Millimeters	37.0
Inches	1.457

PRINCIPAL COMPONENTS

PISTONS

Material	Cast aluminum alloy
Head Type	
RPO L17 & L18	Sump
Skirt	Slipper
Top land clearance	
Millimeters	0.65-0.89
Inches	.0256-.0350
Skirt clearance	
Millimeters	.020-.040
Inches	.0008-.0016
Compression ring groove depth	
Millimeters	4.167-4.407
Inches	.1641-.1735
Oil ring groove depth	
Millimeters	5.017-5.257
Inches	.1975-.2070
Pin bore offset	
Millimeters	0.80
Inches	0.031
Compression height	
Millimeters	38.0
Inches	1.50

PISTON PINS

Material	Chromium steel
Pin mounting	Locked in rod by shrink fit
Length	
Millimeters	69.7-70.3
Inches	2.7440-2.767
Diameter	
Millimeters	22.992-22.995
Inches	.9052-.9053
Clearance in piston	
Millimeters	.003-.007
Inches	.00012-.00027

CONNECTING RODS

Material	Drop forged steel
Length (center to center)	
Millimeters	122.0
Inches	4.803

CONNECTING ROD BEARINGS

Material	Premium aluminum
Type	Precision removable
Clearance	
Millimeters	0.033-0.52
Inches	.013-.060

CONNECTING ROD BEARINGS (Continued)

Theoretical diameter	
Millimeters	46.014
Inches	1.812
Effective length	
Millimeters	20.779
Inches	.818
End play	
Millimeters	0.11-0.30
Inches	.004-.012

COMPRESSION RINGS – UPPER

Material	Nodular iron
Type	Inside bevel, barrel face
Coating	Moly channel
Width	
Millimeters	1.943-1.969
Inches	.0765-.0775
Wall thickness	
Millimeters	3.48-3.72
Inches	.137-.146
Gap	
Millimeters	0.23-0.46
Inches	.009-.018

COMPRESSION RINGS – LOWER

Material	Cast alloy iron
Type	Tapered face, reverse twist
Coating	Wear resistant
Width	
Millimeters	1.959-1.984
Inches	.0771-.0781
Wall thickness	
Millimeters	3.48-3.72
Inches	.137-.146
Gap	
Millimeters	0.23-0.48
Inches	.009-.019

OIL CONTROL RINGS

Type	Multi-piece (two rails and one-spacer)
Material	
Rails	Steel
Spacer	Stainless steel
Rail coating	Chrome plated
Width (assembled)	
Millimeters	3.98-4.03
Inches	.1566-.1586
Gap	
Millimeters	0.38-1.40
Inches	.015-.055

FUEL AND EXHAUST SYSTEM

FUEL SYSTEM

FUEL TANK

Capacity – approximately 47.3 liters (12.5 gals.)
 Location Under compartment load floor
 Filler Location Left rear quarter

FUEL FILTERS – DUAL

In fuel tank Mesh strainer
 In carburetor Inlet Paper element

FUEL PUMP

Type Mechanical
 Location Lower left front of engine
 Pressure Range
 Kilopascals 34.5-44.8
 Pounds/square inch 5.00-6.50

CHOKE

Type Electric

AIR CLEANER

Type Replaceable paper element, single snorkel
 Filter element Oil-wetted paper

CARBURETORS

Base – RPO L17 2-stage; 2-barrel
 Optional – RPO L18 2-stage; 2-barrel

SAE Flange Size

Millimeters 31.75
 Inches 1.25

Throttle bore – mm (in.)

RPO L17 & L18
 Primary 32 (1.26)
 Secondary 36 (1.417)

Venturi Diameter

RPO L17 & L18
 Millimeters 31.75
 Inches 1.25

EXHAUST SYSTEM

TYPE Single exhaust with converter, and
 separate resonator with RPO L18 & RPO L17
 (Calif.)

MUFFLERS

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

	Dimensions	
	mm	In.
Head-aluminized steel	1.42	.056
Shell-aluminized steel	0.79	.031
Wrap-asbestos sheet	0.80	.032
Cover-aluminized steel	0.43	.017
Length-body	330.0	13.0
Height-L.D.	101.5	4.0
Width-L.D.	197.0	7.75

RESONATOR (RPO L17 (Calif.) & L18)

Type Bottle type
 Material Aluminized steel

EXHAUST PIPE TO CONVERTER

Material Aluminized steel tubing
 Dimension (O.D.) – mm (in.)
 RPO L17 44.45 (1.75)
 RPO L18 57.15 (2.25)

EXHAUST PIPE – CONVERTER TO MUFFLER

Dimension (O.D. wall thickness)
 Millimeters 50.8 x 1.83
 Inches 2.00 x .072

PIPE MUFFLER TO RESONATOR (RPO L18)

