

# Specifications Form Passenger Car

1983

METRIC (U.S. Customary)

Manufacturer	Car Line	
PONTIAC MOTOR DIVISION GENERAL MOTORS CORPORATION	1000	
Mailing Address	Model Year	Issued:
ONE PONTIAC PLAZA	1983	10-15-82
PONTIAC, MICHIGAN 48053		Revised (*)

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

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### NOTE:

- This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
- 2. UNLESS OTHERWISE INDICATED:
  - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
  - b. Nominal design dimensions are used throughout these specifications.
  - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
- The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
- Additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

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### Car Models

Model Description	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Truck/Cargo Load – Kilograms (Pounds)
2-DOOR HATCHBACK COUPE 1000	9-23-82	2TL08	4 (2/2)	
-DOOR HATCHBACK SEDAN 1000	9-23-82	2TL68	4 (2/2)	

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### 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.

	ENGINE							
SERIES	Displ. Carb. SAE Net at RPM			AXLE RATIO				
AVAILABILITY	Liters (in <sup>3</sup> )	(Barrels, Fl. etc.)	Compr. Ratio	kW (bhp)	Torque N - m (ib. ft.)	Exhaust System*	TRANSMISSION	(std. first) (indicate A/C ratio)
49 States							<u>:</u>	• • <u>-</u>
Standard	L17 1.6	2-вь1.	9	49@ 5200	109@ 3200	s	4M	3.36
				(65@ 5200)	(180@ 3200)			3.62 A/C
							5M Opt.	3.62 Opt.
				· ·		ļ		3.36 Opt. (1)
Optional	LJ5 1.8	F.I.	22	38@ 5000	98@ 2000	S	5M	3.36
	(Diesel)			(51@ 3200)	(72@ 2000)		3A - 180C Opt.	3.62 Opt.
California Only	:							
Standard	L17	2-Въ1.	9	49@	109@	s	4M	3.62
	1.6			5200	3200		3A - 180C Opt.	3.36
						,		3.62 Opt.
Optional	LJ 5	FI	22	38@	98@	s	5M	3.36 (2)
	1.8 Diesel			5000	2000	<u> </u>	3A - 200C Opt.	3.36 (2)
<u></u>		;						3.62 (2)
(1) A/C and F	ower Steer	ing Not	: Avai	lable - 1	Ruel Eco	nomy Le	ader	
							•	

<sup>\*</sup> S-Single D-Dual

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Engine Description/Carb. Engine Code

1.6L L4 (98 CID)	1.8L L4 (111 CID)
2-BBL. CARBURETOR	FUEL INJECTION (DIESEL)
RPO L17	RPO LJ5

### ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, etc.)		OHC, In-Line Front	
	,	Longitudinal	
No. of cylinders		4	
Bore		82 (3.23)	84 (3131)
Stroke		75.7 (2.98)	82 (3.23)
Bore spacing (c/I to	:/1)	93.0 (3.7)	99.5 (3.0)
Cylinder block mater	al	Cast Alloy Iron	
Cylinder block deck	height	198 (7.8)	218.5 (8.6)
Deck clearance (minimum) (above or below block)		Zero	
Cylinder head material		Cast Alloy Iron	
Cylinder head volume	(cm <sup>3</sup> )		
Head gasket thicknes (compressed)	38	.95 (.037)	1.40 (0.055)
Minimum combustion chamber volume (cm		42.7	19.48
Cyl. no. system	L. Bank	1-2-3-4	
(front to rear)*	R. Bank		
Firing order		1-3-4-2	
Recommended fuel (leaded, unleaded, diesel)		Unleaded	Diesel #2
Fuel antiknock index (R + M)			
2 .	· .	87	
Total dressed engine	mass (wt) dry**	144.1 (317.7)	172 (379.3)

#### Engine - Pistons

Material	Cast Aluminum Alloy		
Mass, g (weight, oz.) — Piston Only	364 (12.84)	540 (19.05)	

### Engine - Camshaft

Location		In Cylinder Head		
Material (kg., weight, lbs.)		Cast Alloy Iron		
Mass (kg., weight, I	bs.)	2.946 (6.49)	2.100 (4.63)	
Type of drive (chain or belt)	Width	19 (.748)	30 (1.181)	
	Pitch	9.5 (.375)	9.525 (0.375)	

<sup>\*</sup> Rear of engine — drive takeoff. View from drive takeoff end to determine left à right side of engine.

All those items necessary to make the engine a complete ready-to-run unit.

<sup>\*\*</sup> Dressed engine mass (weight) includes the following:

		•	•
Engine Description/Carb. Engine Code		1.6L L4 (98 CID) 2-BBL. CARBURETOR RPO L17	1.8L L4 (111 CID) FUEL INJECTION (DIESEL) RPO LJ5
Engine — V	/alve System		
	Hydraulic	Hydraulic Valve Lash Adjusters	Mechanical Valve Lash Ad
Lifters (std., op	Solid		•
Engine - C	connecting Rods		
Digito 0	John German, House	.354 (0.78)	.730 (1.61)
Material & mas	a (kg., weight, lbs.)	Forged Steel 1141	Forged Alloy Steel
Engine — C	Crankshaft		
Material (kg., w	eight, (bs.)	Nodular Cast Iron	Forged Steel, Softnitrided
Mass (kg., weight, lbs.)		12.474 (27.50)	14.500 (32.00)
End thrust take	en by bearing (no.)	5	3
Engine – L	ubrication System		
	ssure [kPa (psi) at engine rpm]	397 (57) @ 1200	441 (64) @ 5000
Type oil intake	(floating, stationary)	Stationary	
Oil filter system	n (ful) flow, part, other)	Full Flow	
Capacity of c/case, less filter-refill-L (qt.)		3.8 (4.0)	4.7 (5.0)
Engine — D	Diesel Information		•
	rent drain at O'F		*
Injector Type Copening pressure (kPa (psi))		Not	Pintle
		Available	11760 (1707)
Pre-chamber d	lesign		Ricardo Comet V
	Aanufacturer		Diesel Kiki
injection pump T	уре	·	Bosch VE
Supplementary	vacuum source (type)		Generator Driven

<sup>(\*) 180</sup> Amps Decreasing to 50 Amps as Flow Plugs Heat Up.

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Engine	Code

1.6L L4 (98 CID)	1.8L L4 (111 CID)
2-BBL. CARBURETOR	FUEL INJECTION (DIESEL)
RPO L17	RPO LJ5

Induction type: carburetor, fuel injection system, etc.			Carburetor	Fuel Injection
	Mfgr.		Holley	
	Choke (type)		Electric	None
Carbure-	Idle sod,-rpm	Manual	800 &700 with 3.36:1 Axle)	
or	(spec. neutral			
	or drive and propane	Automatic	700 .	
	if used)			
dle A/F mix	х.			
	Point of injection	on (no.)		
Fuel	Constant, pulse	, flow		Head, 4
njection	Control (electro	onic, mech.)		Pulse
	System pressu	re [kPa (psi)]		Mechanica1
	ifold heat control		Exhaust	
or water) th	ermostatic or fixe	ed	Replaceable Paper Element,	None
Air cleaner	Standard		Single Snorkel	Remote Paper Element
ype	Optional		<b></b>	
	Type (elec. or n	nech.)	Mechanical	Engine Mounted - Integral
Fuel pump	Location (eng.,	tank)	Lower LF	with Injection Pump
pup	Pressure range [kPa (psi)]		34-45 (5.0-6.5)	
Capacity (r	efill L (gallons)]	<u> </u>	47.3 (12.5) Approximately	
Location (c	efill L (gallons)] lescribe)	<u> </u>	47.3 (12.5) Approximately	
Capacity (ro Location (d Attachmen	efill L (gallons)] lescribe) t			
Capacity (re Location (d Attachment Material	efill L (gallons)] describe) t			
Capacity (ro Location (d Attachmen Material Filler	efili L (gallons)] describe) t Location & mat			
Capacity (ri Location (d Attachment Material Filler pipe	efilt L (gallons)] describe) t  Location & mat Connection to			
Capacity (n Location (o Attachmen Materia) Filler pipe	efilt L (gallons)] lescribe) t  Location & mat Connection to naterial)			
Capacity (n Location (d Attachmen Materia) Filler pipe Fuel line (n Fuel hose (	efilt L (gallonsi) lescribe) t  Location & mat Connection to naterial) (material)			
Capacity (n Location (d Attachmen Materia) Filler pipe Fuel line (n Fuel hose (	efill L (gallons)] describe) t  Location & mat Connection to material) (material)			
Capacity (n Location (d Attachmen Materia) Filler pipe Fuel line (n Fuel hose ( Return line	efill L (gallonsi) describe) t  Location & mat Connection to material) (material) (material)			
Capacity (n Location (d Attachmen Material Filler pipe Fuel line (n Fuel hose ( Return line	Location & material) (material) (material) (material) (material) (continuation of the continuation of the	tank		
Capacity (no Location (de Attachmen Materia) Filler pipe Fuel line (no Fuel hose (de Return line Mapor line Extended	Location & mail Connection to material) (material) (material) (material) Opt., n.a. Capacity [L (gallons)]	tank	Left Rear Quarter Panel	
Capacity (r. Location (c. Attachmen Material Filler pipe Fuel line (n. Fuel hose ( Return line Vapor line Extended range	Location & material) (material) (material) (material) (material) (continuation of the continuation of the	tank		
Capacity (r. Location (c. Attachmen Material Filler pipe Fuel line (n. Fuel hose ( Return line Vapor line Extended range	Location & mail Connection to material) (material) (material) (material) (material) Copt n.a. Capacity (L. (gallons)) Attachment	tank	Left Rear Quarter Panel	
Capacity [r. Location (c Attachmen Material Filler pipe Fuel line (n Fuel hose ( Return line Vapor line Extended range	efilit L (gallonsi) describe) t  Location & mai Connection to naterial) (material) (material) (material) Opt., n.a. Capacity (L (gallonsi) Attachment Opt., n.a.	tank silons)] terial	Left Rear Quarter Panel	
Capacity (n. Location (d. Attachment Material) Filler pipe Fuel line (n. Fuel hose (d. Return line) Vapor line Extended range tank	efilt L (gallons)] describe) t  Location & mail Connection to naterial) (material) (material) (material) (material) Copt., n.a. Capacity (L (gallons)) Attachment Opt., n.a. Capacity (L (gallons))	tank  silons)  terial  allons)	Left Rear Quarter Panel	
Capacity (ro Location (d Attachmen	efilt L (gallons)] describe) t  Location & mat Connection to naterial) (material) (material) (material)  Opt. n.a. Capacity (L (gallons))  Capacity (L (gallons))  Capacity (L (gallons))	tank  silons)  terial  allons)	Left Rear Quarter Panel	
Capacity [n Location (c Attachmen Materia) Filler pipe Fuel line (n Fuel hose ( Return line Vapor line Extended range tank Auxiliary	efilt L (gallonsi) lescribe) t  Location & mat Connection to naterial) (material) (material) (material)  Opt. n.a. Capacity [L (gallonsi) Location & material Location & material Location & material Location & material	tank allons)] terial allons)]	Left Rear Quarter Panel	
Capacity [n Location (c Attachmen Materia) Filler pipe Fuel line (n Fuel hose ( Return line Vapor line Extended range tank Auxiliary	efilt L (gallons)] describe) t  Location & mat Connection to naterial) (material) (material) (material)  Opt. n.a. Capacity (L (gallons))  Capacity (L (gallons))  Capacity (L (gallons))	tank allons)] terial allons)]	Left Rear Quarter Panel	

