

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1993

Manufacturer	SUZUKI MOTOR CORPORATION	Vehicle Line Geo METF	10
Mailing Address	CHEVROLET-PONTIAC-CANADA GROUP ENGINEERING CENTER	issued	Revised
	GENERAL MOTORS CORPORATION 30003 VAN DYKE WARREN, MICHIGAN 48090-9060	NOVEMBER, 1992	

Direct questions concerning these specifications to the manufacturer listed above.

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



Motor Vehicle Manufacturers Association of the United States, inc.

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METRIC (U.S. Customary)

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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 ÓTHERWISE 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 compilation and are subject to change without notice or incurring obligation by the manufacturer.
- Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

Vehicle Line	Geo ME	TRO			
Model Year	1993	Issued	9-92	Revised(*)	

METRIC (U.S. Customary)

Vehicle Orlgin

Adulcie Cliditi	
Design & development (company)	Suzuki Motor Corporation
Where built (country)	Japan/Canada
Authorized U.S. Sales marketing representative	Chevrolet/Geo

Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Econamy (City/Hwy)
Geo METRO · 2-Door Hatchback Coupe (FWD)	1MR08	2/2	40 (88)	46/50, Man. 36/39, Auto.
2-Door Convertible (FWD)	1MR67	2/0	40 (88)	41/46, Man. 32/38, Auto.
4-Door Hatchback Sedan (FWD)	1MR68	2/2	40 (88)	46/50, Man. 36/39, Auto.
Geo METRO XFi 2-Door Hatchback Coupe (FWD)	1MS08	2/2	40 (88)	53/58, Man.

Vehicle Line Geo METRO

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METRIC (U.S. Customary) Power Teams

SAE J1349 Net blip (brake hispwr) and Net Torque corrected to 77 deg. F / 25 deg. C and 29.61 in. Hg/100 kPA atmos. press,

_			Α	В	C ·	D
	Eng	Engine Code LP2		LP2	LP2	LP2
	Dis Lite	placement ra (cu. in.)	1.0 (61)	1.0 (61)	1.0 (61)	1.0 (61)
E	(Fi,	uction system Carb, etc.)	Electronic Fuel Injection	Electronic Fuel Injection	Electronic Fuel Injection	Electronic Fuel Injection
G	Cor	ngression	9.5:1	9.5:1	9.5:1	9.5:1
N E	SAI	Power kW(bhp)	41 (55) @ 5700	41 (55) @ 5700	36 (49) @ 4700	41 (55) @ 5700
	At	Vi Torque Newton meters (lb.ft.)	79 (58) @ 3300	79 (58) @ 3300	79 (58) @ 3300	79 (58) @ 3300
		zust jie, duzi	Single	Single	Single	Single
TR	T-4	nsmission/ nsaxle	Manual 5-Speed	Auto 3-Speed	Manuai 5-Speed	Manual 5-Speed
N S	Driv	ective Final ve/ Axle Ratio , first)	4.10	3.87	3.79	4.39

* - Fuel Economy Version

Series Av	ailability	Power Tea	ms (A - B - C - D)
Model	Code	Standard	Optional
Geo METRO		<u></u>	· · · · · · · · · · · · · · · · · · ·
2-0r. Hatchback Coupe	1MR08	Α	В
2-Dr. Convertible	1MR67	D	В
4-Dr. Hatchback Sedan	1MR68	Α	В
Geo METRO XFI		·	<u> </u>
2-Dr. Hatchback Coupe	1MS08	С	-
	1		
•			
··· · · · · · · · · · · · · · · · · ·			
<u></u>			

Vehicle Line	Geo	METRO			
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Engine Description

1.0 LITER L3 (61 CID)

ELECTRONIC FUEL INJECTION RPO LP2 Engine Code ENGINE - GENERAL Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, soho, doho, ohv, hemi, wedge, pre-chamber, etc.) Inline, Front, SOHC Transverse Suzuki Motor Corporation Manufacturer No. of cylinders 74 mm (2.91 in.) Bore 77 mm (3.03 in.) Stroke 84 mm (3.31 in.) Bore spacing (C/L to C/L) Aluminum Alloy, 11.85 (26.12) Cyl blck matl & mass kg(lbs.)(machined) 186.8 mm (7.35 in.) Cylinder block deck height 288 mm (11.34 in.) Cylinder block length Deck clearance (minimum) (above or below block) 0.4 mm (0.02 in.), Above Aluminum Alloy, 5.12 (11.29) Cyl. head material & mass kg (lbs.) 30.2 (1.84) Cylinder head volume cu. cm. (cu. in.) Cast Iron Cylinder liner material Head gasket thickness (compressed) 1.2 mm (0.05 in.) Minimum combustion chamber total volume cu. cm. (cu. in.) 38.96 1-2-3 L. Bank R. Bank 1-3-2 Firing order Aluminum Alloy, 1.66 (3.66) intake manifold mati & mass kg(lbs.) ** Cast Iron, 3.37 (7.43) Exh. manifold mati & mass kg (lbs.) *** Not Applicable Knock sensor (number & location) Unleaded Fuel required unleaded, diesel, etc. 86 + Octane Fuel antiknock index (R + M) / 2 Quantity Rubber, Elastomeric (M/T Model) Mati and type (elastomeric, hydroelastic, hydraulic damper, etc.) Rubber, Hydroelastic (A/T Model) Added isolation (sub-frame, crossmember, etc.) MT: 61.0 (134.5), AT: 56.5 (124.6) Total dressed engine mass (wt) dry*** Engine - Pistons Aluminum Alloy, Material & mass, g (weight, oz.) – piston only 218 g. (7.69 oz.) [220 g. (7.76 oz.) XFi Models] **Engine Camshaft** Cylinder Head Location Material & mass kg (weight, lbs.) Cast Iron, 1.24 (2.73) Belt Orive type Chain/bett 19.1/9.525 mm (.75/0.38 in.) Width/pitch

[&]quot;Rear of engine – drive takeoff. View from drive takeoff end to determine left & right side of engine.
"Finished state.
""Oressed engine mass (weight) includes the following:

							4		
	0	-41	Vehicle Line	Geo I	METRO				
MVMA Specifications		Model Year	1993	Issued	9-92	Revised(*)			
METRIC (U.S. Customa	ary)						<u> </u>	
Engine Desc	ription		1.0 LITER L3 (61	CIDI					
Engine Code	•		ELECTRONIC FUE	•	ON RPO LE	2			
Engine -	Vaive System	n							
Hydraulic lifters (std., opt., n.a.)		Standard							
Number intake/exhaust		3/3							
Valves	Head O.D. intake	r/exhaust	35/28 mm (1.38/1.1	0 in.)					
Engine -	Connecting f	Rods							
	kg., (weight, lbs.)*	1000	Forged Steel, 0.415	(0.915), [0.	36 (0.794) XI	Fi Models)	***		
Length(axes ce	nterline to centerline)	120 mm (4.72 in.)						
Engine -	Crankshaft								
Material & mass kg., (weight, lbs.)*		Nodular Iron, 6.66 (14.7), (5.90	(13.0) XFi M	odeisì				
End thrust taken by bearing (no.)		2		(/					
Length & numb	er of main bearings		18 mm (0.71 in.) x 4	18 mm (0.71 in.) x 4					
Seal (material, o	ne, two	Front	Rubber, One Piece						
piece design, et	c.)	Rear	Rubber, One Piece						
Engine -	Lubrication S	System							
Normal oil press	ure ŁPa(psi) 😉 eng r	pm	333 (392) @4,000						
Type oil intake (floating, stationary)		Stationary						
Oil fifter sys. (fu	il flow,part, other)		Full Flow						
Capacity of c/c filter-refill-L (q			3.1 (3.3)						
Engine -	Diesel Inform	nation	(NOT APPLICABLE))					
Diesel engine m	anufacturer								
Glow plug, curr	ent drain at 0 deg. F								
injector Nazzie	Туре					<u>.</u>			
	Opening pressure	e kPa(psi)	-1					· · · · · · · · · · · · · · · · · · ·	
Pre-chamber d		••							
Fuel in- jection pump	Manufacturer		- '					<u> </u>	
	Туре								
	rive (belt,chain,gear								
	vacuum source (type	•)							
Fuel heater (yes									
(std., opt.)	r, description						· 		
Turbo manufact	ntet		,						
Oil cooler-type oil to ambient a	(ail to engine coolan r)	t; .							

Intercapter

Engine - Intake System

Turbo charger - manufacturer Super charger - manufacturer

Oil filter

(NOT APPLICABLE)

^{*}Finished State

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Engine Description
Engine Code

1.0 LITER L3 (61 CID)
ELECTRONIC FUEL INJECTION RPO LP2

	Cooling System	MANUAL TRANS.	AUTOMATIC TRANS.
	y system (std, opt, n.a.)	Standard	
	tion (rad., bottle)	Bottle	
Radiator cap re kPa (psi)	lief valve pressure		
Kre (pai)		88.3 (12.8)	
Circulation	Type (choke, bypass)	Choke	
thermostat	Starts to open @ deg's C(F)	88 (190), [92 (198) XFi Models]	
	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	15	
	Number of pumps	1	
Water Pump	Orive (V-belt, other)	V Ribbed Belt	
	Bearing type	Ball & Ball	
	Impeller material	Steel	
	Housing material	Aluminum Alloy	
By-pass recirc	ulation type (inter.,	F. damed	
		External 2.0 (4.1)	4.0 (4.2)
Cooling	With heater - L (qt.)	3.9 (4.1)	4.0 (4.2)
system capacity	With air conditioner-L(qL)	3.9 (4.1)	7.0 (7.6)
	Opt. equip. specify-L(qt.)	No.	
Water jackets	full length of cyl(yes,no)	Yes	
Water all arous	nd cylinder (yes, no)	Yes	
Water jackets	open at head face (yes,no)	Yes	
	Std., A/C, HD	Standard	
	Type (cross-flow, etc.)	Vertical - Flow	<u> </u>
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube	
Radiator core	Mati., mass kg (wgt.,lbs.)	Copper & Brass, 2.1(4.6)	3.0 (6.6)
	Width	358 mm (14.09 in.)	328 mm (12.91 in.)
	Height	350 mm (13.78 in.)	325 mm (12.80 in.)
	Thickness	16 mm (0.63 in.)	32 mm (1.26 in.)
	Fins per inch	10	
Radiator end		Plastic	
	Std., elec., opt.	Standard, Electric	
	Number of blades & type (flex, solid, material)	4. Solid, Plastic	
	Number & location (front, rear of radiator)	1, Rear of Radiator	
	Diameter & projected width	300 mm (11.81 in.)	
_	Ratio(fan to crnkshft.rev.)	Not Applicable	
Fan	Fan cutout type		
	Drive type (direct, remate)	Direct	
	RPM at idle (elec.)	2,100 rpm	
	Motor rating(wattage)(elec)	80	
	Motor switch (type & location/elec.)	Birnetal Type, On Thermostat Case	
	Switch point (temp.,/ pressure/elec.)	ON/OFF: 98/93 (208/199); 102/97 (216/207)	, XFi Models
	Fan shroud (material)	Plastic	Steel

