

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1991

Manufacturer SUZUKI MOTOR CO., LTD.	Vehicle Line Geo METRO	
Mailing Address CHEVROLET-PONTIAC-CANADA GROUP ENGINEERING CENTER GENERAL MOTORS CORPORATION 30003 VAN DYKE WARREN, MICHIGAN 48090-9060	Issued JUNE, 1990	Revised SEPTEMBER, 1990

Direct questions concerning these specifications to the manufacturer listed above.

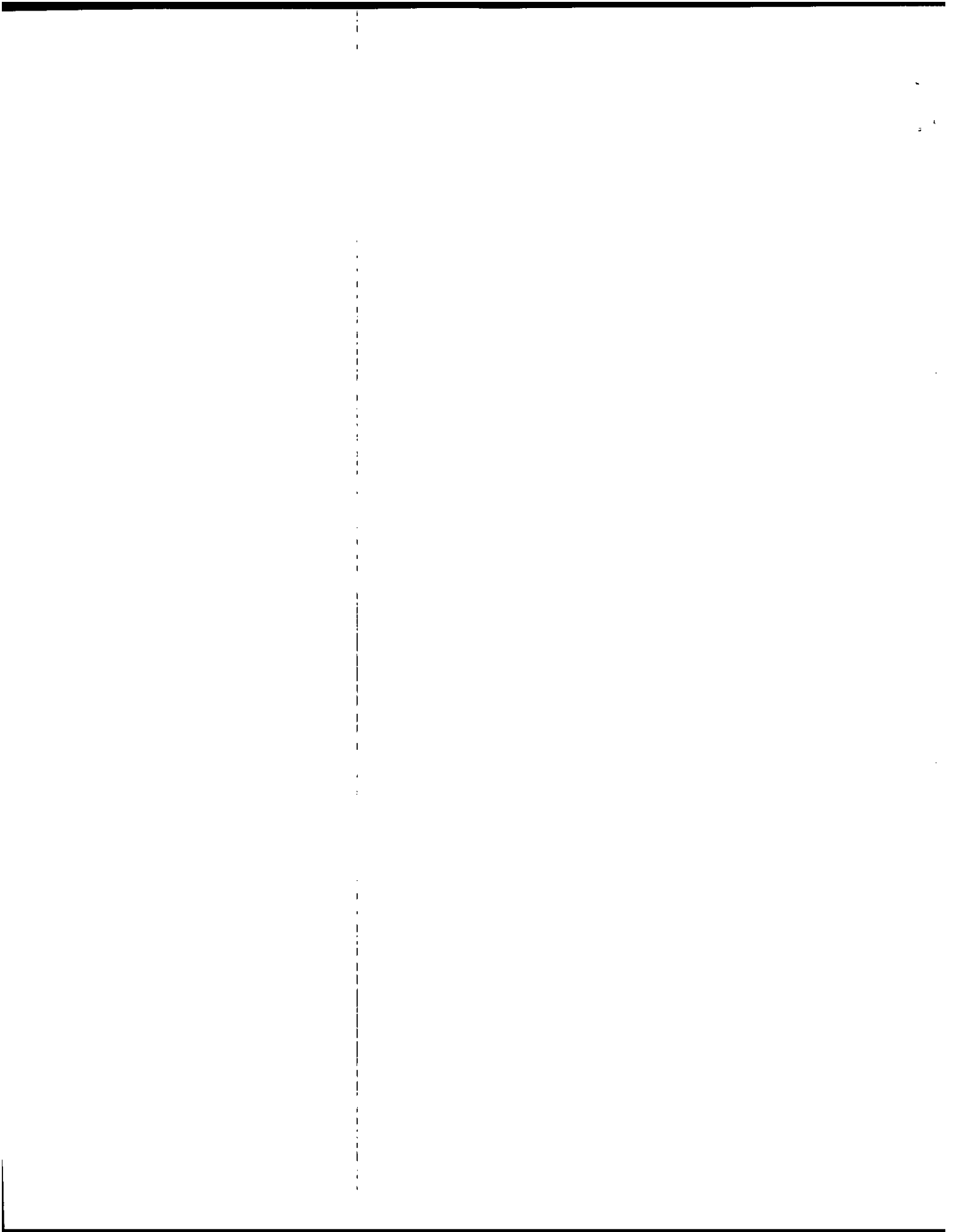
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The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.