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Engine Description/Carb. Engine Code

1.6L L4 (98 CID)	1.8L L4 (111 CID)
2-BBL. CARBURETOR	FUEL INJECTION (DIESEL)
RPO L17	RPO LJ5

Coolent recovery system (std., opt., n.a.)		m (std., opt., n.a.)	Standard	<u> </u>
Coolant fill I	ocation (ra	d., bottle)		
Radiator cap relief valve pressure [kPa (pail)]		e pressure [kPa (pai)]	103.4 (15.0)	
Circula-		ke, bypass)	Choke	
tion thermostat	Starts to	open at *C (*F)	88 (190)	82 (180)
<del>  </del>	Type (cer	trifugal, other)	Centrifugal	
h		O pump rpm		
Nater	Number o		One	
nuut	Drive (V-b	elt, other)	V-Belt	
ł	Bearing (		Double Row Ball	
By-nass rec		type (inter., ext.)] .	Internal	External
			Internat	External
		oss-flow vertical ther) and material]	Cross Flow	
cooling -	With heat	er—L(qt.)	8.51 (9) AT;8.55(9.04) MT	8.46(8.94)AT;8.55(9.04)MT
ystem		oṇd.—L(qt.)	8.67 (9.16)AT;8.76(9.26)MT	
apacity	Opt. equip	ment (specify-L(qt.))	8.67 (9.16)AT; 8.76(9.26)MT H.D. Rad.	
Vater jackel	s full lengi	th of cyl. (yes, no)	Yes	
Vater all arc	und cyline	ler (yes. no)	Yes	
		Width	304.8 (12.0)	430.0 (16.9)
	<b>-</b>	Height	375.2 (14.8)	387.5 (15.25)
	Standard	Thickness	31.5 (1.24)	25.0 (.98)
1		Fins per inch	6.2	7,26
		Width	426.7 (16.8)	
tediator ore		Height	375.2 (14.8)	
	A/C	Thickness	31.5 (1.24)	
'		Finsiper inch	5.5	
		Width	426.7 (16.8)	
	Heavy	Height	375.2 (14.8)	
	duty	Thickness	31.5 (1.24)	
		Fins:per inch	7.06	
-		il blades & type d. material)	4, Staggered	7, Plastic Blades,Fan Clut
ŀ		& projected width	330 (13.0)	390 (15.35)
Fan		to crankshaft rev.)	1.07	1.11
atendard)	Fan cutou		None	Clutch, Thermo-Modulated
				Crucch, Thermo-Modulated
		e (direct, remote))	V-Belt - One	
		ud (material) & projected width		
		<del></del>		
	RPM at id			
en Bloctric)		ing (wattage)		
	Motor switch (type & location)			
		oint (temp, pressure)		
		ud (material)	17 Charana 3	Nana
		des and spacing	7, Staggered	None
Fen		& projected width	360 (14.17)	<del></del>
(optional)		to crankshaft rev.)		<del></del>
	Fan cut-o	out (type)	Clutch, Thermo-Modulated	
	Drive (tvo	e. direct, remotel	V-Belt, One	

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Engine	Description/Carb.
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1.6L L4 (98 CID)
2-BBL. CARBURETOR
RPO L17

1.8L L4 (111 CID)
FUEL INJECTION (DIESEL)
RPO LJ5

	Type (air injection, engine modifications, other)			Computer Command Control With Air Injection	None
		Pum	p (type)	Vane	None
		Driven by		V-Belt_	
	Air Injection		listribution d. manifold, etc.)	Converter	***
		Point of entry			
xhaust		Туре ореп	(controlled flow, orifice, other)	Controlled Flow	None
Emission Control	Exhaust Gas	Exha	ust source	Manifold	none
	Recircula- tion	(spac	t of exhaust injection cer, carburetor, fold, other)	Inlet Manifold	
		Туре		Dual Bed, Oxidizing &	None
		Number of		One Reducing	
-	Catalytic Converter	Location(s)		Beneath RF Underbody	
	Converter	Volume (L (in3))		2.782 (170)	
		Substrate type		Monolith	
	Type (ventilates to atmosphere, induction system, other)			Induction System	
rankcase mission	Energy source (manifold vacuum, carburetor, other)		enifold or, other)	Manifold Vacuum	None
Control	Discharges (to intake manifold, other)		ake	Inlet Manifold	
•	Air inlet (breather cap, other)		cap, other)	Carburetor Air Cleaner	
	Vapor vente (crankcase		Fuel tank	Canister	
Evapora- tive Emission Control	canister, other)		Carburetor	Canister	
	Vapor Storage provision (crankcase, canister, other)		ter, other)	Canister	

### Engine - Exhaust System

Type (single, single with cross-over, dual, other)  Muffler no. & type (reverse flow, straight thru, separate resonator)		Single	
		One, Reverse Flow	Not Available
Resonator	no. & type	Not Available	One, Straight Thru
F	Branch oid., wall thickness		
Exhaust pipe	Main o.d., wall thickness	44.45x.81 (1.75x0.32)	50.8x1.83(2.0x.072)
	Material	(1)	Aluminum Coated Steel
nter- nediate	od. & wall thickness	50.8x1.83(2.0x.072)	
Dibe	Materia?	Aluminum Coated Steel	
Tail pipe	o.d. & wall thickness	44.45x1.83(1.75x.072)	
	Material	Aluminum Coated Steel	

<sup>(1)</sup> Laminated Tubing - Steel Inner, Stainless Steel Outer.

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Engine Description/Carb. Engine Code		1.6L L4 (98 CID)	1.8L L4 (111 CID)
		2-BBL. CARBURETOR	FUEL INJECTION (DIESEL)
		RPO L17	RPO LJ5
Electrica	I — Supply System		
	Voltage rtg. (V & total plates)	12 Volt	
	Minimum reserve cranking	60 min (MT), 70 min (AT) @	115 minutes
Battery	SAE capacity (amps)	310 (MT)-Base, 390 (MT)-HD 355 (AT)-Base, 390 (AT)-HD	550
	Location	Engine Compartment, R.F.	Engine Compartment, L.F.
Generator	Type and rating	42 Amps	50 Amps
or	Ratio (alt. crank/rev.)		1.75
aitemator	Optional (type & rating)	·	
Regulator	Туре	Micro Circuit; Integral	Integrated Circuit
Electrica	I — Starting System		
Start. motor	Current drain at 0"F		
	Engagement type	Positive Shift Solenoid	
Motor drive	Pinion engages from (front, rear)	Rear	

@ 90 Minutes with H.D. Battery

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Cigina Canculation Card.	.8L L4 (111 CID) JEL INJECTION (DIESEL) RPO LJ5	
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Electrical	_	Ignition	System

	Convention	al (std., opt. n.s.)	Not Available	
Туре	Transistoria	zed (std., opt., n.a.)	<del></del>	
	Other (spe	cify)	High Energy Ignition (HEI)	
	Make		Delco Remy	Not
C-:1	Model		1115454	
Coil	Current	Engine stopped — A		Applicable
	00114111	Engine idling — A,		
	Make		AC	
	Model		R42TS	
Spark Dlug	Thread (mr	n)	M14x1.25	
, ug	Tightening	torque (N-m (lb., ft.))	9-20 (7-15)	
٠	Gap	,	0.889 (.035)	
	Make		Delco Remy	
Distributor	Model		1103506	

#### Electrical - Suppression

Internal alternator capacitor, non-metallic high-tension cables, resistor spark plugs, ignition coil by-pass capacitor, internal AC blower motor Locations & type by-pass capacitor & A/C compression diode, with radio provisions; hood grounding clip, engine to dash panel ground strap, fuse block capacitor and on "heater only" blower motors and coax capacitor.