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Engine Description Engine Code 1.0 LITER L3 (61 CID)

ELECTRONIC FUEL INJECTION RPO LP2

Induction type: carburetor, fuel injection system, etc.					
njection system,	etc.	Fuel Injection			
Manufacturer		NIPPON DENSO CO. LTD.			
Carburetor no. of	barrels	Not Applicable			
dle A/F mix.		14.6			
	Point of inj. (no.)	Throttle Body, One			
Fuel Injection	Constant, pulse, flow	Puise			
njecuon	Control (elec., mech.)	Electronic			
	Ŝys. press. kPa (psi)	180 (26)			
	Manual	800 (Neutral), [700 (Neutral) XFI Models]			
ldle spd.–rpm (spec. neutral					
or drive and propane if	Automatic	850 (Neutral)			
used)					
intake manifold ho or water thermost	eat control (exhaust tatic or fixed)	Water (Coolant)			
Air cleaner type		Replaceable Nonwoven Fabric Element,			
		Single Snorkel			
Fuel filter (type/location)		Paper/Fuel Tank Side			
Type (elec. or mech.)		Electric			
	Location (eng., tank)	Tank			
Fuel pump	Press. range kPa (psi)	180 (26)			
	Flow rate at regulated pressure (L (gail/hr @				
	kPa (psi)	50 @ 220 (13.2 @ 32)			
Fuel Tank		<u> </u>			
Capacity refill L (g	gallons)	40 (10.6)			
Location (describe	0)	Under Floor - Rear			
Attachment		Bott			
Material & Mass k	cg (weight lbs.)	Steel, 8.6 (18.9)			
Filler	Location & material	Left Side Rear Quarter Panel, Steel			
pipe	Connection to tank	Kevlar Reinforced Rubber Hose			
Fuel line (material)	Steel			
Fuel hase (materi	ai)	FKM/CHC/CHC (Main Hose), FSM/NBR/CHC (RTN Hose)			
Return line (mater	nai)	Steel			
Vapor line (materi	ai)	Steel			
	Opt., n.a.	Not Applicable			
Extended	Capacity L (gallons)	#			
галде		*			
алде	Location & material				
алде		*			
галде	Attachment	Not Applicable			
галде	Attachment Opt., n.a.	Not Applicable			
range tank	Attachment Opt., n.a. Capacity L (gallons)				
галде	Attachment Opt., n.a. Capacity L (gallons) Location & material	н			
range tank	Attachment Opt., n.a. Capacity L (gallons)	я			

 Vehicle Line
 Geo METRO

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METRIC (U.S. Customary)

Engine Description Engine Code 1.0 LITER L3 (61 CID)
ELECTRONIC FUEL INJECTION RPO LP2

	Type (air injec modifications	tion, engine	Feedback Fuel Injection + 3 Way Catalyst + EGR
	Pump or puise		Not Applicable
	}	Driven by	
	Air injection	Air distribution (head, manifold, etc.,)	п
		Point of entry	,
xhaust mission ontrol	Exhaust Gas .	Type (controlled flow, open orifice, other)	Backpressure Controlled
	Recircu- lation	Exhaust source Point of exh.inj. (spacer, carb., manifold, other)	Manifold
		Type	3-Way
		Number of	1
	1		Under Floor
	Çatalytic	Location(s)	
	Canverter	Valume L (cu.in)	0.9 (54.9) Monolith
		Substrate type	Platinum (Pt), Rhodium (Rh)
		Noble metal type Noble metal concentration	raditum (1 t), thought (1 ti)
<u>-</u> -	Type (ventila atmosphere, system, other	induction	Induction System
rankcase mission ontrol	Energy source (manifold vacuum, carburator, other)		Manifold Vacuum
	Discharges (manifold, ot		Intake Manifold
	Air init(breat	her cap,other)	Air Cleaner
vapora-	Vapor vente	d to Fuel tank	Canister
mission -	(crankcase, canister.oth	er) Carburetor	
ontrol	Vapor storaç	e provision	Canister
lectron-	Closed loop	(yes/na)	Yes
ystem	Open loop (y	res/no)	Yes
ngine	– Exhaust	System	
ype (single ual, other)	, single with cro	58-0Ver,	Single
traight thri	& type (reverse f i, separate resoi lass kg (weight)	nator)	2. Straight Thru.
lesonator n	o. & type		1. Straight Thru.
xhaust	Branch o.d.	, wall thickness	Not Applicable
ipe	Main o.d., v	vall thickness	48.6-1.6/38.1-1.2 mm
		s kg (wght.ibs.)	Inner: Stainless Steel, Outer: Aluminum Coated Steel
nter-	o.d. & wall t		45.0-1.6/35.0-1.2 mm Inner: Stainless Steel, Outer: Aluminum Coated Steel
regiate	Mati. & Mass kg (wght.lbs.)		i inner: Siziness Sieel. Outer Alumium Cuzieu Sieel
nediate upe 'ail	o.d. & wall t		38.1-1.2 mm

MVMA Specifications

Vehicle Line	Geo	METRO			
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METRIC (U.S. Customary)

Engine	Description
Engine	Code

1.0 LITER L3 (61 CID)
ELECTRONIC FUEL INJECTION RPO LP2

Transmissions/Transaxle (Std., Opt.,	N.A.)
Manual 4-speed (manufacturer/country)	Not Applicable
Manual 5-speed (manufacturer/country)	Standard, Suzuki Motor Corporation/Japan
Manual 6-speed (manufacturer/country)	Not Applicable
Automatic (manufacturer/country)	AISIN SEIKI/JAPAN
Auto. overdrive (manufacturer/country)	Not Applicable

Manual Transmission/Transaxie

Number of for				
Number of forward speeds		5		
	1st	3.42		
	2nd	1.89		
Gear	3rd	1.28		
ratios	4th	0.91		
	5th	0.78		
	6th	•		
	Reverse	3.27		
Synchronous	meshing (specify gears)	All Forward Gears		
Shift lever loc	ation	Floor Mounted		
Trans. case ma	at'i. & mass kg (lbs)"	Aluminum Die-Cast, 7.7 (16.9)		
<u> </u>	Capacity L (pt.)	2.4 (5.1)		
Lubricant	Type recommended	Suzuki Gear Oil FN75W		

Clutch (Manual Transmission)

Clutch man	ufacturer		DCC (Canada)
Clutch type disc)	e (dry, wet; single, multip	ie	Dry, Single
Linkage (hy	Linkage (hyd., cable, rod, lever, other)		Cable
	effort (nom.	Depressed	78 (17.5)
spring load) N (IDS.)	Released	50 (11.2)
Assist (spri	ng, power/percent, nomi	nai)	Nominal
Type press	ure plate springs		Diaphragm
Total spring	g load (nominal) N (lbs.)		2,550 (573.3)
	Facing mfgr. & matt	coding	F.C.C. Co., LTD.
	Facing matt. & cons	truction	Semi-Mold Semi-Mold
	Rivets per facing		16
	Outside x inside dia	., (nom.)	170 x 110 mm (6.69 x 4.33 in.)
Clutch	Total off.area sq cm (sq in)		132 (20.5)
facing	Thickness (pressure plate side/fly wheel side) Rivet depth (pressure plate side/fly wheel side)		3.0/3.0 mm (0.12/0.12 in.)
			Min. 0.9/0.9 mm (0.04/0.04 in.)
	Engagement cushic	in method	Separate Cushion Type
Release be	aring type & method lub	•	Automatic Center Adjusting Type With Grease Lubrication
Torsional d hysteresis	lamping method, springs	•	Springs

 $[\]ensuremath{^{\circ}}$ includes shift linkage, lubricant, and clutch housing. If other specify,

Geo METRO Vehicle Line 9-92 Revised Issued Model Year

METRIC (U.S. Customary)

Engine Description Engine Code

1.0 LITER L3 (61) ELECTRONIC FUEL INJECTION RPO LP2

Trade Name		3-Speed Automatic
		5-Speed Materials
Type and specia	il features (describe)	
		Torque Converter With Planetary Gears
Shift mechanics	·	Electronic Control
	Location (column, floor, other)	Floor Mounted On Console
Gear selector	LAr./No. designation (e.g. PRND21)	P-R-N-D-2-L
	Shift interlock (yes, no, describe)	Yes
	1st	2.81
	2nd	1.55
	3rd	1.00
Gear	4th	Not Applicable
ratios	5th	*
	8th	
	Reverse	2.30
	Final drive ratio	3,947
May pesside	ehicle speed - drive	1 - 2 = 52 (32.3)
range km/h (m¢		2 - 3 = 97 (60.3)
	- i	6000 RPM
	ngine speed RPM	2 - 1 = 37 (23.0)
km/h (mph)	n speed - drive range	3 - 2 = 82 (50.9)
Min. overdrive speed km/h (mph)		Not Applicable
	Туре	3 Elements, 1 Stage, 2 Phases
	Torus design	
	Number of elements	3
Torque	Max. ratio at stall	2.1
converter	Type of cooling (air, liquid)	Liquid
	Nominal diameter	210 mm (8.27 in.)
	Capacity factor "K"	1.2 x 10-6
Pump type	Outputty Local III	Trochoid Pump
- Unit 1740	Capacity refill L (pt.)	4.9 (10.4)
Lubricant	Type recommended	Dexron II
Oil cooler (std	I., opt., N.A., internal,	Standard, Integral With Radiator
external, air, it	g (lbs) & case mati.**	Aluminum Die-Cast, 51 (112.4)
	el / 4 Wheel Drive	(NOT APPLICABLE)
Desc. & type	(part-time, full-time, e moving, mech., elect.,	
	Manufacturer and model	
Transfer	Type and location	
Low-range of		
	nnect (describe)	
Center	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
differential	Towns on live for forms	

^{*} Input speed / square root of torque.
** Dry weight including torque converter, if other, specify.