Dimension (O.D. wall thickness)
 Millimeters 44.45 x 1.83
 Inches 1.75 x .072

TAIL PIPE

Type Single
 Material Aluminized steel tubing
 Dimensions (O.D. x wall thickness)
 Millimeters 44.45 x 1.83
 Inches 1.75 x .072

EMISSION CONTROL EQUIPMENT

SYSTEM APPLICATION

SYSTEM TYPE	Engine Adaptation		
	1.6L (RPO L17)		1.6L (RPO L18)
	Federal	Calif.	Federal
COA - Carburetor Outside Air	X	X	X
C4 - Computer Controlled Catalytic Converter	-	X	-
CHA - Carburetor Hot Air	X	X	X
P-EGR - Exhaust Pressure Modulated EGR	X	X	X
FEC - Fuel Evaporation Control	X	X	X
PCV - Positive Crankcase Ventilation	X	X	X
UFC - Under Floor Converter	X	-	X
PAI - Pulse Air Injection	X	X	X
E-EFE - Electric - Early Fuel Evaporation	X	X	X

BASIC FUNCTION OF SYSTEMS

CARBURETOR OUTSIDE AIR

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

COMPUTER CONTROLLED CATALYTIC CONVERTER

A system designed to monitor engine functions and through an on-board computer, combine precise electronic carburetor control of fuel-air ratio near the stoichiometric with an oxidation-reduction catalytic converter to control emissions. This system achieves low levels of hydrocarbons and carbon monoxide emissions while significantly lowering oxides of nitrogen.

CARBURETOR HOT AIR

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

EXHAUST PRESSURE MODULATED EGR

Meter exhaust gas into induction system for recirculation throughout the combustion cycle to reduce oxides of nitrogen emissions. Exhaust pressure modulation in addition to vacuum modulation to increase control perimeters.

FUEL EVAPORATION CONTROL

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 and carburetor float bowl to storage, and finally, to the carburetor for utilization in running the engine.

POSITIVE CRANKCASE VENTILATION

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

UNDERFLOOR CATALYTIC CONVERTER

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

PULSE AIR INJECTION

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

ELECTRIC-EARLY FUEL EVAPORATION

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

LUBRICATION AND COOLING SYSTEM

LUBRICATION SYSTEM

GENERAL

Type	Controlled full pressure
Main Bearings	Pressure
Piston Pins	Splash
Cylinder walls	Splash
Camshaft bearings	Pressure
Tappets	Pressure
Connecting Rods	Pressure
Oil pressure sending unit	Electric
Oil Filler	
Cap	Positive Seal
Location	Right hand center at rocker cover

OIL PUMP

Type	Gear driven by distributor shaft outside gear;
Regulator Valve (opens between)	
Newtons	177.92-200.16
Pounds	40-45
Oil Pressure @ 2000 Engine RPM	
Kilopascals	379
Pounds/square inch	55

OIL FILTER

Type	Full flow throwaway type
Location	Lower front-left side
Capacity	0.275 litres (.292 qts.)
By pass valve	Opens between 10-12 PSI (68.9-82.7 kPa) drop in pressure

LUBRICANT GRADES AND TEMPERATURES

-6.6°C and Above (20°F and Above)	10W30, 10W40, 20W-20, 20W-40, 20W-50
-17.7° to 15.5°C (0 to 60°F)	10W, 5W-30, 10W-30, 10W-40
Below -6.6°F (Below 20°F)	5W-20, 5W-30

OIL PAN

Capacity	
Refill	3.8 litres (4.0 qts.)
Refill with filter change	4.075 litres (4.292 qts.)
Type of drain plug	Hex head
Drain plug location	Right side bottom rear of pan

COOLING SYSTEM

GENERAL

Type	Pressure, vented thru coolant recovery system
Capacity	
Manual Transmission	8.66 litres (9.2 qts.)
Automatic Transmission	8.76 (9.3 qts.)

RADIATOR

Type	Tube and center; cross flow
Distance between fins	
Manual or Auto.	
Base	4.06 mm (.16 in.)
A/C or H.D.	4.06 mm (.16 in.)
A/C & H.D.	3.56 mm (.14 in.)
Distance between tubes	14.0 mm (.55 in.)
Core thickness	31.5 mm (1.24 in.)
Front area	
Base	1142 cm ² (177 in. ²)
A/C	1600 cm ² (248 in. ²)
H.D.	1600 cm ² (248 in. ²)
Radiator cap relief valve	Opens at approximately 103.4 kPa

THERMOSTAT

Type	Pellet
Begins to open	86-90°C (187-194°F)
Fully opened	104.3°C (227°F)

RADIATOR HOSE

Outlet, Lower (Radiator to Water Pump)	
Type	One, molded
Inside diameter	44.4 mm (1.75 in.)
Inlet, Upper (Thermostat Housing)	
Type	One, molded
Inside diameter	31.8 mm (1.25 in.)