Electrical - Instruments and Equipment

Speed-	Type	Circular Dial With Pointer
ometer	Trip odometer (std., opt., n.a.)	Not Available
EGR mainten	ance indicator	None
Charge	Туре	Tell-Tale Warning Light
ndicator	Warning device	None
Temperature	Туре	Tell-Tale Warning Light
ndicator	Warning device	None
Oil pressure	Туре	Tell-Tale Warning Light
indicator	Warning device	None
Fuel	Туре	Electric Gage
indicator	Warning device	None
	Type (standard)	Electric 2-Speed
Wind- shield	Type (optional)	None
wiper	Blade length	403.4 (15.9 in.)
	Swept area (cm <sup>2</sup> (in. <sup>2</sup> ))	3951 (612.5 in <sup>2</sup> )
Wind-	Type (standard)	Electric Push-Button
shield	Type (optional)	None
washer	Fluid level indicator	None
Hom	Туре	Electric Vibrator
HUIII	Number used	One
Other		Parking Brake Warning Light and Brake Failure Warning Light, Restraint System Warning Light and Buzzer.

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Engine Description/Carb. Engine Code

1.6L L4	(98	CID)
2-BBL. C	ARBU	JRETOR
PPO T1	7	

1.8L L4 (111 CID) FUEL INJECTION (DIESEL) RPO LJ5

ı	T	Ð١	181	ПΙ	55	1OU	Þ

Manual 3-speed (std., opt., n.a.)	Not Available		
Manual 4-speed (std., opt., n.a.)	Base	Not Available	
Manual 5-speed (std., opt., n.a.)	Optional	Base	<u>-</u> .
Manual overdrive (std., opt., n.a.)	Included with 5-Speed	Transmission	
Automatic (std., opt., n.a.)	Optional (with Conver	ter Clutch)	
Automatic overdrive (std., opt., n.a.)	Not Available		

#### **Manual Transmission**

orward speed	is	4	5	5	
In, first		3.75	3.76	3.76	
In second		2.16	2.18	2.18	-
In third		1.38	1.36	1.42	
In fourth		1.00	1.00	1.00	
In fifth			.86	.86	
In overdrive		<del>-</del>			
in reverse		3.82 3.	3.76	3.76 3.76	
s meshing (so	pecify gears)	All Forward Gear	'S		
cation		Floor Mounted	·····		
Capacity [L	(pt.)]	1.6 (3.4)		1.55 (3.3)	
Type recom	mended	GL-5 Gear Lubric	ant		
Summer		80W or 80W-90		SAE 5W-30SF	
COSITY	Winter	80W or 80W-90		SAE 5W-30SF	
number	Extreme cold	80W or 80W-90		SAE 5W-30SF	
	In first In second In third In fourth In fifth In overdrive In reverse In meshing (second) Capacity (L Type recom) SAE viscosity	In second In third In fourth In fifth In overdrive In reverse In meshing (specify gears) Indiana Capacity [L (pt.i)] Type recommended SAE viscosity Winter	In first   3.75     In second   2.16     In third   1.38     In fourth   1.00     In fifth	In first	In, first   3.75   3.76   3.76

#### Clutch (Manual Transmission)

Clutch (N	fanual Transmission)		
Maka 8 Awa	•	(1) Borg & Beck, Dry	Daikin, Dry
Make & type	•	Single Plate	Single Plate
Type pressu	ure plate springs	Diaphragm	Diaphragm
Total spring load [N (lb.)]		4182 (940) (2)	3234 (727)
No. of clutc	h driven discs	One	
	Material	Molded Type Asbestos	Special Woven N13
	Manufacturer	Borg & Beck (3)	Hitachi Kasel
	Part number	14032337 (4-Speed) (4)	94241951
	Řívets/plate	16 (5)	
Clutch	Rivet size	3.63x5.41 (.143x.213)	4.0 (0.157)
facing	Outside & inside dia.	180x131 (8.0x6.0)	180x131 (8.0x5.16)
	Total eff. area (cm2(in.2))	142 (22.0)	362.9
	Thickness	8.128 (.320)	3.5 (.138)
	Engagement cushion method	Flat Spring Steel Between Fa	acinos
Calacas		Fiat Spring Steel Between re	2021120
Release bearing	Type & method of lubrication	Single Row Ball, Packed & Sea	aled Angular Contact Ball Bearings
Torsional	Method: springs,		Packed and Sealed
damping	friction material	Coil Springs	

- (1) Luc, Inc., Dry Single Plate for 5-Speed
- (4) 14061690 for 5-Speed

(2) 5512 (1240) for 5-Speed

(5) 18 for 5-Speed

- (3) Luc, Inc., for 5-Speed
- bed (1) to for 3-speed

1000 Issued 10-15-82 Revised (\*)\_ 1983 Model Year\_\_

Engine	Description/Carb.
Engine	Code

1.6L L4 (98 CID)	1.8L L4 (111 CID)
2-BBL. CARBURETOR	FUEL INJECTION (DIESEL)
RPO L17	RPO LJ5

Trade name Type (describe)		3-Speed Automatic  Torque Converter with Planetary Gears			
					0-11-
Selector	Ltr./No. designation	P-R-N-D-2-1			
	R	1.92	2,07		
	D	1.00	1.00		
Gear ratios	L <sub>3</sub>	1.48	1,57		
•	L <sub>2</sub>	2.40	2.74		
	Lt				
Max. upshif	t speed - drive range [km/h (mph)]				
Max. kickde	own speed - drive range (km/h (mph)	1			
Min. overdr	ive speed (km/h (mph))				
	Number of elements	3			
Torque	Max. ratio at stall	2.25			
converter	Type of cooling (air, liquid)	Liquid			
	Nominal diameter	245 (9.65)			
	Capacity [refill L (pt.)]	2.8 (6.0)			
Lubricant	Type recommended	Dexron II			
Special trai	nsmission .	Torque Converter Clu	tch, 3rd Gear Lock-Up		

A1		F	Wheel	Parison.	44-14
AXIO	OI	Pront	Wheel	DUAG	UNIX

Type (front, rear)			Rear	
Description			Semi-Floating with Hypoid Overhung Pinion Gear	
Limited slip differential (type)		(type)	Not Available	
Drive pinion	offset		28.4 (1.12)	
Drive pinion	(type)		Hypoid Gear	
No. of differential pinions		ıŝ	Two	
Pinion adjustment (shim, other)		ı, other)	Shims	
Pinion bearing adj. (shim, other)		n, other)	Collapsible Sleeve	
Driving wheel bearing (type)		lype)	Direct Single Row Ball	
	Capacity	(L (pt.))	0.8 (1.75)	
Lubricant SAE vis- cosity number	mmended	GL-5 Gear Lubricant		
	CAE via	Summer	80W or 80W-90	
	cosity	Winter	80W or 80W-90	
		Extreme cold	80W or 80W-90	

### Axie or Transaxie Ratio and Tooth Combinations (See "Power Teams" for axie ratio usage.)

Axle ratio d	or overall ratio (:1)	3.36, 3.62	
No. of	Pinion	10	
teeth	Ring gear or gear	37	<u>-</u>
Ring gear	o.d.	165 (6.50)	
	Transfer gear ratio	Not Available	
Transaxie	Final drive ratio	Not Available	

Car Line 1000

Model Year 1983 Issued 10-15-82 Revised (\*)

Engine Description/Carb. Engine Code

2-DOOR	4-DOOR
HATCHBACK COUPE	HATCHBACK SEDAN
RPO 2TL08	RPO 2TL68

### Propeller Shaft - Conventional Drive

	nt tube, tube-i rnal damper,			(a) (b)		
	Manual 3-speed trans  Manual 4-speed trans.  Manual 5-speed trans.		18	Not Available		
Outer			15.	50.8 x 7.31.5 x 1.40 (2.0 x 28.8 x .055)	50.8 x 808.2 x 1.40 (2.0 x 31.8 x .055)	
diam. x length" x wall thick-			15.	50.8 x 535.2 x 1.40 (20.0 x 21.1 x .055)	50.8 x 611.4 x 1.40 (2.0 x 24.1 x .055)	
ness	Overdrive			Not Available		
	Automatic transmission		ion	5.08 x 586.0 x 1.40 (2.0 x 23.1 x .055)	50.8 x 662.2 x 1.40 (2.0 x 26.1 x .055)	
Inter-	Type (plain anti-friction			Anti-Friction		
mediate bearing	Lubrication prepack)	(fitting,		Pre-Packed		
	Туре	Туре		Spline		
Slip yoke	Number of	teeth		27		
	Spline o.d.			28 (1.2)		
	Make and mfg, no. Front			Saginaw 23		
	Number us	ed		Two		
Universal	Type (ball and trunnion, cross)		ion, crass)	Cross		
joints	Rear attach (u-bott, clamp, etc.)		clamp, etc.)	U-Bolt		
	Bearing  Type (plain, anti-friction)  Lubric. (fitting, prepack)			Anti-Friction		
				Pre-Packed		
Drive taken arms or sprii	through (torqu ngs)	ie tube,		Control Arms		
Torque take arms or spri	n through (tor ngs)	que lube.		Torque Tube		

<sup>\*</sup> Centerline to centerline of universal joints, or to centerline of rear attachment.

<sup>(</sup>a) Straight tube attached to "U" joints to a solid steel pinion extension. A torque tube housing extension shaft is bolted.

<sup>(</sup>b) Tuned torsional damper used with automatic transmission and gasoline engines.