MVMA	Specifica	tions
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Vehicle Line	Geo (METRO			
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Engine Description Engine Code 1.0 LITER L3 (61 CID)
ELECTRONIC FUEL INJECTION RPO LP2

Axie Ratio and Tooth Combinations (See Power Teams' for axie ratio usage)

Effec. final gear ratio)	drv. ratio (or o	verali top	AT: 3.87	Base MT: 4.10	XFi MT: 3.79	Conv. MT: 4.39
rnsfr ratio	and method(c	hain,gear,etc)	Not Available			
_	Ring gear	o.d.	188.12 mm	184.70 mm	186.98 mm	186.98 mm
Frant Irivo	Na. af	Pinion	19	19	19	18
init	teeth	Ring gear	75	78	72	79

Front Drive Unit

	integral to trans., etc.)	Front Differential With Helical Gears And Ball Bearing		
Limited slip differential (type)		None		
•	Туре	Helical Gear		
Orive pinion	Offset	Not Applicable		
No. of differential pinions		2		
finion/	Adjustment (shim, etc.)	Shim		
ifferential	Bearing adjustment	Not Applicable		
Oriving whee	el bearing (type)	Ball Bearing		
	Capacity L (pt.)	Not Applicable		
Lubricant	Type recommended	Automatic Transmission Fluid		

Axle Shafts - Front Wheel Drive

Manufacturer and number used				NTN Corporation, 2
Type (straight, solid bar, tubular, etc.) Left Right		Left	Solid Bar	
		Right	Solid Bar	
•	T.,		Left	22 x 455.7 (0.87 x 17.94 in.)
Outer diam, x	Manual trai	TSAXIO	Right	22 x 546.5 (0.87 x 21.52 in.)
length" x wall			Left	19.4 x 410.1 mm (0.76 x 16.15 in.)
thickness	Automatic	transaxie .	Right	19.4 x 591.6 mm (0.76 x 23.29 in.)
			Left	None
	Optional tra	Optional transaxie		None
	Туре	, ' ' ' ' '		None .
Slip yoke	Number of	testh		n
	Spline o.d.	•		
	· ·		inner	NTN Corporation
	Make and	nfg. no.	Outer	н
	Number used			4
			Inner	Tripod, TJ75
Universal	Type, size,	b jnuge	Outer	Rzeppa, BJ75
join ts	Attach (u-	oolt, clamp, etc.)		Serration
		Type (plain, anti-friction)		Anti-Friction
	Bearing	Bearing Lubrication (fitting, prepack)		Prepacked
Orive taken t arms or sprin	hrough (torqu gs)	e tube,		Lower - Control Arm, Upper - MacPherson Strut
Torque taken arms or sprin	through (torc gs)	jue tube,		Engine Mounting System

^{*} Centerline to centerline of universal joints, or to centerline of attachment.

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

Vehicle Line	Geo	Geo METRO			
Model Year	1993	Issued	9-92	Revised(*)	

COUPE	SEDAN	CONVERTIBLE

igine Dist			COUPE	SEDAN	CONVERTIBLE				
•		- General Including E	lectronic Controls						
rahelisi	_	./opt./not avail.	Not Applicable						
	Manual/automatic control								
	Type (air/hydraulic)								
_	_	nary/assist spring							
r reling		r only/4 wheel leveling							
	Single/dual rate spring								
	_	gle/dual ride heights							
		vision for jacking	Not Applicable						
		ndard/option/not avail.	Mot / April 100	<u> </u>					
	_	nual/automatic control							
	_	mber of damping rates							
hock osorber amping	Type of actuation (manual/ electric motor/air, etc.)				<u>.</u>				
ontrols	3	Lateral acceleration							
	8	Deceleration							
	9 0	Acceleration							
	г 5	Road surface							
	Ту		Front MacPherson, R	ear: MacPherson, Double Actin	g Hydraulic				
hock bsorber	Ma	-	Front: SHOWA, Rear:						
ront &	_	ston diameter		Front: 25 mm (0.984 in.), Rear: 25 mm (0.984 in.)					
	_	d diameter		Front: 18 mm (0.71 in.), Rear: 18 mm (0.71 in.)					
ype and des			MacPherson Strut Wit	th Coil Spring	<u></u>				
Fravel		ili jounce (define load ndition)	100 mm (3.94 in.)						
	Fu	ll rebound	50 mm (1.97 in.)						
	Ту	pe,(coii,leaf,other&mati)	Coil, Steel						
	Ins	sulators (type & mati)	Rubber (Top Only)	Rubber (Top Only)					
Spring	00	ze (Leaf; length & width; oil; design height & i.d.; ar:length & diameter)	301 x 125.6 mm		309.5 x 125.5 mm				
	_ ⊢	oring rate N/mm (lb./in.)	17.2						
			17.2	·					
		ate @ wheel N/mm (lb./in)	Not Applicable						
Stabilizer	_	ype (link,Inkless,frmless)	1101 Applicabile						
		aterial & O.D. bar/tube, all thickness							
Suspen	sion	- Rear							
Type and de	scripti	on	MacPherson Strut, S	eparate Coil Spring					
Travei	F	ull jounce (define load andition)	120 mm (4.71 in.)						
	F	uli rebound	50 mm (1.97 in.)	50 mm (1.97 in.)					
	T	ype(coil,leaf,other)&matl	Coil, Steel						
	10	ize (Leaf: length & width; oil: design height & i.d.; lar: length & diameter)	258 x 95 mm	262 x 95 mm	258 x 95 mm				
Spring		ipring rate [N/mm (lb/in)]	45.1 (257.5)						
Shund	-	late @ wheel [N/mm (lb/in)]	17.6 (100.5)						
	<u> </u>	<u> </u>	Rubber		· · · · · · · · · · · · · · · · · · ·				
	- 1	nsulators(type & material) No. of leaves	Not Applicable						
		at -	и и						
	-	Shackle(comp or tens)	None						

Track bar (type)

Stabilizer

Type(link,inkless,frmless)

Material & O.D. bar/tube, wall thickness

None

MVMA Specifications Vehicle Line Geo METRO 9-92 Model Year 1993 Issued Revised(*) **METRIC (U.S. Customary)** Model Code/Description And/Or CONVERTIBLE **COUPE & SEDAN** Engine Code/Description Brakes - Service Description Hydrautic, Front - Floating Caliper Type. Rear - Leading Trailing Shoe Type AISIN SEIKI, Disc Manufacturer and Front (disc or drum) brake type (std., opt., n.a.) NISHINBO, Drum Rear (disc or drum) Proportion Valving type(prop.delay,metering,other) Standard Power brake (std., opt., n.a.) Vacuum Booster type(rmt,intgrl,vac.,hyd.,etc.) Inline (Intake Manifold) Source (inline, pump, etc.) Not Applicable Vacuum Reservair (volume cu. in.) Operational speed range Traction Type (engine or brake intervention) Front/rear (std., opt., n.a) Manufacturer Type (electronic, mech.) Antilock Number sensors or circuits No. antilock hyd. circuits integral or add-on system Yaw control (yes, no) Hydraulic power source Effective area sq. cm. (sq. in.)* 143/172 (22.2/26.7) 136/172 (21.1/26.7) Gross Lng area sq. cm. (sq. in.)**(F/R) 148/172 (22.9/26.7) 139/172 (21.5/26.7) 902/282 (139.8/43.7) 869/282 (134.7/43.7) Swept area sq. cm. (sq. in.)***(F/R) 213/---mm (8.39 in.) 229/--mm (9.02 in.) Outer working diameter F/R 130/-- mm (5.12 in.) 154/--mm (6.06 in.) inner working diameter Rotor 10/--- mm (0.39 in.) 17/--mm (0.67 in.) F/R Thickness Cast Iron, Vented F/R Cast Iron, Solid Matl & type (vented/sld) ---/180 x 25 mm (---/7.09 x 0.98 in.) Diameter & width F/R Orum F/R -/Cast Iron Type and material 48.1/15.8 mm (1.89/0.62 in.) Wheel cylinder bore 20.6/28.5 mm (0.81/1.12 in.) F/A Master cylinder Bore/strake Pedal arc ratio 4.1:1 Line pressure at 445 N (100 lb.) pedai load kPa (psi) Self-Adjusting/Self-Adjusting F/R Lining clearance Bonded or riveted Bonded Not Applicable Rivet 5176 AKEBONO BRAKE INDUSTRY Manufacturer **AK V3016 EE** Lining code ***** Front Resin Mold Including Metal Material 103x40x10 mm (4.06x1.57x0.39 in.) 105x37.5x10mm (4.13x1.48x0.39in) Pri.ar out-brd 104x40x10 mm (4.09x1.57x0.39 in.) Size Sec. or in-brd 5 mm (0.20 in.) Shoe thakessing incl Brake lining Bonded Bonded or riveted **NISSHIN SPINNING** Manufacturer NBK D9007 FF Lining code ** Rear Resin Mold Material 172.7 x 25 x 4.3 mm (6.80 x 0.98 x 0.17 in.) Pri. or out-brd 172.7 x 25 x 4.3 mm (6.80 x 0.98 x 0.17 in.) Sec. or in-brd

1.8 mm (0.07 in.)