FAN

Number of Blades	4, staggered
Material	Plastic
Diameter	330.0 mm (13 in.)

WATER PUMP

Type	Centrifugal, die cast aluminum housing
Capacity @ 2000 Engine RPM	
Litres per minute	47.7
Gallons per minute	12.6
Drive	Fan belt

DRAIN LOCATIONS

Engine block	Plug; right rear of block
Radiator-Petcock	Lower, right bottom face

ELECTRICAL SYSTEM

SUPPLY SYSTEM

BATTERY

Type Freedom side terminal
 Voltage Rating & Watts
 With 4-Speed Manual Transmission 12:2500
 With Automatic Transmission 12:3200
 Cold Cranking Rating (Reserve Capacity)
 2500 Watt 60 minute
 3200 Watt 80 minute
 Terminal Grounded Negative
 Location R.H. front side of engine compartment

ALTERNATOR

Type Diode rectified with integral regulator
 Rating
 Amps 32
 Volts 12
 Drive By fan belt
 Pulley Pitch Diameter 61.7 mm (2.43 in.)
 Ratio (Gen. to Engine Speed) 2.73:1

REGULATOR

Type Micro-circuit unit, integral with alternator
 Voltage Regulator
 Voltage 13.8-14.8 @ 29.4°C (85°F)

IGNITION SYSTEM

DISTRIBUTORS Refer to chart below

STARTING SYSTEM

STARTING MOTOR

Rotation (Drive End View) Clockwise
 Test Conditions Engine at operating temperature
 No Load Test
 Amps 58-80
 Volts 10.6
 RPM 6750-10500
 Motor Drive
 Engagement Solenoid
 Pinion Meshes at Rear
 Pinion Tooth No. 9
 Flywheel Tooth No. 153
 Mounting Bolted to clutch housing

COIL

Type Mounted on case
 Amperes Drawn
 Engine Stopped25
 Engine Idling15

SPARK PLUGS

Make & Type R42TS
 Thread Size (mm) 14
 Gap 0.89 mm (.035 in.)
 Torque 9-20 N-m (7-15 lb. ft.)

CABLE Fiberglass core impregnated with electrical conducting material and insulation of rubber

DISTRIBUTORS	1.6 Liter L-4 RPO L17			1.6 Liter L-4 RPO L18	
	Model	1110789	1110795	1110794	1110788
Type	High Energy Ignition (H.E.I.)				
Centrifugal Advance begins @ RPM	0 @ 1200		0 @ 1520	0 @ 1520	0 @ 1200
Max. Degrees @ RPM	24 @ 5700		16 @ 5250	16 @ 5250	24 @ 5700
Vacuum Advance begins @ kPa	0 @ 10	0 @ 10	0 @ 10	0 @ 13.5	0 @ 10
Max. degrees @ kPa	20 @ 25.3	25 @ 34	20 @ 34	14 @ 27	20 @ 25.3
Timing (Initial design setting) Crankshaft deg. @ RPM (w/vacuum line disconnected)	12° BTC - Manual trans. 16° BTC - Auto. trans. (18° BTC) - Auto. trans.			12° BTC - Manual trans. 18° BTC - Auto. trans.	
Timing Mark Location	Crankshaft pulley				

Data in brackets () pertains to California.

CLUTCHES AND TRANSMISSIONS

CLUTCHES

Engine		1.6 Litre L-4		
Clutch for		4-Speed		
Type		Single dry disc centrifugal		
Clutch cover & pressure plate	Eff. plate load	399.2 kg (880 lbs.)		
	Press. plate matl.	Cast alloy iron		
	Clutch spring type	Diaphragm, bent finger design		
	Clutch spring matl.	Heat treated spring steel		
Driven plate	Type	Single disc with two friction surfaces		
	Cushions	Flat spring steel between friction rings		
	Dampers	4 coil springs		
	Friction rings	OD	180.01 mm (7.087 in.)	
		ID	130.99 mm (5.157 in.)	
		Total area	239.5 cm ² (37.12 in ²)	
Material		Woven type asbestos		
Flywheel	Flywheel	Material	Nodular iron	
		Material	Heat treated HR steel	
	Ring gear	No. of teeth	142	
		PD	300 mm (11.81 in.)	
		Attachment	Shrink fit	
Bearings	Release	Type	Single row ball	
		Lubrication	None, prepacked	
	Pilot	Type	Bronze bushing	
		Lubrication	None, sintered and oil impregnated	
Controls	Clutch fork		Drop forged steel, pivot mounted on ball	
	Pedal mounting		Pendant, from brace on dash	
	Lubrication		Crossover shaft	
Clutch housing material		Aluminum alloy		