Car Line 1000

Model Year 1983 Issued 10-15-82 Revised (\*)

Engine Description/Carb. Engine Code			2-DOOR HATCHBACK COUPE RPO 2TL08	4-DOOR HATCHBACK SEDAN RPO 2TL68
Tires A	and Wheels (S	Standard)		
	Size (load range		P155/80R-13 (BW,WW)	
	Type (bias, radi	al, etc.)	Glass Belted Radial	
Tires	inflation pressure (cold) for	Front [kPa (psi)]	205 (30)	
	recommended max. vehicle load	Rear (kPa (psi))	205 (30)	·
	<del></del>	0 km/h (45 mph)	569 (916)	·
	Type & material		Short Yoke Disc, Steel	· .
	Rim (size & flan	ge type)	13 x 5	
Wheels	Wheel offset		37 mm	
		Type (bolf or stud)	Stud	· · · · · · · · · · · · · · · · · · ·
	Attachment	Circle diameter	100 mm	
		Number & size	4 Hex Nuts - M12x1.5	
Spare	Tire and wheel other describe)	(same, if	14 x 4 (49 mm); Compact T	'ire - T115/70D-14
	Storage position (describe)	& location	Flat Under Rear Load Floo	)r
Tires A	Ind Wheels (	Optional)		
Size (loa	id range, ply)		P175/70R-13 (BW.WW)	
Type (bi	as; radial, etc.)		Steel Belted Radial	
Wheel (t	ype & material)			<u> </u>
Rim (sizi	e. flange type and	d offset)		
Size (los	d range, ply)			
	as, radial, etc.)			·
	ype & material)	<u> </u>		
	é, flange type and	offset)		
	id range, ply)			
	as, radial, etc.)			
	ype & material)			
	e, flange type and	d offset)		
	id range, ply)			
	Type (bias, radial, etc.)			
	Wheel (type & material)			
Rim (size, flange type and offset)		i offset)		
(if co road optio	e and wheel nfiguration is diffi tire or wheel, des nat spare tire and ion & storage pos	cribe I/or wheel		
Brakes	s — Parking			
Type of			Grip Handle	
Location of control			One Floor Between Seats	
Operate	s on		Rear Service Brakes	<u> </u>
If sepa-		rnai or external)		
rate from	n Drum diam	neter		
service brakes	Lining size	e (length x		

**METRIC (U.S. Customary)** 

Car Line	1000		_
Model Year	1983	Issued 10-15-82 Revised (*)	_

Body Type And/Or Engine Displacement

2-DOOR	4-DOOR	
HATCHBACK COUPE	HATCHBACK SEDAN	
RPO 2TL08	RPO 2TL68	

#### Brakes - Service Description Disc Front (disc or drum) Brake type (std., opt., n.a.) Rear (disc or drum) Drum Standard Self-adjusting (std., opt., n.a.) Special Type (proportion, delay, metering, other) valving Proportioning Optional Power brake (std., opt., n.a.) Sooster type (remote, integral, vac., hyd., etc.) Integral Anti-skid device type (std., opt., n.a.) Not Available Effective area (cm2(in.2)) 514.9 (79.83) Gross tining area [cm2(in.2)] \*\* Swept area [cm2(in,2)] \*\*\* 1804.5 (279.77) 246 (9.68) Outer working diameter R F 143.8 (5.66) Inner working diameter R Rotor F 11 (.433)Thickness R Cast Iron, Solid Material & type (vented/solid) R F Diameter (nominal) 200 (7.87) Drum Type and material Duo-Servo: Cast Iron Front 52 (2.05) Wheel cyl inder bore 17.5 (0.69) Rear 22 (0.87) Bore Master cylinder 33 (1.30) Stroke 6.5:1 Manual: 4.75:1 Power Pedal arc ratio Line pressure at 445 N (100 lb.) pedal load [kPa (psi)] Lining clearance per shoe Front Self Adjusting Rear Self Adjusting Bonded or riveted (rivets/seg.) Bonded Rivet size Manufacturer Delco Moraine Lining code Front Material Semi-Metallic wheel 117 x 54.7 x 10.9 $(4.6 \times 2.15 \times .43)$ Primary or out-board Secondary or in-board $\times$ 48.8 $\times$ 11.4 (4.8 $\times$ 1.92 $\times$ .45) Brake Shoe thickness (no lining) Bonded or riveted (rivets/seg.) R<u>iveted</u> Manufacturer Delco Moraine Lining code Rear Material Organic wheel Primary or out-board $167.7 \times 43.9 \times 3.8 (6.6 \times 1.73 \times 0.15)$ Secondary or in-board $203.3 \times 43.9 \times 4.8 \quad (8.0 \times 1.73 \times 0.19)$ Shoe thickness (no lining) 2.75 (.106)

<sup>\*</sup> Excludes rivet holes, grooves, chamters, etc.

<sup>\*\*</sup> Includes rivet holes, grooves, chamfers, etc.

<sup>\*\*\*</sup> 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 Pi/2 for each brake.)

<sup>\*\*\*\*</sup> Size for drum brakes includes length x thickness.

Car Line	1983	10-15-82 Revised (*)
Model Year	1703	IssuedRevised (*)

Body	Туре	And/Or
Engin	e Dis	placement

2-DOOR	4-DOOR
HATCHBACK COUPE	HATCHBACK SEDAN
2TL08	2TL68

Steering
Manual (std.
Power (std.,

Manual (si	d., opt., n.a.	)		Standard	<del></del>		
Power (std., opt., n.a.)				Optional (a)	· · · · · · · · · · · · · · · · · · ·		
Adjustable steering wheel (tilt, swing, other)		Type and description (Std., opt., n.a.)			Tilt-Universally Jointed Steering Shaft at Base		
				Optional			
مام المحالة		Manual		381 (15.0)	** <u>**</u>		
Wheel diar	meter	Power		381 (15.0)			
	Outside	Wall to wall	(I. & r.)	10.5 (34.3)	10.6 (34.9)		
Turning	front	Curb to curb (I. & r.)		9.2 (30.2)	9.4 (30.8)		
diameter m (ft.)	Inside	Wall to wall	(I. & r.)	5.0 (16.5)			
	rear	Curb to curt	(I, & r.)	4.8 (15.9)			
·	1						
	1	Туре	<del></del>	Rack and Pinion			
	Gear	Make		Saginaw Steering Ge	ear		
Manual		Ratios	Gear	19.0:1			
		<u> </u>	Overall	18.4:1			
<del></del>	+	l turns (stop t		3.6			
	Type (coa	Type (coaxial, linkage, etc.)					
	Make	Make		Saginaw Steering Ge	Saginaw Steering Gear		
	1	Туре		Rack and Pinion with Integral Power Unit			
Power	Gear	Ratios	Gear				
		natios	Overall	18.0:1			
	Pump (dr	ive)		'V' Velt Off Cranks	shaft Pulley		
	No. whee	turns (stop t	o stop)				
-	Туре			Rack and Pinion	· · · · · · · · · · · · · · · · · · ·		
Linkage	Location (front or rear of wheels, other)		,.	Front	. """		
	Drag link	Drag links (trans. or longit.)		None			
	Tie rods	(one or two)		Two			
	Inclinatio	n at camber (	deg.)	7.55			
Steering		Upper		Ball Joint			
axis	Bearings (type) .	Lower		Ball Joint			
		Thrust		None			
Steering st	pindle & joir	nt type		Forged Knuckle W/Up	Forged Knuckle W/Upper and Lower Spherical Joints		
	Diameter	Inner bearin	9	26.97 (1.06)			
Wheel	Ciameter	Outer bearing	ng	17.45 (0.69)			
spindle	Thread (	Thread (size)		3/4 - 20 NEF (MIG-T			
	Bearing (type)			Tapered Roller			

<sup>(</sup>a) With Gas Engine, Automatic Transmission Must Be Ordered.

Car Line	1000		
Model Year _	1983	Issued_10-15-82	_Revised (*)

Body Type And/Or Engine Displacement

2-DOOR	4-DOOR
HATCHBACK COUPE	HATCHBACK SEDAN
2TL08	2TL68

Wheel Alignment

	i	Caster (deg.) +3.00 to +7.00	
Front	Service checking	Camber (deg.)	5º to +.9º
		Toe-in (outside track-mm (in.))	02° to +.14° (5 mm to +3.5 mm)
		Caster	+5.00 +/- 10
wheel at	Service	Camber	+.20 +/40
wt.)	reset	Toe-in	+.06° +/04° (+1.5 +/- 1.00 mm)
	Periodic M.V. in- spection	Caster	+3.00 to +7.00
		Camber	-1.250 to +1.750
		Toe-in	02° to +.14° (5 mm to +3.5 mm)
	Service checking.	Camber (deg.)	
		Toe-in [outside track-mm (in.)]	
Rear wheel at	Service	Camber	
curb mass (wt.)	reset	Toe-in	
	Periodic	Camber	
	M.V. in- spection	Toe-in	

<sup>\*</sup> Indicates pre-set, adjustable, trend set or other.

Car Line 1000

Model Year 1983 Issued 10-15-82 Revised (\*)

Body Type And/Or	2-DOOR	4-DOOR
Engine Displacement	HATCHBACK COUPE	HATCHBACK SEDAN
	2TL08	2TI.68

### Suspension - General

Car leveling	Std./opt./n.a.	None		
	Type (air, hyd., etc.)			
	Manual/auto, controlled			
Provision for brake dip control		Front Suspension Geometry		
Provision fo	or acci. squat control	Rear Suspension Geometry		
Special provisions for		Bumper Slots in Bottom of Front and Rear		
car jacking		Bumper Face Bars		
Shock	Туре	Direct, Double Acting, Hydraulic		
absorber (front &	Make	Delco .		
rear)	Piston diameter 25 (1.0)			
Other	int factures			
Other special features				

### Suspension - Front

Type and description		Independent SLA
	Full jounce	
Travel	Full rebound	
	Type (coil, leaf, other)	Coil
	Material	Steel Alloy
Spring	Size (coil design height & i.d., bar length x dia.)	209.3 (8.24) x 8.17 (3.22) x 2690.8 (105.9) x 12.06 (0.475)
	Spring rate [N/mm (lb./in.)]	28 (160)
	Rate at wheel [N/mm (lb./in.)]	12.9 (74)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	HR Steel - 22 (.87)