Motor Vehicle Manufacturers Association
of the United States, Inc.

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MVMA Specifications

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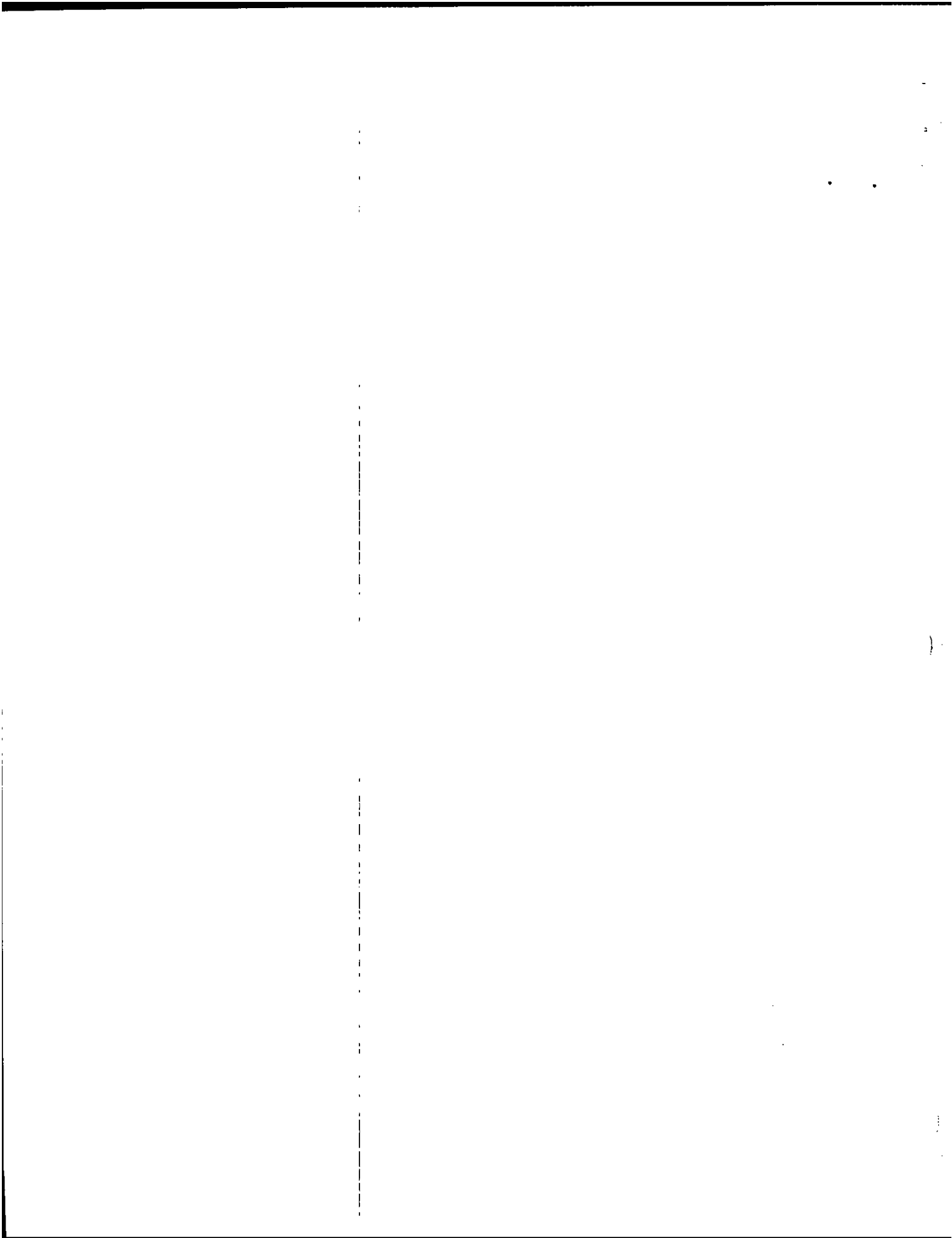
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NOTE:

1. 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) specs. are in kilograms (pounds).
3. 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.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

FORM MVMA-91



MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) 9-90

METRIC (U.S. Customary)