4-SPEED TRANSMISSION

Transmission Type		4-Speed		
Case material		Aluminum		
Gear Shift	Type	Remote		
	Control	Lever		
	Location	Floor console, mounted between seats		
Gears	Type	Helical		
	Material	Forged steel, hardened		
	Synchronization	All forward gears		
	Constant mesh gear	All forward gears		
	Sliding gears	Reverse		
	Ratios	First	3.75	
		Second	2.16	
		Third	1.38	
Fourth		1.00		
Reverse		3.82		
Lubricant	Type	GL-5 Gear lubricant (80W or 80W-90)		
	Capacity	1.7 litres (3 pints)		
Extension	Material	Aluminum		
	Oil Seal	Steel encased seal of spring loaded silicone		

TRANSMISSIONS

THREE-SPEED AUTOMATIC TRANSMISSION

Parameter		'180'	'200'	
General Data	Type	Automatic hydraulic torque converter with compound planetary gear system - three forward speeds and reverse.		
	Selector Lever	Location	Floor tunnel (a)	
		Operation	Actuates controls by a hydraulic system from pressurized gear type pump	
		Quadrant pattern	P-R-N-D-L2-L1	
	Parking Lock	Type	Locking pawl	
		Operation	Applied by selector lever through manual linkage	
	Method of cooling	Water		
Flywheel assembly	Steel stamping with welded on ring gear			
Hydraulic System	Oil pressure pump	Supplies hydraulic pressure from an engine driven gear type pump		
	Type	Steel spool valve		
	Valves	Manual	Establishes range at transmission operation	
		Pressure regulator	Provides main line pressure	
		Shift (1-2)	Controls oil pressure for transmission shift from 1-2 or 2-1	
		Shift (2-3)	Controls oil pressure for transmission shift from 2-3 or 3-2	
	Pressure modulated by mechanical throttle linkage	Regulates line pressure with modulator oil pressure which varies with torque to transmission		
	Accumulator	Provides greater flexibility in attaining desired shift quality for various engine requirements		
	Pressure @ Idle (b)	Drive	40-60	
		L2	85-105	
L1		85-105		
Reverse		90-110		
Converter Assembly	Pump (Drive member)	Multivane type, sheet metal blade spot welded to steel pump housing that is an integral part of the converter housing		
	Turbine (Driven member)	Steel axial flow blades assembled between inner & outer steel shells		
	Stator assembly	Aluminum multivane type blades mounted on a one way (overrunning) roller clutch		
	Stall ratio	2.2	2.0	
	Stall speed (RPM)	2350		
	Diameter (nominal)	228.6 mm (9.0 in.)		
Planetary Gear Set	Reaction carrier assembly	2 steel pinion gears		
	Output carrier assembly	2 steel pinion gears		
	Intermediate band	Circular steel with organic lining		
	Range	D (Drive)	2.40 - 1.48 - 1.00	2.74 - 1.57 - 1.00
		L2 (Low two)	2.40 - 1.48	2.74 - 1.57
		L1 (Low one)	2.40	2.74
		R (Reverse)	1.92	2.07
Servo Unit	Piston with release spring and inner cushion spring			
Case	Material	Aluminum		
Clutches	Type	Thrc, multiple disk		
	Material	Drive plates	Steel with bonded organic facings	
		Driven plates	Flat steel	
	Forward clutch	3 each drive & driven plates		
	Direct clutch	3 each drive & driven plates		
	Low & Reverse clutch	4 each drive & 3 driven plates		
Release spring	Radial row steel coil			
Torque Multiplication	Drive (maximum)	5.28:1 - 1.00:1	5.48:1 - 1.00:1	
	Low 2	5.28:1 - 1.48:1	5.48:1 - 1.57:1	
	Low 1	5.28:1 - 2.40:1	5.48:1 - 2.74:1	
	Reverse	4.22:1 - 1.92:1	4.14:1 - 2.07:1	
Governor	Type	Cross-axis centrifugal		
	Operation	Regulates a pressure proportional to car speed which acts upon the (1-2) (2-3) shift and modulator valves		
Lubricant	Type	Dexron II		
	Capacity	Dry	7.39 litres (13 pints)	
Refill		3.98 litres (7 pints)		

(a) Floor mounted mini-console available with automatic transmission option.

(b) Conditions 600 RPM input.



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2
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