### Suspension - Rear

Type and description		· · · · · · · · · · · · · · · · · · ·	Solid Axle, Positioned by Links, Torque Tube and	
1700 2110 0	luacrip(ion		Track Bar	
Drive and to	Drive and torque taken through		Control Arms, Torque Tube	
Travel	Full iouace			
	Full rebound			
	Type (c	coil, leaf, other)	Coil Steel Alloy	
	Materia	ıl		
	Size (length x width, coil design height & i.d., bar length & dia.)  Spring-rate [N/mm (lb./in.)]		233.7 (9.20) x 92.62 (3.65) x 2301.9 (90.6) x 13.19 (0.519)  27.1 (155) - Variable Rate	
Spring				
	Rate at wheel [N/mm (lb./in.)]		20.5 (117)	
	Mounting insulation (type)			
	if	No. of leaves		
	leaf	Shackle (comp. or tens.)		
Stabilizer	Type (link, linkless, frameless)		None	
	Material & bar diameter			
Track bar (type)			Tubular, with Rubber Bushings	

Car Line 1000

Model Year 1983 Issued 10-15-82 Revised (\*)

MEIHIC	S (U.S. Custo	mary)				
Body Type			2-DOOR HATCHBACK COUPE 2TL08	4-DOOR HATCHBACK SEDAN 2TL68		
Body -	Miscellaneous	Information				
	ish (lacquer, enam		Acrylic Lacquer			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Hinge location (		Rear			
Hood	Type (counterba	<del></del>	Prop Rod			
	Release control (internal, external)		Internal			
Ŧ	Type (counterba	· · · · · · · · · · · · · · · · · · ·	Telescoping Gas Strut - 1	eft Side		
Trunk lid		control (elec., mech., n.a.)		beit bide		
	Bar material & m		Steel 9.365 (20.6)			
Bumper front		naterial & mass (wt.)	Steel 2.835 (6.2)			
	Bar material & n		Steel 8.487 (18.7)			
Bumper rear		naterial & mass (wt.)	None	<del></del>		
Manainda	<u> </u>	Front	None			
friction, piv	ow control (crank, ot. power)	Rear	Friction Pivot	None		
		Front	Formed Foam Pad			
Seat cushi	on type	Rear	Formed Foam Pad			
	··· ( <b>,,,</b> ,,	3rd seat	None	<del></del>		
	<del></del>	Front		· ·		
Seat back	tyne	Rear	Formed Foam Pad			
	.,,,,,	3rd sest	Formed Foam Pad None			
	nt. no. location	·	Top Left Hand of Instrume	ent Panel Pad		
<u> </u>	Standard/ optional	₹n	None	· · · · · · · · · · · · · · · · · · ·		
Inflatable restraint system	Type of charging system	· · · · ·	None	· · · · · · · · · · · · · · · · · · ·		
	Location (stg. whl., instru. panel, other)					
	Standard/ optional					
Passive seat	Power/ manual					
beits	2 or 3 point					
	Knee bar/ lap belt					
Frame						
Type and description (separate frame, unitized frame, partially-unitized frame)			Unitized Frame with Cross	member Reinforcement.		

Car Line	1000		
Model Year	1983	Issued 10-15-82 Revised (*)	

Body Type		2-DOOR	4-DOOR			
		HATCHBACK COUPE	HATCHBACK SEDAN			
		2TL08	2TL68			
	•					
Conveni	ence Equipment					
	Side windows	Not Available	· · · · · · · · · · · · · · · · · · ·			
Power windows	Vent windows	Not Available	<u> </u>			
	Backlight or tailgate	Not Available				
Power seats (specify type as well as availability)		Not Available				
Reclining f	ront seat back (r-I or both)	Standard				
		Optional AM/FM Push Button.				
Radio (spe well as ava	city type as ifability)	Optional AM/FM Push-Button Ste	reo			
Premium s	ound system (specify)	Not Available				
Rear seat		Not Available				
Power ante	nns	Not Available				
Clock		Not Available				
Air condition	oner (specify type)	Optional (Manual Control)				
	ning device	Not Available				
Speed-con		Not Available				
Ignition loc		Not Available				
Dome lamp		Standard				
	partment lamp	Optional				
	ompartment lamp	Optional				
Underhood		Optional				
Courtesy Is	amp	Optional				
Map lamp		Not Available				
Cornering	lamp .	Not Available				
Rear winds	ow defroster heated	Optional				
Rear winds	ow detogger	Not Available				
T-bar roof	(describe)	Not Available				
Sun roof (	describe)	Not Available				
Theft prot	ection-type	Lock Mounted on Steering Colum	n; Locks Steering			
		Wheel and Ignition				
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Car Line	1000	
Model Year	1983	Issued 10-15-82 Revised (•)

### **FEATURE HIGHLIGHTS**

(Manufacturers selected list of special vehicle features; indicate if new or model year introduced)

BODY:		
	•	
CHASSIS:		
		•
ENGINE:		
y i d		the following section of the section of
ELECTRICAL:		
OTHER:		

Car Line	1000		
Model Year	1983_	Issued 10-15-82	_Revised (*)

			Vel	icie Ma	188 (We	lght)		
	CURE	MASS, kg.	(weight, lb.) *	%	PASS. MAS	S DISTRIBU	TION	
Model				Pass I	n Front	Pass in	Rear	SHIPPING MASS, kg.
	Front	Rear	Total	Front	Rear	Front	Rear	(weight, lb.)**
2-Door Hatchback	504.1	442	974.4					921
Coupe 2TL08		(974)	(2088)					(2030)
		. (21.1)						
							.7	
4-Door Hatchback	520.8	448.8	969.6					943
Sedan 2TL68			)(2136.9)			<del></del>		(2078.9)
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Curb Weight - The ca	culate	d wedgi	t of a vehi	cle wi	th stan	dard on	ud nmen	only
			additional					
and five	1 fill	ad to	apacity.	Toau	OT OTTS	, rubea	, 0001	IIICS,
and Tu		eu Lo C	apacity.				<u> </u>	
					<del>                                     </del>	<del> </del>		
Shipping Weight - Same as	hase	crub we	ight except	3 021	one of	gasoli	ne	
onipping weight came as	Dase	CTOD MC	Igne except	J BOL	10113 01	<u> </u>		
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Reference — SAE J1100a, Motor vehicle dimensions, curb weight definition.
 Shipping mass (weight) definition —

Car Line 1000

Model Year 1983 | Issued 10-15-82 | Revised (\*)

		Op	tional Equip	pment Differential Mass (weight)*
Caulin and	М	ASS, kg. (we	ight, lb.)	Remarks
Equipment	Front	Rear	Total	Hemarks
Transmissions:			ļ <u>.</u>	
5-Speed Manual_(MM5)	7.5	4.1	11.6	
		(8.9)		
- Automatic (MX1)	22.2			
	(48.8)	(26.3)	(75.2)	
M = C = 11 + 1 = 1 = (C69)	1 22 2		27.0	<u> </u>
Air Conditioning (C68)	22.2	5.6 (12.3)	27.8	<del>                                     </del>
Battery, H.D. UA1	2.9	2	(61.2) 2.7	<del>-  </del>
Dactery, H.D. URI	(6.4)			<del> </del>
Cooling System-HD VO8	.9	1	.8	<del>                                     </del>
COOTING BYSEEM-IND VOG	(2.1)		1.8	<del></del>
Luggage Carrier V55	1.5	3.5	5.0	2-Door Model
	( 3.3)		<del></del>	The same of the sa
Floor Mats B37	1.0	1.1	2.1	
	(2,2)		(4.6)	
Mirrors Custom D69-D3		.4	1.2	
0/S	(.1.8)	•	(2.6)	
Power Brakes J50	2.6	.6	3.2	
	(5.7)		(7.0)	
Power Steering N41	72	1.8	9.0	With Air Conditioning
	(15.9)	( 3.9)	(19.8)	
Radios				
_ AM/FM U69				
	( .3)	( .1)	( .4)	
Wheel Cast Alum. N90	-2.6		-5.2	
11/		(-5.7)		
Wiper/Washer RR Window			2.7	
C25	(-1.1)	(+7.1)	( 6.0)	
		<u> </u>		
<u> </u>		<del> </del>		
	- +	<del>  </del>	<u> </u>	
		-		<u> </u>
	<del></del>	<del> </del>		
<u> </u>	<del>-  </del>	<del>                                     </del>	<del></del> -	
<del></del>		<del> </del>	· · · · · · · · · · · · · · · · · · ·	
			·	_1

<sup>\*</sup> Also see Engine — General Section for dressed engine mass (weight).

Car Line	1000			
Model Year	1983	issued 10-15-82	Revised (*)	

**METRIC (U.S. Customary)** 

Car and Body Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line. SAE Ref. no. refers to the definition published in SAE Recommended Practice.

J1100a "Motor Vehicle Dimensions," unless otherwise specified.