Shoe thekass (no ing)

	0			Vehicle Line	Gan	METRO		
MVMA	Specific	atic	กร	Model Year	1993	Issued	9-92	Revised(*)
					1556		3 32	
METRIC (U.S. Custon	nary)						
	/Description Ar n/Description	nd/Or		COUPE & SEDAN				CONVERTIBLE
Tires And	Wheels (St	anda	ırd)					
	Size (service de			P145/80R12, All Se	ason			P165/65R13, All Season
	Type (bias, radi	ai, etc.)	1	Radial				
_		•	Front		,			
Tires	inflation pres- sure (cold) for		kPa (psi)	220				180
	recommended max. vehicle		Rear					
	load		kPa (psi)	220				180
	Rev/mile-at 70	km/h(4	(5mph)	985				978
	Type & materia	1		5 deg. Drop Center	Rim Conto	ours, Steel		
	Rim (size & flan	ge type)	12 x 4.00B				13 x 4 1/2 J
Wheele	Wheel offset			45				
Wheels		Type (bolt or	Stud & Lug Nut				
	Attachment	$\overline{}$	diameter	114.3				
		-	er & size	4 - M10				4-M12
	· ·	Mumb	er a size	4 - 14110			· · · · · · · · · · · · · · · · · · ·	4-14112
•	Tire and wheel			T105/80D13, 13 x 4	т			T115/70D14, 14 x 4T
Spare	Storage position location (descr			Flat Under Rear Lo	ad Floor			
Total And	Wheele (O	-41	-0	4107 100 10101				
	Wheels (O	otion	aıı	(NOT APPLICABLE)	-	_	
Tire size (service								
	ial, steel, nylon, etc							
Wheel (type &						·		
	e type and offset)	•						
Tire size (servic								
	ial, steel, nylon, etc	~!					-,	
Wheel (type &		,						
Tire size (service	e type and offset)			+				
	ial, steel, nylon, etc	.,						
				+				
Bim terze flanc	pe type and offset)			- 				
Tire size (servi								
	ial, steel, nylon, etc	:.)						
Wheel (type &		,					-	**************************************
	e type and offset)					•		
Spare tire and					·			
(if configuratio	n is different than set, describe optio or wheel location &							
Brakes -	Parking				***************************************			
Type of contro				Lever - Hand Ope	rated			
Location of co				Between Front Sea			· · · · · · · · · · · · · · · · · · ·	
Cocation of co	11 J			Rear Senice Brake				

If separate from service brakes Type(internal or external)

Orum diameter

Lining size (length x width x thickness)

Not Applicable

Vehicle Line	Geo	Geo METRO			
Model Year	1993	Issued	9-92	Revised(*)	

METRIC (U.S. Customary)

Model Code/Description And/Or CONVERTIBLE SEDAN COUPE Engine Code/Description <u>Steering</u> Standard Manual (std., opt., n.a.) Not Applicable Power (std., opt., n.a.) Not Applicable Speed-sensitive (std., opt., n.a.) Not Applicable 4-wheel steering (std., opt., n.a.) Adjustable steering wheel/ column (tilt, telescope, other) Manufacturer (std., opt., n.a.) 375 mm (14.76 in.) Wheel diameter ***
(W9) SAE J1100 Manual Not Applicable Pawer 10.0 (32.8) 10.4 (34.1) 10.0 (32.8) Out-side front Wall to wall (i. & r.) 9.2 (30.2) 9.6 (31.5) 9.2 (30.2) Turning diameter m (ft.) Curb to curb (L & r.) **Not Applicable** Wall to wall (l. & r.) in~ side rear Curb to curb (l. & r.) -1 Scrub Radius * Rack And Pinion Type Suzuki Motor Corporation Manufacturer Not Applicable Gear Ratios 18:1 3.6 No. wheel turns(stop to stop) **Not Applicable** Type (coaxial,elec.hyd.,etc.) Manufacturer Type Gear Ratios Overall Pump (drive) No, wheel turns(stop to stop) Not Applicable Location (front or rear of wheels, other) Linkage Tie Rods (one or two) Inclination at camber (deg.) 26.8 **Ball Bearing** Steering **Rubber Bushing** Lower ings (type)

Not Applicable Serrated Shaft

Steering spindle/knuckle & joint type

^{*}The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground. ** See Page 22.

AVR#A	IA Specifications Vehicle Line Geo METRO Model Year 1993 Issued 9-92 Revised(*)									
-			Model Year	1993	Issued _	9-92	Revised(*)			
METRIC (L	J.S. Custo	mary)								
lodel Code/Description And/Or ingine Code/Description		ALL								
Vheel Alig	nment									
		Caster (deg.)	3				·			
	Service	Camber (deg.)	0							
	checking	Toe-in outside	0							
rant		track - mm (in.)	Not Adjustable							
heeiat urb mass	Service	Caster (deg.)	"							
vt.)	reset*	Tomin - mm(in.)	Adjustable							
		Caster (deg.)	3 (+/-) 2							
-	Periodic M.V. in-	Camber (deg.)	0 (+/-) 1							
	spection	Tos-in - mm(in.)	0 (+/-) 2 mm							
	 	Camber (deg.)	0							
	Service checking	Toe-in outside								
ear rheel at		track - mm (in.)	2mm		· · · · · · · · · · · · · · · · · · ·					
urb mass wt.)	Service reset*	Camber (deg.)	Not Adjustable							
·		Tos-in - mm(in.)	Adjustable							
	Periodic M.V. in-	Camber (deg.)	0 (+/-) 1							
	spection	Toe-in - mm(in.) , trend set or other.	2 (+/-) 2 mm							
ipeed- meter	Type (analo std., opt.)	g, digitat,	Analog							
	Trip odome	ter (std., opt.,	Optional (Standar	Optional (Standard On Up-Level Model)						
	Std., opt.,	ngt avail.	Not Available							
		Secondary, Opto-electronic								
dead-up display	Speedome	ter Digital					<u></u>	<u> </u>		
	Turn signal	m. indicators – s, high beam, heck gauges								
	Brightness	Day/night mode, adj.								
EGR maintena			None							
	1 .		Not Applicable							
Charge	Type Warning device (light,									
	Warning di audible)	evice (light,	Tell-Tale Warning							
Temperature	أحلط السيييا	evice (light,	Tell-Tale Warning Analog Gauge Wi							
Temperature	audibie)									
Temperature indicator	Type		Analog Gauge Wi None Not Applicable	th Pointer						
Temperature indicator Oil pressure	Type Warning d	evice	Analog Gauge Wi None Not Applicable Tell-Tale Warning	th Pointer						
Temperature indicator Oil pressure indicator Fuel	Type Warning d	evice	Analog Gauge Wi None Not Applicable Tell-Tale Warning Analog Gauge W	th Pointer						
indicator	Type Warning d Type Warning d	evice	Analog Gauge Wi None Not Applicable Tell-Tale Warning Analog Gauge W None	th Pointer Light						
Temperature indicator Oil pressure indicator Fuel	Type Warning d Type Warning d Type	evice	Analog Gauge William None Not Applicable Tell-Tale Warning Analog Gauge William None Electric 2-Speed	th Pointer Light						
Temperature indicator Oil pressure indicator Fuel indicator Wind—	Type Warning d Type Warning d Type Warning d Type Warning d	evice evice evice	Analog Gauge Wi None Not Applicable Tell-Tale Warning Analog Gauge W None Electric 2-Speed Intermittent	th Pointer Light th Pointer						
Temperature indicator Oil pressure indicator Fuel indicator	audible) Type Warning d Type Warning d Type Warning d Type Type Type(star	evice evice dard)	Analog Gauge Williams None Not Applicable Tell-Tale Warning Analog Gauge Williams None Electric 2-Speed Intermittent Dr. 500 mm (19.6)	th Pointer Light th Pointer	150 mm (17.7	72 in.)				
Temperature indicator Oil pressure indicator Fuel indicator Wind—shield	audible) Type Warning d Type Warning d Type Warning d Type (star Type (opti	evice evice dard)	Analog Gauge Williams Not Applicable Tell-Tale Warning Analog Gauge Williams None Electric 2-Speed Intermittent Dr. 500 mm (19.6	th Pointer Light th Pointer						
Temperature indicator Oil pressure indicator Fuel indicator Wind—shield	audible) Type Warning d Type Warning d Type Warning d Type (star Type (star Type (spar Swept are Type (star	evice evice evice odard) onal) gth la sq cm (sq in)	Analog Gauge Williams None Not Applicable Tell-Tale Warning Analog Gauge Williams None Electric 2-Speed Intermittent Dr: 500 mm (19.6 8,161 (955) Electric, Push-Bu	th Pointer Light th Pointer						
Temperature indicator Oil pressure indicator Fuel indicator Wind-shield wiper	audible) Type Warning d Type Warning d Type (star Type (star Type (sptar Type (star Type (star Type (star Type (star Type (star	evice evice evice odard) onal) gth la sq cm (sq in)	Analog Gauge Williams Not Applicable Tell-Tale Warning Analog Gauge Williams None Electric 2-Speed Intermittent Dr. 500 mm (19.6	th Pointer Light th Pointer						

Light, Turn Signal Indicating Light, Shift-Up Indicator (M/T), Tachometer (Convertible Models) Page 15

Service & Parking Brake Failure Warning Light, Seat Belt Warning Light And Buzzer, Headlamp High Beam Indicating Light, Check Engine Indicating

None

Optional Electric Resonator

Number used

Rear window wiper, wiper/washer (std., opt., n.a.)