Vehicle Origin

Design & development (company)	Suzuki Motor Co., Ltd.
Where built (country)	Japan/Canada
Authorized U.S. Sales marketing representative	Chevrolet/Geo

o Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Make, Vehicle Models, Series, Body Type (Mfg's Model Code)	No. of Designated Seating Positions (Frnt/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
Geo METRO				
2-Door Hatchback Coupe (FWD)	1MR08	2/2	40 (88)	45/50
2-Door Convertible (FWD)	1MR67	2/0	40 (88)	41/46
4-Door Hatchback Sedan (FWD)	1MR68	2/2	40 (88)	45/50
Geo METRO XFI				
2-Door Hatchback Coupe (FWD)	1MS08	2/2	40 (88)	53/58

* FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive

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METRIC (U.S. Customary) Power Teams

SAE J1349 Net bhp (brspwr) and Net Torque corrected to 77 deg. F / 25 deg. C and 29.61 in. Hg/100 kPA atmos. press.

		A	B	C*	D	
E N G I N E	Engine Code	LP2	LP2	LP2	LP2	
	Displacement Liters (cu. in.)	1.0 (61)	1.0 (61)	1.0 (61)	1.0 (61)	
	Induction syste (FI, Carb, etc.)	Electronic Fuel Injection	Electronic Fuel Injection	Electronic Fuel Injection	Electronic Fuel Injection	
	Compression ratio	9.5:1	9.5:1	9.5:1	9.5:1	
	SAE Net at RPM	Power kW(bhp)	41 (55) @ 5700	41 (55) @ 5700	36 (49) @ 4700	41 (55) @ 5700
		Torque Newton me (lb.ft.)	79 (58) @ 3300	79 (58) @ 3300	79 (58) @ 3300	79 (58) @ 3300
	Exhaust Single, dual	Single	Single	Single	Single	
T R A N S	Transmission/ Transaxle	Manual 5-Speed	Auto 3-Speed	Manual 5-Speed	Manual 5-Speed	
	Axle Ratio (std. first)	4.10	3.87	3.79	4.39	

* Fuel Economy Version

Series Availability

Power Teams (A - B - C - D)

Model	Code	Standard	Optional
Geo METRO			
2-Dr. Hatchback Coupe	1MR08	A	B
2-Dr. Convertible	1MR67	D	B
4-Dr. Hatchback Sedan	1MR68	A	B
Geo METRO XFi			
2-Dr. Hatchback Coupe	1MS08	C	-

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METRIC (U.S. Customary)

Engine Description
 Engine Code

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

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hami, wedge, pre-chamber, etc.)	Inline, Front, SOHC Transverse	
Manufacturer	Suzuki	
No. of cylinders	3	
Bore	74 mm (2.91 in.)	
Stroke	77 mm (3.03 in.)	
Bore spacing (C/L to C/L)	84 mm (3.31 in.)	
Cyl block matl & mass kg(lbs.) (machined)	Aluminum Alloy, 11.85 (26.12)	
Cylinder block deck height	186.8 mm (7.35 in.)	
Cylinder block length	288 mm (11.34 in.)	
Deck clearance (minimum) (above or below block)	0.4 mm (0.02 in.), Above	
Cyl. head material & mass kg (lbs.)	Aluminum Alloy, 5.12 (11.29)	
Cylinder head volume cu. cm. (cu. in.)	1,896	
Cylinder liner material	Cast Iron	
Head gasket thickness (compressed)	1.2 mm (0.05 in.)	
Minimum combustion chamber total volume cu. cm. (cu. in.)	38.96	
Cyl. no. system (front to rear)**	L. Bank	1-2-3
	R. Bank	---
Firing order	1-3-2	
Intake manifold matl & mass kg(lbs.)**	Aluminum Alloy, 1.66 (3.66)	
Exh. manifold matl & mass kg (lbs.)***	Cast Iron, 3.37 (7.43)	
Knock sensor (yes/no)	No	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) / 2	86 + Octane	
Engine mounts	Quantity	3
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Rubber, Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	None
Total dressed engine mass (wt) dry***	MT: 61.0 (134.5), AT: 56.5 (124.6)	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum Alloy, 220 g. (7.76 oz.) [230 g. (8.22 oz.) XFI Models]
--	---

Engine Camshaft

Location	Cylinder Head	
Material & mass kg (weight, lbs.)	Cast Iron, 1.24 (2.73)	
Drive type	Chain/belt	Belt
	Width/pitch	19.1/9.525 mm (.75 in.)

*Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

**Finished state.

***Dressed engine mass (weight) includes the following:

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Engine - Valve System

Hydraulic lifters (std., opt., n.a.)		Standard
Valves	Number intake/exhaust	3/3
	Head O.D. intake/exhaust	35/28 mm (1.38/1.10 in.)