### HATCHBACK COUPE HATCHBACK SEDAN  ### Width    Tread (front)		0.5	2-DOOR			4-DOOR ~	
Width   Tread (front)	Rody Type					. =	
Width         Tread (front)         W101         1300 (51,2)           Tread (rear)         W102         1300 (51,2)           Venicle width         W103         1570 (61,8)           Body width at Sq RP (front)         W117         1546 (60,9)           Verbicle width (front doors open)         W121         —         2974 (117,1)           Verbicle width (front doors open)         W121         —         2974 (117,1)           Length         L101         2394 (94,3)         2466 (97,2)           Wencle langth         L103         4111 (161,9)         4183 (164,8)           Overhang (front)         L104         787 (31,0)         2586 (101,8)           Overhang (front)         L105         930 (36,6)         300 (36,6)           Overhang (front)         L123         2510 (98,8)         2586 (101,8)           Rear wheel C/L 'K' coordinate         L127         2179 (95,5)         306 (12,0)           Cowt point 'Y' coordinate         L127         2179 (95,5)         306 (12,0)           Height*         PD1,2,3         Z=0         **         2-0           **Turk/carpo load         **         **         2-0           **Passanger distribution (frt/rear)         PD1,2,3         Z=0         **	55Cy 1,95C	No.					
Tread (rear)	Width	I	21100		. I		
Tread (rear)		W101	<del></del>	1300	(51.2)		-
Vehicle width   Wid   Wid   Sody width at Sq. RP (front)   Wil   Wil   Sody width at Sq. RP (front)   Wil   Wil   Sq. (50,9)   Wil   Sq. (50,9)   Wil   Wi		W102	-			· · · · · · · · · · · · · · · · · · ·	-
Body width at Sq RP (front)		W103					<del></del>
Vehicle width (front doors open)   W120   3384 (133.2)   3048 (120.0)	<del></del>	W117					
Vehicle width (rear doors open)		W120	3384 (133.2)	2270	1	3048 (120.0)	-
Characteristics   Company   Compan	<del></del>	W121			<del>                                     </del>		
Wheelbase		<u> </u>			<u> </u>	27/7 (12/12)	
Vehicle length	Length				•	·	
Vehicle length	Wheelbase	L101	2394 ( 94.3)			2466 ( 97.2)	
Dupper structure length	Vehicle length	L103				4183 (164.8)	
Dupper structure length	Overhang (front)	£104		787	(31.0)		
Rear wheel C/L "X" coordinate	Overhang (rear)	L105		930	(36.6)		
Neight	Upper structure length	L123	2510 ( 98.8)		•	2586 (101.8)	
Passenger distribution (Irt./rear)	Rear wheel C/L "X" coordinate	L127		2179	(95.5)		
Passenger distribution (frt./rear) PD1.2.3 2-0	Cowl point "X" coordinate	L125	<del></del>	306	(12.0)		
Trunk/cargo load	Height*		·				
Vehicle height         H101         1342 (52.9)         1341 (52.8)           Cowl point to ground         H114         894 (35.2)         893 (35.2)           Deck point to ground         H138         957 (37.7)         958 (37.7)           Rocker panel-front to ground         H112         206 (8.1)         205 (8.1)           Bottom of door closed-front to grd.         H133         269 (10.6)         269 (10.6)           Rocker panel-rear to ground         H111         203 (8.0)         202 (7.9)           Bottom of door closed-rear to grd.         H135          266 (10.5)           Ground Clearance*           Front bumper to ground         H102         327 (12.9)         326 (12.8)           Rear bumper to ground [front at curb mass (wt.l)]         H104         330 (13.0)         331 (13.0)           Bumper to ground (frear at curb mass (wt.l)]         H105         349 (13.7)           Angle of approach         H108         18.60         18.49           Angle of departure         H107         24.70         27.50           Ramp breakover angle         H147         18.00         17.40           Rear axie differential to ground         H158         124 (5.7)         143	Passenger distribution (frt./rear)	PD1,2.3	2-0	, ,	k*	2-0	
Cowl point to ground	Trunk/cargo load			· ·	k*		
Cowl point to ground	Vehicle height	H101	1342 ( 52.9)			1341 ( 52.8)	
Rocker panel-front to ground	Cowl point to ground	H114	894 ( 35.2)		I.	893 ( 35.2)	
Bottom of door closed-front to grd. H133 269 ( 10.6) 269 ( 10.6) 202 ( 7.9)  Bottom of door closed-rear to ground H111 203 ( 8.0) 202 ( 7.9)  Bottom of door closed-rear to grd. H135 266 ( 10.5)  Ground Clearance*  Front bumper to ground H102 327 ( 12.9) 326 ( 12.8)  Rear bumper to ground H104 330 ( 13.0) 331 ( 13.0)  Bumper to ground [front at curb mass (wt.l)] H163 357 (14.1)  Bumper to ground frear at curb mass (wt.l) H105 349 (13.7)  Angle of approach H106 18.60 18.40 27.50  Ramp breakover angle H147 18.00 17.40  Rear axle differential to ground clearance H156 144 ( 5.7) 143	Deck point to ground	H138	957 ( 37.7)			958 ( 37.7)	
Rocker panel-rear to ground	Rocker panel-front to ground	H112	206 ( 8.1)			205 ( 8.1)	
Boltom of door closed-rear to grd.   H135     266 ( 10.5)	Bottom of door closed-front to grd.	H1 33-	269 ( 10.6)			269 ( 10.6)	
Ground Clearance*           Front bumper to ground         H102         327 (12.9)         326 (12.8)           Rear bumper to ground         H104         330 (13.0)         331 (13.0)           Bumper to ground [front at curb mass (wt.l)]         H103         357 (14.1)           Bumper to ground [rear at curb mass (wt.l)]         H105         349 (13.7)           Angle of approach         H106         18.6°         18.4°           Angle of departure         H107         24.7°         27.5°           Ramp breakover angle         H147         18.0°         17.4°           Rear axle differential to ground         H153         272 (10.7)         272 (10.7)           Min. running ground clearance         H156         144 (5.7)         143	Rocker panel-rear to ground	H111	203 ( 8.0)	•		202 ( 7.9)	
Front bumper to ground H102 327 (12.9) 326 (12.8)  Rear bumper to ground H104 330 (13.0) 331 (13.0)  Bumper to ground [front at curb mass (wt.]] H163 357 (14.1)  Bumper to ground [rear at curb mass (wt.]] H105 349 (13.7)  Angle of approach H108 18.60 18.40 27.50  Angle of departure H107 24.70 27.50  Ramp breakover angle H147 18.00 17.40  Rear axle differential to ground H153 272 (10.7) 272 (10.7)  Min. running ground clearance H156 144 (5.7) 143	Bottom of door closed-rear to grd.	H1 35				266 ( 10.5)	
Front bumper to ground H102 327 (12.9) 326 (12.8)  Rear bumper to ground H104 330 (13.0) 331 (13.0)  Bumper to ground [front at curb mass (wt.]] H163 357 (14.1)  Bumper to ground [rear at curb mass (wt.]] H105 349 (13.7)  Angle of approach H108 18.60 18.40 27.50  Angle of departure H107 24.70 27.50  Ramp breakover angle H147 18.00 17.40  Rear axle differential to ground H153 272 (10.7) 272 (10.7)  Min. running ground clearance H156 144 (5.7) 143							
Rear bumper to ground   H104   330 ( 13.0)   331 ( 13.0)	Ground Clearance*	<del>, , , , , , , , , , , , , , , , , , , </del>			<del></del>		
Bumper to ground [front at curb mass (wt.]] H163 357 (14.1)  Bumper to ground [rear at curb mass (wt.]] H105 349 (13.7)  Angle of approach H108 18.60 18.40 27.50  Angle of departure H107 24.70 27.50  Ramp breakover angle H147 18.00 17.40  Rear axle differential to ground H153 272 (10.7) 272 (10.7)  Min. running ground clearance H156 144 (5.7) 143	Front bumper to ground	H102		<del> </del>	·		
at curb mass (wt.)} H193 357 (14.1)  Bumper to ground {rear at curb mass (wt.)} H105 349 (13.7)  Angle of approach H106 18.60 18.40 27.50  Angle of departure H107 24.70 27.50  Ramp breakover angle H147 18.00 17.40  Rear axle differential to ground H153 272 (10.7) 272 (10.7)  Min. running ground clearance H156 144 (5.7) 143	Rear bumper to ground	H104	330 ( 13.0)		<u> </u>	331 ( 13.0)	
at curb mass (wt.)] H105 349 (13.7)  Angle of approach H106 18.60 18.40 27.50  Angle of departure H107 24.70 27.50  Ramp breakover angle H147 18.00 17.40  Rear axle differential to ground H153 272 (10.7) 272 (10.7)  Min. running ground clearance H156 144 (5.7) 143		H163		357	(14.1)		
Angle of departure         H107         24.70         27.50           Ramp breakover angle         H147         18.00         17.40           Rear axle differential to ground         H153         272 (10.7)         272 (10.7)           Min. running ground clearance         H156         144 (5.7)         143		H105		349	(13.7)		
Ramp breakover angle         H147         18.0°         17.4°           Rear axle differential to ground         H153         272 (10.7)         272 (10.7)           Min. running ground clearance         H156         144 (5.7)         143	Angle of approach	H106					
Hear axle differential to ground         H153         272 ( 10.7)         272 ( 10.7)           Min. running ground clearance         H156         144 ( 5.7)         143	Angle of departure	H107	24.70				
Min. running ground clearance H156 144 ( 5.7) 143	Ramp breakover angle	H147					
	Rear axle differential to ground	H153	272 ( 10.7)			272 ( 10.7)	
Location of min. run. grd. clear. Front Suspension	Min. running ground clearance	H156	144 ( 5.7)			143	
	Location of min, run, grd, clear,		Front Suspension				

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds).

<sup>\*</sup> All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified. Manuafacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

<sup>\*\*</sup> All Vehicle Height and Ground Clearances are Made Using EPA Loaded Vehicle Weight, Loading Conditions.

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	2-DOOR HATCHBACK COUPE 2TL08		4-DOOR HATCHBACK SEDAN 2TL68
Front Compartment				·
Sg RP front, "X" coordinate	L31		1118 (44.0)	
Effective head room	H61	960 (37.8)		974 (38.3)
Max. eff. leg room (accelerator)	L34	- <del></del>	1058 (41.6)	
Sg RP (front to heel)	H30		259 (10.2)	<u> </u>
Design H-point front travel	L17	<del></del>	134 ( 5.3)	
Shoulder room	W3		1261 (49.7)	· · · · · · · · · · · · · · · · · · ·
Hip room	W5	<del></del>	1270 (50.0)	
Upper body opening to ground	H50	<del></del>	1232	
Steering wheel angle	H18		30.2°	
Back angle	L40		26.5°	
Rear Compartment	L50	678 (26.7)		754 (29.7)
Effective head room	H63	945 (37.2)		937 (36.9)
Min. effective leg room	L51	785 (30.9)		884 (33.2)
Sg RP (second to heel)	H31	268 (10.5)		268 (10.5)
	1	=00 (±0.5)		
Knee clearance	L48	-62 (-2.4)		4 (0.2)
		-62 (-2.4)		
Compartment room	L48	-62 (-2.4)		4 (0.2)
Compartment room Shoulder room	L48	-62 (-2.4) 584 (23.0)		4 ( 0.2) 662 (26.1)
Compartment room Shoulder room Hip room	L48 L3 W4	-62 (-2.4) 584 (23.0) 1254 (49.4)		4 ( 0.2) 662 (26.1) 1256 (49.4)
Knee clearance Compartment room Shoulder room Hip room Upper body opening to ground Luggage Compartment	L48 L3 W4 W6	-62 (-2.4) 584 (23.0) 1254 (49.4) 1045 (41.1)		4 ( 0.2) 662 (26.1) 1256 (49.4) 1047 (41.2)
Compartment room Shoulder room Hip room Upper body opening to ground	L48 L3 W4 W6	-62 (-2.4) 584 (23.0) 1254 (49.4) 1045 (41.1)		4 ( 0.2) 662 (26.1) 1256 (49.4) 1047 (41.2)

All linear dimensions are in millimeters (inches).