Hom

Other

EP-AMVM

Туре

Fluid level indicator

Vehicle Line	Geo	METRO			
Model Year	1993	Issued	9-92	Revised(*)	

METRIC (L	J.S. Customa	ary)					
Engine Code	/Description		1.0 LITER L3 (61 CID)				
			ELECTRONIC FUEL INJECTION RPO LP2				
	_						
Electrical -	- Supply Sy	stem	MANUAL TRANS.	AUTOMATIC TRAN			
Manufacturer			FURUKAWA BATTERY CO., LTD./DELCO REMY, DELCO REMY*				
	Model, std., (opt	.)	55B24R-MF (55B24S-MF)/1982035, 52361590*				
	Voltage		12				
Battery	Amps at 0 deg F	cold crnk	400				
	Minutes-reserve	capacity	70	•			
	Amps/hrs 20 h	ir. rate	45				
	Location		Left Hand Side Of Engine Compartment				
	Manufacturer		NIPPON DENSO, MITSUBISHI ELECTRIC*				
	Rating (idle/max.	rpm)	50 A (2,500 rpm), 55A (2,500 rpm)*				
Alternator	Ratio (alt. crank/	rev.)	2.36:1				
	Output at idle (rp	m, park)	18 A (750 rpm)/25A (750 rpm)*	23 A (850 rpm)			
	Optional (type &	rating)	None	31 A (850 rpm)*			
Regulator	Туре		Integral With Alternator				
Electrical -	- Starting S	vstem	1				
	Manufacturer		NIPPON DENSO, MITSUBISHI ELECTRIC*				
Mator	Current drain deg C (F)		, 200 A				
	Power rating kw	(hp)	0.8 (1.1)	1.0(1.3)1.2(1.6)*			
	Engagement type	•	Positive Shift Solenoid				
Mator Iriv e	Pinion engages from (front, rear)		Front				
Electrical -	- Ignition Sy	/stem					
	Electronic (std. c		Standard				
Гуре	Other (specify)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	High Energy Ignition				
	Manufacturer		NIPPON DENSO, MITSUBISHI ELECTRIC*				
	Model		+				
Coil		gine stopped-A	0				
	Current	pne idling – A	1.5 A				
	Manufacturer	ino tomy - A	NGK ND AC	······································			
	Model		BPR6ES-11 W20EPR-U11 R42XLS				
	Thread (mm)		14				
Spark Diug	Tightening torqu Newton meters (24.5	·			
	Gap		1.1 mm (0.04 in.)	· · · · · · · · · · · · · · · · · · ·			
	Number per cylin	der	1				
	Manufacturer		NIPPON DENSO				
Distributor	tributor Model						
Electrical							
ziectneal ·	- Suppressi	uri		<u>.</u>			
Locations & type	•		Internal Alternator Capacitor, Resistor High-Tension Ignition Cables, Resistor Spark Plugs, Igniton Coil By-Pass Capacitor, Flame Spraying Rotor Distributor				

Note: * Indicates CAMI Production

Vehicle Line Geo METRO
Model Year 1993 Issued Revised(*) 9-92

lodel Cod	le/Description		COUPE	SEDAN	CONVERTIBLE			
	-							
ody	 							
tructure			Unitized Frame					
Bumper System Front - Rear			Energy Absorption For Cover. 2. CANADA BUILT VEHIC Japan Built Vehicle. F	E - Front And Rear Bumper System med Polypropylene, Steel Member CLE - Front Bumper Construction is lear Bumper System is Composed (ene With Glass Fiber And Polypropy	And Polypropylene Same As The One For Of Energy			
Anti-Corrosion Treatment			2. Application Of Vinyl Chl	Steel In Major Body Components oride Coating To Floor Bottom & Sid n Protection Oil To Side Sill Inner St				
Body -	Miscellaneous I	nformation						
yps of finis	h (lacquer, enamel, other)		Enamel					
	Material & mass		Steel					
ood	Hinge location (front, re	ar)	Rear					
	Type (counterbalance, p		Prop					
	Release control (int., ex	rt.)	Internal And External		Steel			
	Material & mass		Not Applicable		Gas Damper Stay			
runk d	Type (counterbalance, o				GES CAIT POR CIAY			
	(elsc., mech., n.a.)		,					
	Material & mass		Steel		Not Applicable			
latch-	Type (counterbalance,	other)	Gas Dumper Stay		11			
ack lid	internal release control (elec., mech., n.a.)		Mechanical		п			
	Material & mass		Not Applicable					
	Type (drop, lift, door)		*	****				
Tailgate	Internal release control (elec., mech., n.a.)	<u>.</u>	,					
√ent windo	w control (crank,	Front	Not Applicable					
riction, piv		Rear	Pivot	Not Applicable	Not Applicable			
	pulator type	Front	X Arm					
	, flex dríve,	Rear	Not Applicable	Cable	Not Applicable			
		Front	Bucket Type, Steel Plate F	Press Frame, Urethane Mold				
est cushid a.g., 60/40,	, bucket, bench	Rear	Bench Type, Steel Wire Fr	ame, Urethane Mold	Not Applicable			
vire, foam, 	etc.)	3rd seat	Not Applicable		. 			
Sast hoat *		Front		And Press Frame, Urethane Mold	A1-4 A 11 A A			
Seat back t e.g., 60/40.	ype , bucket, s, foam, etc.)	Rear		and Press Frame, Urethane Mold	Not Applicable			
Wift	.,	3rd seat	Not Applicable		<u>.</u> .			
Frame								
Type and di unitized fra frame)	escription (separate frame me, partially—unitized	· ·	Unitized Frame					

Vehicle Line	Geo	METRO			
Model Year	1993	Issued	9-92	Revised(*)	

Model Co	de/Description		COUPE	COUPE SEDAN			
Restrair	nt System						
Seating Posi	tion		Left	Center	Right		
	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	<u></u>				
Active	J	Second seat	Lap & Shoulder Belt, ELR-ALR, Standard		Lap & Shoulder Belt, ELR-ALR, Standard		
	Standard/ optional	Third seat	,				
_	Type & description (air bag, motorized-	First seat	3-Point Fixed Belt, Std.		3-Point Fixed Belt, Standard		
Passive	2-point belt, fixed belt, knee boister, manual- lap belt)	Second seat	•				
	Standard/ optional .	Third seat					
Glass		SAE Ref No	COUPE		SEDAN		
Windshield surface area in.)	giass exposed sq. cm. (sq.	31	8,281 (1,284)		8,620 (1,336)		
Side glass e area sq. cm. total 2- side	xposed surface (aq. in.) – is	52	12,384 (1,920)		13,166 (2,041)		
Backlight gi surface area (sq. in.)	ass exposed sq. cm.	53	4,071 (631)		3,882 (602)		
Total glass a area sq. cm.	exposed surface (sq. in.)	S4	24,736 (3,834)		25.668 (3,979)		
Windshield (type/thicki	glass ness)		Laminated Glass, 4.89 mm (0.19	3 in.)	<u></u> .		
Side glass (type/thick)	ness)	-	Tempered Glass, 3.5 mm (0.14	in.)			
Backlight g (type/thick	1855)		Tempered Glass, 3.5 mm (0.14				
	no, location)		Yes - Windshield Glass, Side G	ilass, sacklight Glass			
	ched, location)		No				
Headla	*						
	- sealed beam, placeable buib, etc.	_ .	Halogen, Replaceable Bulb	***			
Shape			Rectangular (Base Model), Flus	h (Up-Level Model)			
Lo-beam ty 2C1, etc.)	rpe (2A1, 2B1,		2E1 (Base Model), Flush (Up-L	evel Model)			
Quantity			2.				
Hi-beam ty 2C1, etc.)	pe (1A1, 2A1, 1C1,		2E1 (Rese Model) Flush (Un-L	ovel Madel)			

2E1 (Base Model), Flush (Up-Level Model)

2 .

Quantity

Vehicle Line	Geo	METRO			<u> </u>
Model Year	1993	issued	9-92	Revised(*)	

METRIC (U.S. Customary)

2-DOOR CONVERTIBLE	

Seating Posit	ion		Left	Center	Right		
	T	_	3-Point Lap And		3-Point Lap And		
	Type & description (lap & shoulder belt, lap belt,	First seat	Shoulder Belt, ELR, Std.		Shoulder Belt, ELR-ALR, Std.		
Active	etc.)	Secund seat					
	Standard/	Third					
	optional ,	seat					
	Type & description (air bag, motonzed-	First seat	Supplemental Inflatable Restraint				
Passive	2-point belt, fixed belt, knee boister, manual- tap belt)	Second seat					
-	Standard/ optional	Third seat					
Glass		SAE Ref No					
Windshield surface area in.)	gizss exposed sq. cm. (sq.	S1	8.281 (1,284) 6,512 (1,010)				
Side glass e area sq. cm total 2-side	mosed surface (sq. in.) –	\$2					
Backlight gl surface area (sq. in.)	ass exposed sq. cm.	53					
Total glass area sq. cm	xposed surface . (sq. in.)	S4					
Windshield (type/thicks	glass ress)		Laminated Glass, 4.89 mm (0.19 in.)				
Side glass (type/thick)	1838)		Tempered Glass, 3.5 mm (0.14 in.)				
Backlight g (type/thick	1655)		Vinyl Film, 1.0 mm (0.04 in.)				
	(no, location)		Yes - Windshield Glass, Side Glass				
Solar contro coated/bat	ol (yes/no, ched, location)		No				
Headla	·-						
Description halogen, re	Description - seeled beam, halogen, replaceable bulb, etc.		Halogen, Replaceable Buib				
Shape			Composite				
Lo-beam to 2C1, etc.)	Lo-beam type (2A1, 2B1, 2C1, etc.)						
Quantity			2				
Hi-beam ty 2C1, etc.)	rpe (1A1, 2A1, 1C1,						
			2				

Diameter (mm.)

Height (mm.)

Diameter (mm.)