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Forged Steel, 0.415 (0.915), [0.36 (0.794) XFi Models]
Length(axes centerline 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 Models]	
End thrust taken by bearing (no.)	2	
Length & number of main bearings	18 mm (0.71 in.) x 4	
Seal (material, one, two piece design, etc.)	Front	One Piece
	Rear	One Piece

Engine - Lubrication System

Normal oil pressure kPa(psi) @ eng rpm	333 (392) @ 4,000
Type oil intake (floating, stationary)	Stationary
Oil filter sys. (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.1 (3.3)

Engine - Diesel Information

(NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0 deg. F		
Injector Nozzle	Type	
	Opening pressure kPa(psi)	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel inj. pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler-type (oil to engine coolant; oil to ambient air)		
Oil filter		

Engine - Intake System

(NOT APPLICABLE)

Turbo charger - manufacturer		
Super charger - manufacturer		
Intercooler		

* Finished State

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Engine Code	ELECTRONIC FUEL INJECTION RPO LP2

Engine - Cooling System		MANUAL TRANS.	AUTOMATIC TRANS.
Coolant recovery system (std, opt, n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle	
Radiator cap relief valve pressure kPa (psi)		88.3 (12.8)	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open @ deg's C(F)	88 (190), [92 (188) XFI Models]	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	15	
	Number of pumps	1	
	Drive (V-belt, other)	V Ribbed Belt	
	Bearing type	Ball & Ball	
	Impeller material	Steel	
Housing material		Aluminum Alloy	
By-pass recirculation type (inter., ext.)		External	
Cooling system capacity	With heater - L (qt.)	3.9 (4.1)	4.0 (4.2)
	With air conditioner-L(qt.)	3.9 (4.1)	4.0 (4.2)
	Opt. equip. specify-L(qt.)	---	
Water jackets full length of cyl(yes,no)		Yes	
Water all around cylinder (yes, no)		Yes	
Water jackets open at head face (yes,no)		Yes	
Radiator core	Std., A/C, HD	Standard	
	Type (cross-flow, etc.)	Vertical - Flow	
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube	
	Matl., 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 tank material		Plastic	
Fan	Std., elec., opt.	Standard, Electric	
	Number of blades & type (flex, solid, material)	4, Solid, Plastic	
	Diameter & projected width	300 mm (11.81 in.)	
	Ratio(fan to crankshft.rev.)	Not Applicable	
	Fan cutout type	--	
	Drive type (direct, remote)	Direct	
	RPM at idle (elec.)	2,100 rpm	
	Motor rating(wattage)(elec)	80	
	Motor switch (type & location/elec.)	Bimetal Type, On Thermostat Case	
	Switch point (temp.,/ pressure/elec.)	ON/OFF: 98/93 (208/199)	102/97 (216/207)
Fan shroud (material)		Plastic	Steel

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Engine - Fuel System (See supplemental page for details of Fuel Inj, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		NIPPON DENSO CO. LTD.
Carburetor no. of barrels		Not Applicable
Idle A/F mix.		14.6
Fuel Injection	Point of inj. (no.)	Intake Manifold (1)
	Constant, pulse, flow	Not Applicable
	Control (elec., mech.)	Electronic
	Sys. press. kPa (psi)	180 (26)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	800 (Neutral), [700 (Neutral) XFI Models]
	Automatic	850 (Neutral)
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water (Coolant)
Air cleaner type		Replaceable Nonwoven Fabric Element, Single Snorkel
Fuel filter (type/location)		Paper/Fuel Tank Side
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Tank
	Press. range kPa (psi)	180 (26)
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	50 @ 180 (13.2 @ 26)
Fuel Tank		
Capacity refill L (gallons)		40 (10.6)
Location (describe)		Under Floor - Rear
Attachment		Bolt
Material & Mass kg (weight lbs.)		Steel, 8.6 (18.9)
Filler pipe	Location & material	Left Side Rear Quarter Panel, Steel
	Connection to tank	Kevlar Reinforced Rubber Hose
Fuel line (material)		Steel
Fuel hose (material)		FKM/CHC/CHC
Return line (material)		Steel
Vapor line (material)		Steel
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
	Separate fill	"