Car Line 1000

Model Year 1983 | Issued 10-15-82 | Revised (\*)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

			•
Body Type	SAE Ref. No.	2-DOOR HATCHBACK COUPE 2TL08	4-DOOR HATCHBACK SEDAN 2TL68
Station Wagon - Third Sea	,		
Shoulder room	Tw85		
Hip room	wa6	Not	
Effective leg room	L86	<u>Applicable</u>	
Effective head room	H86	· — — · · · · · · · · · · · · · · · · ·	
Effective T-point head room	Н89		•
Seat facing direction	SD1		
		<u> </u>	
Station Wagon — Cargo Spa	100		
Cargo length (open front)	L200		
Cargo length (open second)	L201		•
Cargo length (closed front)	L202		
Cargo length (closed second)	L203	Not	<u> </u>
Cargo length at belt (front)	L204	Applicable	
Cargo length at belt (second)	L205		
Cargo width (wheelhouse)	W201		
Rear opening width at floor	W203		
Opening width at belt	W204		
Max. rear opening width above belt	W205	·	
Cargo height	H201		
Rear opening height	H202		
Tailgate to ground height	H250		
Front seat back to load floor height	H197		
Cargo volume index [m3(ft.3)]	V2		
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	V4		
Hatchback — Cargo Space			
Front seat back to load floor height	H197	488 (19.2)	488 (19.2)
Cargo length at front seat back height	L208	1024 (40.3)	1100 (43.3)
Cargo length at floor (front)	L209	1471 (57.9)	1547 (60.9)
Cargo volume index [m3(ft.3)]	V3	764L (27.0)*	811L (28.6 cu.ft.)*
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	V4		7222 (2010 531221)
		<u> </u>	

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

All dimensions are in millimeters (inches).

\*VII - Hatchback, Cargo Volume Index - Second Seat Up, 263 (9.3).

Car Line	1000			
Model Year	1983	!ssued_10-15-82	_Revised (*)	

Car and Body Dimensions See Key Sheets for definitions

2-DOOR	4-DOOR
HATCHBACK COUPE	HATCHBACK SEDAN
2TL08	2TL68

### Vehicle Fiducial Marks

·
measured fiducial_mark bolt.
measurement ed on top of
sured ark located
easured ial mark
easurement made the rear
measured 1 mark
.3)
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Reference — SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks — September, 1973, All linear dimensions are in millimeters (inches).

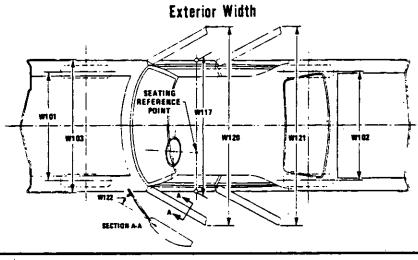
1000 Car Line\_ Issued 10-15-82 1983 Model Year. \_Revised (\*),

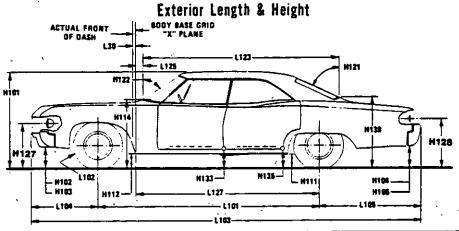
Car and Body Dimensions See Key Sheets for definitions

lody Type		SAE Ref. No.	2-DOOR HATCHBACK COUPE 2TL08	4-DOOR HATCHBACK SEDAN 2TL68
Glass				
lacklight slope s	ıngle (deg.)	H121	62.50	
Vindshield slope	angle (deg.)	H122	52.80	
umble-Home (d	eg.)	W122	20.30	
Vindshield glass Jurlace area (cm		S1	6735 (1043.9)	
Side glass expos area [cm <sup>2</sup> (in, <sup>2</sup> )]	sed surface	\$2	9926 (1538.5)	10903 (1690.0)
Backlight glass e Burlace area (cm		S3	5835 ( 904.4)	
Fotal glass expo area (cm <sup>2</sup> (in. <sup>2</sup> ))		S4	22496 (3486.9)	23473 (3638.3)
Windshield glass	s (type)		Curved - Laminated Plate	· · · · · · · · · · · · · · · · · · ·
Side glass (type)	)		Curved - Tempered Plate	
Backlight glass (	(type)		Curved - Tempered Plate	
.amps:and H	eadlamp Shar		<del>1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -</del>	
, , , , , , , , , , , , , , , , , , ,		<del> </del>	<u></u>	
i		Highest**	667 (06 2)	
	Headlamp (H1 27)	Highest**	667 (26.3)	· · · · · · · · · · · · · · · · · · ·
Height above		Lowest		
Height above ground to center of bulb or marker			694 (27.3)	
ground to center of bulb	(H127) Taillamp	Lowest	 694 (27.3) 	
ground to center of bulb	(H127) Taillamp	Lowest Highest**	 694 (27.3)  543 (21.4)	
ground to center of bulb	(H127) Taillamp (H128)	Lowest Highest** Lowest Front	 694 (27.3) 	
ground to center of bulb	(H127) Taillamp (H128)	Lowest Highest** Lowest Front Rear	 694 (27.3)  543 (21.4) 695 (27.4)	
ground to center of bulb or marker	(H127) Taillamp (H128) Sidemarker	Lowest Highest** Lowest Front Rear	 694 (27.3)  543 (21.4)	
ground to center of bulb	(H127) Taillamp (H128) Sidemarker	Lowest Highest** Lowest Front Rear Inside Outside**	694 (27.3) 543 (21.4) 695 (27.4) 562.0 (22.1)	
ground to center of bulb or marker  Distance from C/L of car to	(H127) Taillamp (H128) Sidemarker	Lowest Highest** Lowest Front Rear Inside Outside**	694 (27.3) 543 (21.4) 695 (27.4) 562.0 (22.1) 615 (24.2)	
ground to center of bulb or marker  Distance from C/L of car to	(H127) Taillamp (H128) Sidemarker	Lowest Highest** Lowest Front Rear Inside Outside**	694 (27.3) 543 (21.4) 695 (27.4) 562.0 (22.1)	

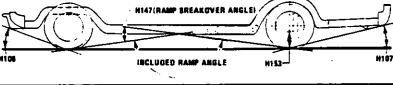
<sup>\*</sup> Measured at curb mass (weight),
\*\* If single lamps are used enter here.

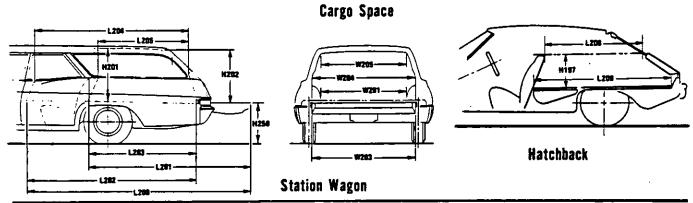
Exterior Car And Body Dimensions — Key Sheet









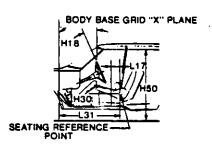


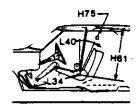
Page 28

MVMA-C-83

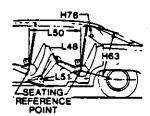
### Interior Car And Body Dimensions — Key Sheet

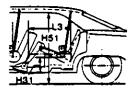
### Front Compertment



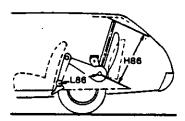


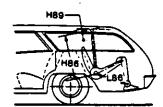
### Rear Compartment





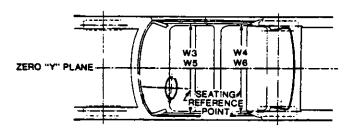
### Third Seat







### Interior Width



**METRIC (U.S. Customary)** 

Exterior Car And Body Dimensions — Key Sheet Dimensions Definitions

### Seating Reference Point

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

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

(b) Has coordinates established relative to the design vehicle structure:

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

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

#### Width Dimensions

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

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

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

or dual wheels, if standard equipment.

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

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

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

W122 TUMBLE HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.

CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door

glass at the front SgRP "X" plane.

#### Length Dimensions

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

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

L102 TIRE SIZE. As specified by the manufacturer.

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

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

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

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

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

L125 COWL POINT "X" COORDINATE.

#### **Height Dimensions**

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

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

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

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

H132 BOTTOM OF DOOR OPEN—FRONT TO GROUND.

The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.

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

H134 BOTTOM OF DOOR OPEN—REAR TO GROUND. The

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

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

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

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

DLO to the intersecting point on the windshield.
H127 HEADLAMP TO GROUND—CURB MASS (WT.). The
dimensional measured vertically from the centerline
of the lowest headlamp lens to ground.

H128 TAILLAMP TO GROUND—CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.