Тупе

Refrigerant control (CCOT, TVS, etc.)

Refrigerant (R - 12, R - 134a, etc.)

Cold engine lockout switch (yes / no)

Wide open throttle cutout switch (yes / no)

Heater water valve (yes / no)

Charge level (lbs. - oz.)

Receiver

Vehicle Line	Geo	METRO			<u></u>
Model Year	1993	Issued	9-92	Revised	

METRIC (U.S. Customary)

Engine Code/Description		ALL
Climate Co	ontrol System	
Air conditioning	(std., opt., man., auto.)	Optional, Manual
-	Туре	Corrugated Fin
Condenser	Eff. face area (sq. mm.)	127,400
	Fins per inch	8.5
	Туре	Single Tank Laminated
Evaporator	Eff. face area (sq. mm.)	44,120
	Fins per inch	7.3
	Material	Copper
Heater Core	Eff. face area (sq. mm.)	24,990
	Fins per inch	12.7
	Туре	Swash
	Displacement (cc)	81.6
Campressor	Manufacturer	Nippon Denso Co., Ltd.
	A/C pulley ratio	1.4
	Туре	Not Applicable
Accumulator	Height (mm.)	•

Dryer, Sight Glass, Safety Device

Thermostatic Expansion Valve

167

60

No

No

Yes

R-12

1.1 lbs.

Page 19

		O	Vehicle Line	Geo	METRO			
	MVMA	Specifications	Model Year _	1993	Issued	9-92	Revised(*)	
	METRIC (L	J.S. Customary)						
	Model Code/	Description	ALL					
	Convenier	nce Equipment (standa	rd, optional, n.a.)			<u> </u>		
	Clock (digital, ar	nalog)	Optional, Digital, In	tegral With	Radio			
	Compass / there	nometer	Not Applicable					
	Console (floor,	overhead)	Optional, Floor					
0	Defroster, elect	nc windshield	Not Applicable			<u> </u>	·- <u></u>	
	Defroster, elect	ric backlight	Optional				·	
	(integrate	Diagnostic monitor (integrated, individual)	Not Applicable					
		Instrument cluster (list instruments)	Not Applicable					
		Keyless entry Not Applicable						
	Electronic	Tripminder (avg. spd. fuel)			<u>-</u>			
		Voice alert (list items)	Not Applicable				<u> </u>	
		Other						
	Fuel door lock (remote, key, electric)	Not Applicable					
-		Auto head on/off delay, dimming	Not Applicable				_	
		Comering	19			**		
		Country (see seeding)	"					

Ħ

Manual

Remote

Convex

Optional, RH

Not Applicable

Door lock, ignition
Engine compartment

Glove compartment

Illuminated entry system (list lamps, activation)

Day / night (auto. man.)

L.H. (remote, pwr., heated)

R.H.(convex, rmt, pwr, htd)

Visor vanity (RH/LH (llum.)

Fog

Trunk

Other

Navigation system (describe)

Prkg. brake-auto release (warn. light)

Lamps

Mirrors

MVMA Specification	S
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Vehicle Line	Geo	METRO			
Model Year	1993	Issued	9-92	Revised(*)	

METRIC (U.S. Customary)

Model	Code	/Des	cription
-------	------	------	----------

	
ALL	•

	Deck lid	(release, pull down)	Not Applicable				
	Door los describe	cks (manual, auto., e system)	Automatic (Front Door Only)				
	2-4-6 way, etc.		Not Applicable				
		Rectining(R.H., L.H.)					
		Memory (R.H., L.H., preset, recline)	•				
wer uipment	Seats	Support (lumbar, hip, thigh, etc.)					
		Heated (R.H., L.H., other)	n .				
			II .				
	Side wi	ndows	. *				
	Vent windows		,				
	Rear windows		1				
	Antenna W/shiel	l (location, whip, d, power)	Left Front Pillar, Whip (Right Fender - Convertible)				
	Stan.		Antenna Only				
ladio ystems	Opt.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo With Cassette				
	Speake	r (number, location)	Optional 2: I.P. Mounted, 2: Back Door Trim (Qtr. Tie Member - Convertible)				
loof: open a liding, 'T')	ir or fixed (flip-up,	Not Applicable				
peed contro	ol device		*				
peed warn.	dev. (light,	, buzzer, etc.)	*				
achometer	(rpm)		Standard (Convertible Only)				
elephone s	/stem (des	cribe)	Not Applicable				
heft detern	ent system		Steering Lock Type				

Trailer Towing

Trainer Terring				
Towing capable	Yes / No	No ···		
Engine/transmission/axle	Std / Opt	Not Applicable		
Tow class (I, II, III)*	Std / Opt	n		
Max. gross trailer wgt. (lbs.)	Std / Opt	•		
Max. trailer tongue load (lbs.)	Std / Opt	n		
Towing package available	Yes / No	н		

^{*} Class I - 2,000 lbs.

Class II - 3,500 lbs. Class (II - 5,000 lbs.

 Vehicle Line
 Geo METRO

 Model Year
 1993
 Issued
 9-92
 Revised(*)

METRIC (U.S. Customary)

Vehicle 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 vehicle line. SAE Ref, no, refers to the definition published in SAE Recommended Practice J1100 'Motor Vehicle Dimensions,' unless otherwise specified.

		COURT	SEDAN	CONVERTIBLE
Model Code/Description		COUPE	SEDAN	CONVENTION
Width	SAE Ref. I	lo		
Tread (front)	W101	1365 (53.74)		
Fread (rear)	W102	1340 (52.76)		
/ehicle width	W103	1575 (62.00)	[1592 (62.68) With	Body Side Molding]
Body width at Sq AP (front)	W117	1575 (62.00)	[1592 (62.68) With	Body Side Molding]
/ehicle width (front doors open)	W120	3590 (141.34)	3250 (127.95)	3590 (141.34)
Vehicle width (rear doors open)	W121		2990 (117.71)	
fumble-home (deg.)	W122	22.5	22.0	22.5
Outside mirror width	W410			
				
Length				
Wheelbase	L101	2265 (89.17)	2365 (93.11)	2265 (89.17)
Vehicle length	L103	3745 (147.44)	3845 (151.38)	3745 (147.44)
Overhang (front)	L104	785 (30.91)		
Overhang (rear)	L105	695 (27.36)		
Upper structure length	L123	2618 (103.07)	2709 (106.65)	1944 (76.54)
Rear wheel C/L 'X' coordinate	L127	2810 (110.63)	2910 (114.57)	2810 (110.63)
Height ** Passenger distribution (front/rear)	PO1,2,3	2/2		2/0
Trunk/cargo load	1 "			
Vehicle height	H101	1330 (52.36)	1360 (53.54)	1320 (51.97)
Cowi point to ground	H114	871 (34.29)		
Deck point to ground	H138			991 (39.02)
Rocker panel-front to ground	H112	193 (7.60)		
Rocker panel-rear to ground	H111	205 (8.07)	207 (8.15)	205 (8.07)
Windshield slope angle (deg.)	H122	60	59	60
Backlight slope angle (deg.)	H121	51.5	44	41.3
Ground Clearance **				
Front bumper to ground	H102	205 (8.07)	200 (7.87)	205 (8.07)
Rear bumper to ground	H104	240 (9.45)	245 (9.65)	240 (9.45)
Bumper to ground front at curb mass (wt.)	H103	220 (8.66)	220 (8.66)	220 (8.66)
Bumper to ground rear at curb mass (wt.)	H105	265 (10.43)	270 (10.63)	265 (10.43)
Angle of approach (deg.)	H106	20.5	20	20.5
Angle of departure (deg.)	H107	22	22.5	22
Ramp breakover angle (deg.)	H147	17		
Axie differential to ground (front/rear)	H153			
Min. running ground clearance	H158	155 (6.10)	· · ·	
Location of min. run. grd. clear.		Catalyst Case		

^{**} All Vehicle Height And Ground Clearance Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.

EPA Loaded Vehicle Weight is the Base Vehicle Weight Plus All Coolant and Fluids Necessary For Operation Plus 100% Of The Fuel Capacity, Plus The Weight Of All Options And Accessories Which Weigh Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

All Linear Dimensions Are in Millimeters (Inches)

Vehicle Line Geo METRO

Model Year 1993 Issued 9-92 Revised(*)

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for Definitions

	_
Body	Type

COUPE	SEDAN	CONVERTIBLE	

SgRP front, 'X' coordinate	L31	1850 (72.83)		-
Effective head room	H61	960 (37.80)	986 (38.82)	1007 (39.65)
fax. eff. leg room (accelerator)	L34	1079 (42.48)		1078 (42.4)
gRP to heel point	H30	240 (9.45)		200 (7.9)
gRP to keel point	L53	882 (34.72) [645 (25.39)]		891(35.06)[734(28.88)]
ack angle (deg.)	L40	25		
tip angle (deg.)	L42	97.5 (88.7)		95 [95]
nee angle (deg.)	L44	129 (107.3)		128 [127]
ootangle (deg.)	L48	87 [140]		87 [154.5]
esign H-point front travel	L17	210 (8.27)	•	
ormal driving & riding seat track trvi.	L23	210 (8.27)		
houlder room	W3	1310 (51.57)		
lip room	W5	1298 (51.10)		
oper body opening to ground	H50	1230 (48.43)	1253 (49.33)	1207 (47.5)
tsenng wheel maximum diameter*	W9	375 (14.76)		
iteering wheel angle (deg.)	H18	25.7		25.3
ccel. Real pt. to steer, whil ontr	L11	452 (17.80)	•	459 (18.1)
ccel. heel pt. to steer, whil cotr	H17	615 (24.21)		598 (23.5)
Indepressed floor covering thickness	H67	30 (1.18)		

Front Compartment int. Dim. Are Measured With The Seating Ref. Pt.