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Vehicle Emission Control

		FEDERAL	CALIFORNIA & FUEL ECONOMY VERSION	
Exhaust Emission Control	Type (air injection, engine modifications, other)	Feedback Fuel Injection + 3 Way Catalyst	Feedback Fuel Injection + 3 Way Catalyst + EGR	
	Air injection	Pump or pulse	Not Applicable	Not Applicable
		Driven by	"	"
		Air distribution (head, manifold, etc.)	"	"
		Point of entry	"	"
	Exhaust Gas Recirculation	Type (controlled flow, open on/off, other)	Not Applicable	Backpressure Controlled
		Exhaust source	"	Manifold
	Catalytic Converter	Type	Single Bed	Single Bed
		Number of	1	1
		Location(s)	Under Floor	Under Floor
Volume L (cu.in)		0.95 (58.0)	0.95 (58.0)	
Substrate type		Monolith	Monolith	
Noble metal type		Platinum (Pt), Rhodium (Rh)	Platinum (Pt), Rhodium (Rh)	
Noble metal concentration (g/cu. cm.)				
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)	Induction System	Induction System	
	Energy source (manifold vacuum, carburetor, other)	Manifold Vacuum	Manifold Vacuum	
	Discharges to (intake manifold, other)	Intake Manifold	Intake Manifold	
	Air int.(breather cap, other)	Air Cleaner	Air Cleaner	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	
		Carburetor	---	
	Vapor storage provision	Canister	Canister	
Electronic System	Closed loop (yes/no)	Yes	Yes	
	Open loop (yes/no)	No	No	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs.)		1. Straight Thru.
Resonator no. & type		1. Straight Thru.
Exhaust pipe	Branch o.d., wall thickness	Not Applicable
	Main o.d., wall thickness	48.6-1.6/38.1-1.2 mm
	Mati. & Mass kg (wght.lbs.)	Inner: Stainless Steel, Outer: Aluminum Coated Steel
Intermediate pipe	o.d. & wall thickness	45.0-1.6/35.0-1.2 mm
	Mati. & Mass kg (wght.lbs.)	Inner: Stainless Steel, Outer: Aluminum Coated Steel
Tail pipe	o.d. & wall thickness	38.1-1.2 mm
	Mati. & Mass kg (wght.lbs.)	Aluminum Coated Steel

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Transmissions/Transaxle (Std., Opt., N.A.)

Manual 3-speed (manufacturer/country)	Not Applicable
Manual 4-speed (manufacturer/country)	"
Manual 5-speed (manufacturer/country)	SUZUKI MOTOR CO. LTD./JAPAN
Automatic (manufacturer/country)	AISIN SEIKI/JAPAN
Auto. overdrive (manufacturer/country)	Not Applicable

Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.42
	2nd	1.89
	3rd	1.28
	4th	0.91
	5th	0.76
	Reverse	3.27
Synchronous meshing (specify gears)		All Forward Gears
Shift lever location		Floor Mounted
Trans. case mat'l. & mass kg (lbs)*		Aluminum Die-Cast, 7.7 (16.9)
Lubricant	Capacity L (pt.)	2.4 (5.1)
	Type recommended	Hypord Gear Oil

Clutch (Manual Transmission)

Clutch manufacturer		F.C.C. Co., LTD.
Clutch type (dry, wet; single, multiple disc)		Dry, Single
Linkage (hyd., cable, rod, lever, other)		Cable
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	78 (17.5)
	Released	50 (11.2)
Assist (spring, power/percent, nominal)		Nominal
Type pressure plate springs		Diaphragm
Total spring load (nominal) N (lbs.)		2,550 (573.3)
Clutch facing	Facing mfr. & mat'l. coding	F.C.C. Co., LTD.
	Facing mat'l. & construction	Semi-Mold
	Rivets per facing	16
	Outside x inside dia. (nom.)	170 x 110 mm (6.69 x 4.33 in.)
	Total eff. area sq cm (sq in)	132 (20.5)
	Thickness (pressure plate side/fly wheel side)	3.0/3.0 mm (0.12/0.12 in.)
	Rivet depth (pressure plate side/fly wheel side)	Min. 0.9/0.9 mm (0.04/0.04 in.)
	Engagement cushion method	Separate Cushion Type
Release bearing type & method lub.		Automatic Center Adjusting Type With Grease Lubrication
Torsional damping method, springs, hysteresis		Springs

* Includes shift linkage, lubricant, and clutch housing. If other specify.