#### **Ground Clearance Dimensions**

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

**METRIC (U.S. Customary)** 

### Interior Car And Body Dimensions - Key Sheet **Dimensions Definitions**

H103	FRONT BUMPER TO GROUND CURB MASS (WT.).	H18	STEERING WHEEL ANGLE. The angle measured from
H104	Measured in the same manner as H104.	1.40	a vertical to the surface plane of the steering wheel.
H104	REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the	L40	BACK ANGLE—FRONT. The angle measured bet- ween a vertical line through the SgRP—front and the
	rear bumper to ground, including bumper guards, if		torso line. If the seatback is adjustable, use the nor-
	standard equipment.		mal driving and riding position specified by the
H105	REAR BUMPER TO GROUND-CURB MASS (WT.).	-	manufacturer
L11.00	Measured in the same manner as H104.	Rear C	ompartment Dimensions
H106	ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded	PD2	PASSENGER DISTRIBUTION - SECOND.
	radius are the initial point of structural interference	L50	SgRP COUBLE DISTANCE. The dimension measured
	forward of the front tire to ground. The limiting struc-		horizontally from the driver SgRP-front to the
	tural component shall be designated.	uca	SgRP—second.
H107	ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded	H63	EFFECTIVE HEAD ROOM—SECOND. The dimension measured along a fine 8 deg. rear of vertical from the
	radius are the initial point of structural interference		SgRP to the headlining, plus 102 mm (4.0 in.).
	rearward of the rear tire to ground: The limiting com-	H76	EFFECTIVE T-POINT HEAD ROOM-SECOND.
	ponent shall be designated.		Measured in the same manner as H75.
H147	REAR BREAKOVER ANGLE. The angle measured	L51	MINIMUM EFFECTIVE LEG ROOM—SECOND. The dimension measured along a line from the ankle pivot
	between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the		center to the SgRP—second plus 254 mm (10.0 in.).
•	underside of the vehicle which defines the largest	H31	SgRP-SECOND TO HEEL. The dimension measured
	ramp over which the vehicle can roll.		vertically from the SgRP-second to the two dimen-
H153	REAR AXLE DIFFERENTIAL TO GROUND. The		sional device heel point on the depressed floor cover-
	minimum dimension measured from the rear axle	L48	ing. KNEE CLEARANCE—SECOND. The minimum dimen-
H156	differential to ground.  MINIMUM RUNNING GROUND CLEARANCE. The	E-10	sion measured from the knee pivot to the back of front
11130	minimum dimension measured from the sprung vehi-		seatback minus 51 mm (2.0 in.).
	cle to ground. Specify location.	L3	COMPARTMENT ROOM—SECOND. The dimension
Front C	Compartment Dimensions		measured horizontally from the back of front seat to
PD1	PASSENGER DISTRIBUTION—FRONT.		the front of the second seatback at a height tangent to the top of the second seat cushion.
L31	SgRP—FRONT "X" COORDINATED.	W4	SHOULDER ROOM—SECOND. The minimum dimen-
H61	EFFECTIVE HEAD ROOM—FRONT. The dimension		sion measured laterally between trimmed surfaces on
	measured along a line 8 deg, rear of vertical from the		the "X" plane through the SgRP-second within-
H75	SgRP—front to the headlining plus 102 mm (4:0 in.).  EFFECTIVE T-POINT HEAD ROOM—FRONT. The		254-406 mm (10.0-16.0 in.) above the SgRP-se- cond.
пгэ	minimum radius from the T-point to the headlining	W6	HIP ROOM—SECOND. Measured in the same manner
	plus 762 mm (30 in.).		as W5.
L34	MAXIMUM EFFECTIVE LEG ROOM-ACCELERA-	H51	UPPER BODY OPENING TO GROUND-SECOND
•	TOR. The dimension measured along a line from the		The dimension measured vertically from the trimmed
	ankle pivot center to the SgRP—front plus 254 mm (10.0 in.) measured with right foot on the un-		body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP—second.
	depressed accelerator pedal. For vehicles with SgRP		(13.0 III.) IOI ward of the Synt — second.
	to heel (H30) greater than 18 in., the accelerator	Luggaç	je Compartment Dimensions
	pedal may be depressed as specified by the	V1	USABLE LUGGAGE CAPACITY—Total of volumes of
	manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note		individual pieces of standard luggage set plus H-
	the depression of the pedal.		boxes stowed in the luggage compartment in accor-
H30	SgRP—FRONT TO HEEL. The dimension measured		dance with the procedure described in paragraph 8.2 of SAE-J1100a.
	vertically from the SgRP-front to the accelerator	H195	LIFTOVER HEIGHT. The dimension measured ver-
147	heel point.		tically from the luggage compartment lower opening
L17	DESIGN H-POINT—FRONT TRAVEL. The dimension measured horizontally between the design H-point—		at the zero "Y" plane to ground.
	front in the foremost and rearmost seat trace posi-	Station	Wagon - Third Seat Dimensions
	tions.	PD3	PASSENGER DIRECTION—THIRD.
W3	SHOULDER ROOM—FRONT. The minimum dimen-	W85	SHOULDER ROOM—THIRD. Measured in the same
	sion measured laterally between the trimmed sur-	MOC	manner as W5.
	faces on the "X" plane through the SgRP—front with- in the bett line and 254 mm (10.0 in.) above the	W86	HIP ROOM— THIRD. Measured in the same manner as W5.
	SgRP—front.	L86	EFFECTIVE LEG ROOM—THIRD. The dimension
W5	HIP ROOM—FRONT. The minimum dimension		measured along a line from the ankle pivot center to
	measured laterally between the trimmed surfaces on	,	the SgRP—third plus 254 mm (10.0 in.).
	the "X" plane through the SgRP—front within 25 mm (1,0 in.) below and 76 mm (3.0 in.) above the SgRP—	H86	EFFECTIVE HEAD ROOM—THIRD. The dimension, measured along a line 8 deg. from the SgRP—third to
	front and 76 mm (3.0 in.) fore and aft the SoRP—front		measured along a line a deg. from the SgMP—(nird to

the headlining rear of vertical plus a constant of 102

EFFECTIVE T-POINT HEAD ROOM-THIRD.

Measured in the same manner as H75.

mm (4.0 in.).

H150

front and 76 mm (3.0 in.) fore and aft the SgRP-front.

UPPER BODY OPENING TO GROUND-FRONT. The

dimension measured vertically from the trimmed body

opening to the ground on the SgRP-front "X" plane.

H89

### Interior Car And Body Dimensions — Key Sheet Dimensions Definitions

dimension measured laterally between the limiting in-

terferences of the rear opening above the belt height.

Dimen	sions Definitions		·		
Station	Wagon - Cargo Space Dimensions	H201	CARGO HEIGHT. The dimension measured vertically		
L200	CARGO LENGTH-OPEN-FRONT. The minimum dimension measured longitudinally from the back of		from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane.		
	the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or	H202	REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor cover-		
	cargo surface if the rear closure is a conventional		ing to the upper trimmed opening on the zero "Y"		
	door type tailgate, at the zero "Y" plane.	H250	plane with rear door fully open.  TAILGATE TO GROUND (CURB MASS WT.). The		
L201	CARGO LENGTH—OPEN—SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor		dimension measured vertically from the top of the un- depressed floor covering on the lowered tailgate to		
	covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate,	V2	ground on the zero "Y" plane. STATION WAGON		
	at the zero "Y" plane.		Measured in inches:		
L202	CARGO LENGTH—CLOSED—FRONT. The minimum dimension measured horizontally from the back of the	•	$\frac{\text{W4 x H201 x L204}}{1728} = \text{ft.3}$		
	front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for		Measured in mm: <u>W4 x H201 x L204</u> = m <sup>3</sup> (cubic meter)		
1202	station wagons, trucks and mpv's at the zero "Y" plane. CARGO LENGTH-CLOSED-SECOND. The dimen-	V4	HIDDEN CARGO VOLUME. As specified by the manufacturer.		
L203	sion measured horizontally from the back of the se-	Uniobi	Hetebback - Carso Space Dimensions		
	cond seat at the height of the undepressed floor	Hatchback — Cargo Space Dimensions  All hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For			
	covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for				
	station wagons, trucks and mpv's at the zero "Y" plane.	electrically adjusted seats, see the manufacturer's specifica- tions for Design "H" Point).			
L204	CARGO LENGTH AT BELT—FRONT. The minimum dimension measured horizontally from the back of the	H197	FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent		
	front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the dab back panel at the height of the belt, on the		to the top of the seatback to the undepressed floor covering.		
	zero "Y" plane.	L208	CARGO LENGTH AT FRONT SEATBACK HEIGHT.		
L205	CARGO LENGTH AT BELT—SECOND. The minimum		The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seat-		
	dimension measured horizontally from the back of the second seatback at the seatback top to the foremost		back to the inside limiting interference of the		
	normal surface of the closed tailgate at the height of		hatchback door on the vehicle zero "Y" plane.		
	the belt, on the zero "Y" plane.	L209	CARGO LENGTH AT FLOOR-FRONT-		
W201	CARGO WIDTH-WHEELHOUSE. The minimum		HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seat-		
-	dimension measured laterally between the trimmed		back to the normal limiting interference of the		
	wheelhousings at floor level. For any vehicle not trim-		hatchback door on the vehicle zero "Y" plane.		
W203	med, measure the sheet metal.  REAR OPENING WIDTH AT FLOOR. The minimum	V3	HATCHBACK.		
******	dimension measured laterally between the limiting in-		Measured in inches:		
	terferences of the rear opening at floor level.		L208 + L209 xW4 xH197		
W204	REAR OPENING WIDTH AT BELT. The minimum		L208 + L209 xW4 xH197 2 1728 = ft.3		
	dimension measured laterally between the limiting in- terferences of the rear opening at belt height or top of		1/40		
	pick up box.		Measured in mm:		
W205	REAR OPENING WIDTH ABOVE BELT. The minimum		L208 + L209 x W4 x H197		
	dimension measured laterally between the limiting in-		2		

--m<sup>3</sup>(cubic meter)

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