Rear Compartment		(SgRP) 0 mm Forv	rard And 0 mm Upward	of Rearmost Position.
SgRP point couple distance	L50	660 (25.98)	735 (28.94)	Not Applicable
Effective head room	H63	928 (36.54)	965 (37.99)	H
Min. effective leg room	L51	757 (29.80)	829 (32.64)	*
SgRP (second to heel)	H31	266 (10.47)		*
Knee clearance	L48	-73 (-2.87)	-14 (-0.55)	A
Shauld er room	W4	1282 (50.47)	1285 (50.59)	#
Hip room	W6	1080 (42.52)	1085 (42.72)	*
Upper body opening to ground	H51		1262 (49.88)	я
Back angle (deg.)	L41	25		и
Hip angle (deg.)	L43	76	79.5	
Knee angle (deg.)	L45	66.5	78	
Foot angle (deg.)	L47	112	120	,
Depressed floor covering thickness	H73	20 (0.79)	-	н

Luggage Compartment

	والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج				
	Usable luggage capacity L (cu. ft.)	V1	158.9 (5.6)	175.7 (6.2)	180 (6.4)
***	Liftover height	H195	769 (30.28)		

Interior Volumes (EPA Classification)

Vehicle class	i	Subcompact		Two Seater
Interior volume index (cu. ft.)**	1	89.1	94.9	Not Applicable
Trunk / cargo index (cu. ft.)	i i	10.3	10.5	Not Applicable

^{*} See page 14.

^{**} Includes passenger and trunk / cargo index - see definition page 32.

^{***} EPA Loaded Vehicle Weight, Loading Conditions
All Linear Dimensions Are in Millimeters (Inches)

Vehicle Line	Geo	METRO			
Model Year	1993	Issued	9-92	Revised(*)	

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for Definitions

Model Code/Description	COUPE		SEDAN	
Station Wagon / MPV**	<u> </u>			
- Third Seat	SAE Ref. No.	(NOT APPLICABLE)		

- Third Seat	SAE Ref. No.	(NOT APPLICABLE)	
Seat facing direction	501		
SgRP couple distance	L85		
Shoulderroom	Was		
Hip Room	W86		
Effective leg room	L86		
Effective head room	н88	· · · · · · · · · · · · · · · · · · ·	
SgRP to heel point	H87		
Knee clearance	L87		
Back angle (deg.)	L88		
Hip angle (deg.)	L89		
Knee angle (deg.)	L90		
Foot angle (deg.)	L91		

Station Wagon / MPV** Cargo	pace (NOT APPLICABLE)
Cargo length (open front)	L200
Cargo length (open second)	L201
Cargo length (closed front)	L202
Cargo length (closed second)	L203
Cargo length at belt (front)	L204
Cargo length at belt (second)	L205
Cargo width (wheelhouse)	W201
Rear opening width at floor	W203
Opening width at belt	W204
Min. 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 cu. m. (cu. ft.)	V2
Hidden cargo vol. index cu. m. (cu. ft.)	V4
Cargo volume index-rear of 2-seat	V10
Cargo volume index	V6
Cargo Width at floor**	W500
Maximum cargo height**	HS05

Cargo length at front seatback height	L208	1102 (43.34)	1197 (47.13)
Cargo length at floor (front)	L209	1018 (40.88)	1043 (41.06)
Cargo length at second seatback height	L210	460 (18.11)	452 (17.80)
Cargo length at floor (second)	L211	600 (23.62)	625 (24.61)
Front seatback to load floor height	H197	455 (17.91)	
Second seatback to load floor height	H198	427 (16.81)	
Cargo volume index cu. m. (cu. ft.)	v ₃	0.618 (21.8)	0.653 (23.1)
Hidden cargo vol. index cu. m. (cu. ft.)	V4	0.390 (13.8)	0.413 (14.6)
Cargo volume index-rear of 2-seat	Vii	0.290 (10.2)	0.295 (10.4)

^{*} EPA Loaded Vehicle Weight, Loading Conditions

All Linear Dimensions Are in Millimeters (Inches)

MVMA-93 Page 24

^{**} MPV - Multipurpose Vehicle

		•							
		•						•	
			Vehicle Line	Gen	METRO				
MVM	A Spe	ecifications	Model Year	1993	issued	9-92	Revised(*)		
		• • • • •							
METRIC	c (U.S. (Customary)					•	·	
Model Co Description		COUPE, CONVERTIBLE					SEDAN		
Vehicle	Fiducia	el Marks					·	· · · · · · · · · · · · · · · · · · ·	
Fiducial M Number*	/lark		Def	ine Coordi	nate Location	•			
			;						
		Front Suspension Strut Upp	er Center						
Front					-				
				·					
		Burring Hole Center Of Rea	r Floor Side Membe	er At Ream	ost Bottom S	Surface			
Rear		-							
									•
NOTE: Pro						·			
3 of 4 Fiducial M Locations	lark				•				· ,
	W21**	512 (20.16)							
	L54**	569 (22.40)							
Front	H81**	525 (20.67)							- <u></u> -

755 (29.72)

738 (27.06)

463 (18.23)

159 (6.26) 413 (16.26)

390 (15.35)

3260 (128.35)

H181**

H163**

W22**

L55=

H82**

H162**

H164**

Rear

737 (29.02)

3360 (132.28)

391 (15.99)

^{*} Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

^{**} Reference - SAE Recommended Practice J1100 - Motor Vehicle Dimensions.

^{***} EPA Loaded Vehicle Weight, Loading Conditions All Linear Dimensions Are in Millimeters (Inches)

Vehicle Line	Geo N	METRO			
Model Year	1993	lssued	9-92	Revised(*)	

METRIC (U.S. Customary)

		VEHICL	E MASS	% PASS MASS DISTRIBUTION						
	CURB	MASS, kg. (I	(b.)*	SHIPPING MASS kg (lb)		PASS IN FRONT		PASS IN REAR		
Code Model	Frant	Rear	Total	kg (lb)	ETWC**	Front	Rear	Front	Rear	
Geo METRO (1MR08)	435	315	750	724					1	
2-Door Hatchback Coupe (M/T)	(957)	(693)	(1650)	(1593)	1	47	53	13	87	
(1MR67)	475	320	795	769	1		ŀ		l	
2-Door Convertible (M/T)	(1047)	(706)	(1753)	(1696)	1	47	53	<u> </u>		
(1MR68)	445	325	770	744			Ţ	1		
4-Door Hatchback Sedan (M/T)	(979)	(715)	(1694)	(1637)	1	48	52	13	87	
Geo METRO XFI (1MS08)	432	305	737	711		T				
2-Door Hatchback Coupe (M/T)	(950)	(671)	(1621)	(1564)	Н	47	53	13	87	
2-D001 Hatchback Coupe (M71)	(555)	(0.1)	1,100,7							
		-	 		 	 	 	-		
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^{*} Reference – SAE J1100 Motor vehicle dimensions, curb weight definition.
** ETWC – Equivalent Test Weight Class – basis for U.S. Environmental Protection Agency emission certifications.
Refer to ETWC code legend below for test weight class.

A :	•	1000 1125	j	=	2000 2125	Q	-	3000 3125 3250	Y Z	4000 4250 4500	*** Shipping Mass (weight) = Curb Weight Less: 26 (57)
CDEFGH	- ·	1250 1375 1500 1625 1750 1875	KLMNOP	:	2250 2375 2500 2625 2750 2875	STUV VV	* * * * * * * * * * * * * * * * * * * *	3375 3500 3625	BI CC DI EI	4750 5000	

Vehicle Line Geo METRO

Model Year 1993 Issued 9-92 Revised(*)

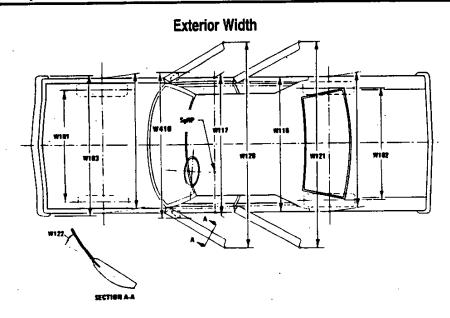
METRIC (U.S. Customary)

		Optional Equipment Differential Mass (weight						
•			MASS, kg. (I	b.)				
Code	Equipment	Front	Rear	Total	Remarks Restrictions, Requirements			
B37	Floor Piece Mat	2.0	2.0	4.0				
		(4.4)	(4.4)	(8.8)				
		()	(1.1)	(5.5)				
C25	Rear Window Washer & Wiper	0	1.3	1.3				
	<u></u>	(0)	(2.9)	(2.9)				
C49	Air Conditioning	20.3	-2.0	18.3				
		(44.8)	(-4.4)	(40.3)				
D35	OSRV Mirror (RH)	0.6	0.5	1.1				
	CONTRIBUTION (1311)	(1.3)	(1.1)	(2.4)				
MX1	Automatic Transmission	26.0	-3.0	23.0				
		(57.3)	(-6.6)	(50.7)				
PB2	Full Wheel Cover	0.77	0.77	1.54				
		(1.69)	(1.69)	(3.39)				
UM6	AM/FM Stereo W/Cassette Deck	2.0	0.7	2.7				
		(4.4)	(1.5)	(6.0)				
UM7	Radio - AM/FM Stereo	2.0	0.7	2.7				
	······································	(4.4)	(1.5)	(6.0)				
U66	Radio Speakers - Dual Rear	0.9	0.9	1.8	· · · · · · · · · · · · · · · · · · ·			
	nauto Speakers - Duai neai	(2.0)	(2.0)	(4.0)				
	<u> </u>							
VH4	Front and Rear Mud Guard	0.5	0.7	1.2				
		(1.08)	(1.5)	(2.6)				
					·			
	•				***************************************			

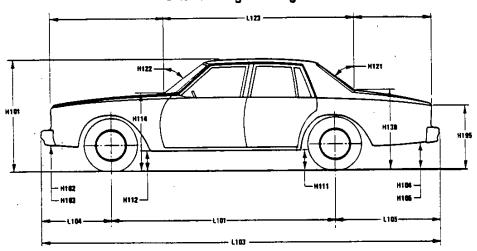
^{&#}x27;Also see Engine – General Section for dressed engine mass (weight)