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Automatic Transmission/Transaxle

Trade Name		3-Speed Automatic
Type and special features (describe)		Torque Converter With Planetary Gears
Gear selector	Location (column, floor, other)	Floor Mounted On Console
	Ltr./No. designation (e.g. PRND21)	P-R-N-D-2-L
	Shift interlock (yes, no, describe)	Yes
Gear ratios	1st	2.81
	2nd	1.55
	3rd	1.00
	4th	Not Applicable
	Reverse	2.30
Max. upshift speed - drive range km/h (mph)		1 - 2: 52 (32.3) 2 - 3: 87 (60.3)
Max. kickdown speed - drive range km/h (mph)		2 - 1: 37 (23.0) 3 - 2: 82 (50.9)
Min. overdrive speed km/h (mph)		Not Applicable
Torque converter	Number of elements	3
	Max. ratio at stall	2.1
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	210 mm (8.27 in.)
	Capacity factor "K"	1.2 x 10 ⁻⁶
Lubricant	Capacity refill L (pt.)	4.9 (10.4)
	Type recommended	DEXRON
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral With Radiator
Trans. mass kg. (lbs) & case matl.**		Aluminum Die-Cast, 51 (112.4)

All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

Desc. & type (part-time, full-time, 2/4 shift while moving, mech., elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% frt/rear)	

* Input speed / square root of torque.
 ** Dry weight including torque converter. If other, specify.

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

Effec. final drv. ratio (or overall top gear ratio)		Final Gear - 3.94
Transr ratio and method(chain,gear,etc)		Not Available
Front drive unit	Ring gear o.d.	186.98 mm (7.36 in.)
	No. of teeth	19
	Pinion	75

Front Drive Unit

Description (integral to trans., etc.)		Front Differential With Helical Gears And Ball Bearing
Limited slip differential (type)		None
Drive pinion	Type	Helical Gear
	Offset	Not Applicable
No. of differential pinions		2
Pinion/differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Not Applicable
Driving wheel bearing (type)		Ball Bearing
Lubricant	Capacity L (pt.)	Not Applicable
	Type recommended	Automatic Transmission Fluid

Axle Shafts - Front Wheel Drive

Manufacturer and number used		NTN TOYO BEARING CO., LTD., 2	
Type (straight, solid bar, tubular, etc.)	Left	Solid Bar	
	Right	Solid Bar	
Outer diam. x length* x wall thickness	Manual transaxle	Left	22 x 455.7 (0.87 x 17.94 in.)
		Right	22 x 546.5 (0.87 x 21.52 in.)
	Automatic transaxle	Left	19.4 x 410.1 mm (0.76 x 16.15 in.)
		Right	19.4 x 591.6 mm (0.76 x 23.29 in.)
	Optional transaxle	Left	None
		Right	None
Slip yoke	Type	None	
	Number of teeth	"	
	Spline o.d.	"	
Universal joints	Make and mfg. no.	Inner	NTN TOYO BEARING CO., LTD.
		Outer	"
	Number used	4	
	Type, size, plunge	Inner	Tripod, TJ75
		Outer	Rzeppa, BJ75
	Attach (u-bolt, clamp, etc.)		Serration
	Bearing	Type (plain, anti-friction)	Anti-Friction
Lubrication (fitting, prepack)		Prepacked	
Drive taken through (torque tube, arms or springs)		Lower - Control Arm, Upper - McPherson Strut	
Torque taken through (torque tube, arms or springs)		Engine Mounting System	

* Centerline to centerline of universal joints, or to centerline of attachment.

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METRIC (U.S. Customary)

Body Type And/Or

Engine Displacement

COUPE

SEDAN

CONVERTIBLE

Suspension - General Including Electronic Controls

Car leveling	Std./opt./not avail.	Not	
	Manual/automatic control	Applicable	
	Type (air/hydraulic)		
	Primary/assist spring		
	Rear only/4 wheel leveling		
	Single/dual rate spring		
	Single/dual ride heights		
Provision for jacking			
Shock absorber damping controls	Standard/option/not avail.	Not	
	Manual/automatic control	Applicable	
	Number of damping rates		
	Type of actuation (manual/electric motor/air, etc.)		
	s e n s o r s	Lateral acceleration	
		Deceleration	
		Acceleration	
Road surface			
Shock absorber (front & rear)	Type	Front: McPherson, Rear: McPherson, Double Acting Hydraulic	
	Make	Front: SHOWA, Rear: TOKICO	
	Piston diameter	Front: 25 mm (0.984 in.), Rear: 25 mm (0.984 in.)	
	Rod diameter	Front: 18 mm (0.71 in.), Rear: 18 mm (0.71 in.)	