METRIC (U.S. Customary)

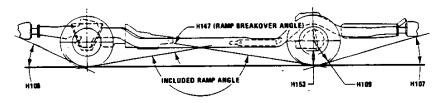
Exterior Vehicle And Body Dimensions - Key Sheet



Exterior Length & Height



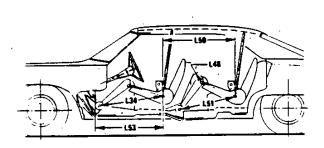
Exterior Ground Clearance

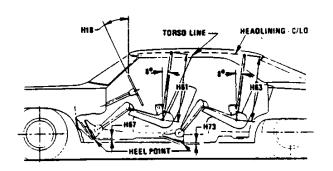


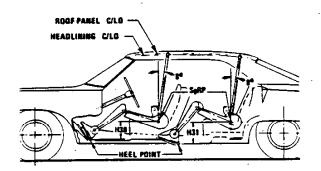
MVMA Specifications Form

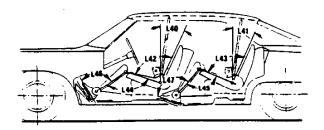
METRIC (U.S. Customary)

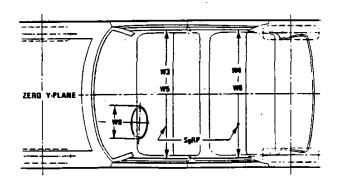
Interior Vehicle And Body Dimensions — Key Sheet

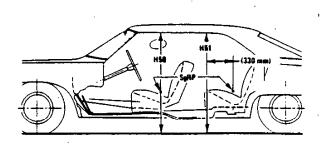






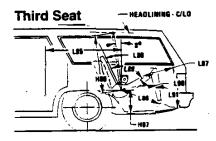


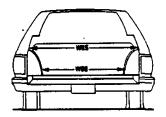




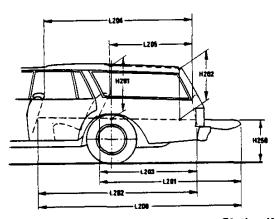
METRIC (U.S. Customary)

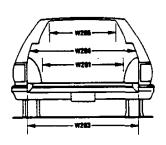
Interior Vehicle And Body Dimensions - Key Sheet



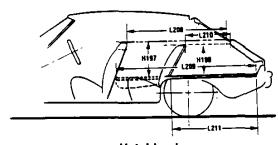


Cargo Space

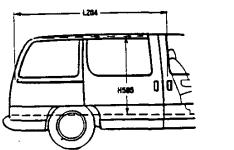




Station Wagon









Multipurpose Vehicle

METRIC (U.S. Customary)

Exterior Vehicle 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, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations,".

Width Dimensions

TREAD - FRONT. The dimension measured between the tire

centerlines at the ground.
TREAD - REAR. The dimension measured between the tire W102 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.

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

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.

OUTSIDE MIRROR WIDTH: The dimension between the

widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

Length Dimensions

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.

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.

OVERHAND - 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.

OVERHANG – REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual L105 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.

UPPER STRUCTURE LENGTH. The dimension measured L123 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 the midpoint of the distance between the rear axle centerlines.

Height Dimensions

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

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.

ROCKER PANEL - FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom

of the rocker panels, excluding flanges, to ground. COWL POINT TO GROUND. Measured at zero "Y" plane.

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

zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO. WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc 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.) and crawn from the lower DLO to the interesting series on long drawn from the lower DLO to the intersecting point on the windshield.

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

STATIC LOAD - TIRE RADIUS - REAR. Specified by the manufacturer in accordance with composite TIRE SECTION H109 STANDARD.

Ground Clearance Dimensions

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

FRONTBUMPERTO GROUND - CURB MASS (WT.). Meas-H103 ured in the same manner as H102.

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

REAR BUMPER TO GROUND - CURB MASS (WT.). Meas-H105 ured in the same manner as H104.

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

H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire

to ground. The limiting component shall be designated. RAMP BREAKOVER ANGLE. The angle measured be-H147 tween two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.

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

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

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet **Dimensions Definitions**

Glass Areas

- Windshield area.
- Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- Backlight areas.
- Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

Fiducial Mark - Number 1

- "X" coordinate. 1.54
- "Y" coordinate. W21
- "Z" coordinate. HA1
- Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground. H161
- H₁₆₃ Fiduciai Mark - Number 2
- 'X" coordinate. 1.55
- "Y" coordinate. W22
- WR2
- Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground. H₁₆₂
- H164

Front Compartment Dimensions

- ACCELERATOR HEEL POINT TO STEERING WHEEL L11 CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering
- DESIGNH-POINT FRONTTRAVEL The dimension meas-L17 ured horizontally between the design H-point-front in the foremost and rearmost seat track positions. (See SAE
- NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. L23 The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track to the foremost sear position, but not window sear their travel used for purposes other than normal driving and riding positions. (See SAE J1100).

 SgRP – FRONT. "X" COORDINATED.

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

 BACK ANGLE FRONT. The angle measured between a vertical line from the SgRP front and the torso line. If the seatback is adjustable, use the normal driving and riding
- position specified by the manufacturer.
 HIP ANGLE FRONT. The angle measured between torso L-42 line and thigh centerline.
- KNEE ANGLE FRONT. The angle measured between thigh L44 centerline and lower leg centerline measured on the right
- FOOT ANGLE FRONT. The angle measured between the L46 lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAF J826.
- SgRP FRONT TO HEEL. The dimension measured horizon-L53 SHOULDERROOM – FRONT. The minimum dimension meas-
- W3 ured laterally between the trimmed surfaces on the "X" plane through the SgRP - front at height between the belt line and 254 mm (10.0 in.) above the SgRP - front, excluding the door assist strap and attaching parts.

- HIP ROOM-FRONT. The minimum dimension measured W5 laterally between the trimmed surfaces on the "X" plane through the SgRP - front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP - front and 76 mm (3.0 in.) fore and aft of the SgRP - front.
- STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. W9 Define if other than round.
- ACCELERATOR HEEL POINT TO THE STEERING WHEEL **H7** CENTER. The dimension measured vertically from the AHP-front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- STEERING WHEEL ANGLE. The angle measured from a H18
- vertical to the surface plane of the steering wheel. SgRP FRONTTO HEEL. The dimension measured vertically H30
- from the SgRP front to the accelerator heel point.

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

 EFFECTIVE HEAD ROOM FRONT. The dimension measured to the ground on the SgRP front the SgR H50
- **H61** ured along a line 8 deg. rear of vertical from the SgRP - front
- to the headlining plus 102 mm (4.0in.).

 FLOOR COVERING THICKNESS UNDEPRESSED —
 FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody **H67** sheet metal at the accelerator heel point.

Rear Compartment Dimensions

- BACK ANGLE SECOND. The angle measured between a
- vertical line through the SgRP second and the torso line. HIP ANGLE SECOND. The angle measured between torso L43 line and thigh centerline.
- KNEE ANGLE SECOND. The angle measured between L45 thigh centerline and lower leg centerline.
- FOOT ANGLE SECOND. The angle measured between the L47 lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- KNEE CLEARANCE SECOND. The minimum dimension L48 measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- SgRP COUPLE DISTANCE SECOND. The dimension meas-L50 ured horizontally from the driver SgRP-front to the SaRP - second.
- MINIMUM EFFECTIVE LEG ROOM-SECOND. The di-L51 mension measured along a line from the ankle pivot center to the SgRP - second plus 254 mm (10.0 in.).
- SHOULDER ROOM SECOND. The minimum dimension **W4** measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP - second, excluding the door assist straps and attaching parts.
- HIP ROOM SECOND. Measured in the same manner as W6
- H31 SGRP - SECOND TO HEEL. The dimension measured vertically from the SgRP - second to the two dimensional device heel point on the depressed floor covering.
- UPPER BODY OPENING TO GROUND SECOND. The H51 dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP - second.
- EFFECTIVE HEAD ROOM SECOND. The dimension meas-H63 ured along a line 8 deg. rear of vertical from the SgRP to the
- headlining, plus 102 mm (4.0 in.). FLOOR COVERING DEPRESSED SECOND. The dimension **H73** measured vertically from the heel point to the underbody sheet metal.

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

Luggage Compartment Dimensions

V1 USABLE LUGGAGE CAPACITY – Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a,

interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The Interior Volume Index estimates the space in a car. It is based on four measurements — head room, shoulder room, hip room, and leg room — for the front and rear seats, plus trunk capacity.

The Trunk/Cargo Index is an estimate of the size of the trunk/cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat.

Station Wagon / MPV - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE THIRD. The dimension measured horizontally from the SgRP second to the SgRP third.
- L86 EFFECTIVELEGROOM THIRD. The dimension measured along a line from the ankle pivot center to the SgRP third plus 254 mm (10.0 in.).
- L87 KNEECLEARANCE THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE THIRD. Measured in the same manner as L41.
- L89 HIP ANGLE THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE THIRD. Measured in the same manner as L45
- L91 FOOT ANGLE THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM THIRD. Measured in the same manner as W4.
- W86 HIP ROOM THIRD. Measured in the same manner as W5.
 EFFECTIVE HEAD ROOM THIRD. The dimension, measured along a line 6 deg. from the SgRP third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 SgRP THIRD TO HEEL POINT.
- SD1 SEAT FACING DIRECTION THIRD.

Station Wagon / MPV - Cargo Space Dimensions

- L200 CARGO LENGTH OPEN FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH OPEN SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

- L202 CARGOLENGTH CLOSED FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH CLOSED SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the neight of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.
- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting inferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum mension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- W500 CARGO WIDTH AT FLOOR. The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- H505 MAXIMUM CARGO HEIGHT. The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.