Suspension - Front

Type and description		McPherson Strut With Coil Spring		
Travel*	Full jounce	100 mm (3.94 in.)		
	Full rebound	50 mm (1.97 in.)		
Spring	Type (coil, leaf, other & matl)	Coil, Steel		
	Insulators (type & matl)	Rubber		
	Size (coil design height & i.d.)	301 x 125.6 mm	309.5 X 125.5 mm	
	Spring rate N/mm (lb./in.)	17.2		
	Rate @ wheel N/mm (lb./in.)	17.2		
Stabilizer	Type (link, linkless, frmless)	Not Applicable		
	Material & bar diameter	Not Applicable		

Suspension - Rear

Type and description		McPherson Strut, Separate Coil Spring		
Travel*	Full jounce	120 mm (4.72 in.)		
	Full rebound	50 mm (1.97 in.)		
Spring	Type (coil, leaf, other & matl)	Coil, SUP 7 or SUP 12V		
	Size (length x width, coil design height & i.d.)	258 x 95 mm	262 x 95 mm	258 x 95 mm
	Spring rate [N/mm (lb/in)]	45.1 (257.5)		
	Rate @ wheel [N/mm (lb/in)]	17.6 (100.5)		
	Insulators/type & material)	Rubber		
	H leaf	No. of leaves	Not Applicable	
Shackle (comp or tens)		"		
Stabilizer	Type (link, linkless, frmless)	None		
	Material & bar diameter	None		
Track bar (type)		"		

* Define load condition:

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) 9-90

METRIC (U.S. Customary)

Body Type And/Or

COUPE & SEDAN

CONVERTIBLE

Engine Displacement

Brakes - Service

Description		Hydraulic, Front - Floating Caliper Type. Rear - Leading Trailing Shoe Type		
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	AISIN SEIKI, Disc		
	Rear (disc or drum)	NISHINBO, Drum		
Valving type(prop, delay, metering, other)		Proportion		
Power brake (std., opt., n.a.)		Standard		
Booster type(rmt, intgrl, vac., hyd., etc.)		Vacuum		
Vacuum	Source (inline, pump, etc.)	Inline (Intake Manifold)		
	Reservoir (volume cu. in.)	Not Applicable		
	Pump-type	"		
Traction Control	Operational speed range	"		
	Type engine intervention	"		
Anti-lock device	Front/rear (std., opt., n.a.)	"		
	Manufacturer	"		
	Type (electronic, mech.)	"		
	Number sensors or circuits	"		
	No. anti-lock 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)	
Swept area sq. cm. (sq. in.)**(F/R)		869/282 (134.7/43.7)	902/282 (139.8/43.7)	
Rotor	Outer working diameter	F/R	213/---mm (8.39 in.)	229/---mm (9.02 in.)
	Inner working diameter	F/R	130/--- mm (5.12 in.)	154/---mm (6.06 in.)
	Thickness	F/R	10/--- mm (0.39 in.)	17/---mm (0.67 in.)
	Matl & type (vented/sld)	F/R	Cast Iron, Solid	Cast Iron, Vented
Drum	Diameter & width	F/R	---/180 x 25 mm (---/7.09 x 0.98 in.)	
	Type and material	F/R	---/Cast Iron	
Wheel cylinder bore		48.1/15.8 mm (1.89/0.62 in.)		
Master cylinder	Bore/stroke	F/R	20.6/28.5 mm (0.81/1.12 in.)	
Pedal arc ratio		4.1 : 1		
Line pressure at 445 N (100 lb.) pedal load kPa (psi)		---		
Lining clearance		F/R	Self-Adjusting/Self-Adjusting	
Brake lining	Front wheel	Bonded or riveted	Bonded	
		Rivet size	Not Applicable	
		Manufacturer	AKEBONO BRAKE INDUSTRY	
		Lining code *****	AK V3016 EE	
		Material	Resin Mold Including Metal	
		***** Pri. or out-brd	103x40x10 mm (4.06x1.57x0.39 in.)	105x37.5x10mm (4.13x1.48x0.39in)
	Size Sec. or in-brd	104x40x10 mm (4.09x1.57x0.39 in.)		
	Shoe thckns.(no lng)	5 mm (0.20 in.)		
	Rear wheel	Bonded or riveted	Bonded	
		Manufacturer	NISSHIN SPINNING	
		Lining code *****	NBK D9007 FF	
		Material	Resin Mold	
***** Pri. or out-brd		172.7 x 25 x 4.3 mm (6.80 x 0.98 x 0.17 in.)		
Size Sec. or in-brd		172.7 x 25 x 4.3 mm (6.80 x 0.98 x 0.17 in.)		
Shoe thckns (no lng)	1.8 mm (0.07 in.)			

* Excludes rivet holes, grooves, chamfers, etc. **Includes rivet holes, grooves, chamfers, etc.
 *** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circum.)
 (Disc brake: Square of Outer Working Dia. - Square of inner Working Dia. X Pi/2 for each brake.)
 **** Size for drum brakes includes length x width x thickness.
 ***** Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) 8-90

METRIC (U.S. Customary)

Body Type And/Or
 Engine Displacement

COUPE & SEDAN

CONVERTIBLE

Tires And Wheels (Standard)

	Size (load range, ply)	P145/80R12	P165/65R13	
Tires	Type (bias, radial, etc.)	Radial		
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	220	180
		Rear kPa (psi)	220	180
	Rev/mile-at 70 km/h(45mph)	985	978	
	Wheels	Type & material	5 deg. Drop Center Rim Contours, Steel	
Rim (size & flange type)		12 x 4.00B	13 x 4.50J	
Wheel offset		45		
Attachment		Type(bolt,stud)	Stud	
		Circle diameter	114.3	
Number & size	4 - M10	4-M12		
Spare	Tire and wheel	T105/80D13, 13 x 4T	T115/70D14, 14 x 4T	
	Storage position & location (describe)	Flat Under Rear Load Floor		

Tires And Wheels (Optional)

(NOT APPLICABLE)

Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Spare tire and wheel size (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)	

Brakes - Parking

Type of control	Lever - Hand Operated	
Location of control	Between Front Seat	
Operates on	Rear Service Brakes	
If separate from service brakes	Type(internal or external)	Not Applicable
	Drum diameter	"
	Lining size (length x width x thickness)	"

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) 9-90

METRIC (U.S. Customary)

Body Type And/Or
 Engine Displacement

COUPE	SEDAN	CONVERTIBLE
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Steering

Manual (std., opt., n.a.)		Standard		
Power (std., opt., n.a.)		Not Applicable		
Adjustable steering wheel/ column (tilt, telescopic, other)	Type	"		
	Manufacturer	"		
	(std., opt., n.a.)	"		
Wheel diameter ** (W9) SAE J1100	Manual	375 mm (14.76 in.)		
	Power	Not Applicable		
Turning diameter m (ft.)	Out-side front	Wall to wall (l. & r.)	10.0 (32.8) 10.4 (34.1) 10.0 (32.8)	
		Curb to curb (l. & r.)	8.2 (30.2) 8.8 (31.5) 8.2 (30.2)	
	In-side rear	Wall to wall (l. & r.)	Not Applicable	
		Curb to curb (l. & r.)	"	
Scrub Radius *		-1		
Manual	Gear	Type	Rack And Pinion	
		Manufacturer	Suzuki Motor Co., Ltd.	
		Ratios	Gear Overall	Not Applicable 18:1
	No. wheel turns(stop to stop)		3.6	
	Type (coaxial, elec. hyd., etc.)		Not	
Power	Manufacturer		Applicable	
	Gear	Type	"	
		Ratios	Gear	"
			Overall	"
	Pump (drive)		"	
	No. wheel turns(stop to stop)		"	
Linkage	Type		Not Applicable	
	Location (front or rear of wheels, other)			
	Tie Rods (one or two)		2	
Steering axis	Inclination at camber (deg.)		25.7 23.9	
	Bear-ings (type)	Upper	Ball Bearing	
		Lower	Rubber Bushing	
		Thrust	Not Applicable	
Steering spindle/knuckle & joint type		Serrated Shaft		

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

o MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) 9-90

METRIC (U.S. Customary)

Body Type And/Or
 Engine Displacement

ALL

Wheel Alignment

Wheel	Service	Parameter	Value
Front wheel at curb mass (w.t.)	Service checking	Caster (deg.)	3
		Camber (deg.)	0
		Toe-in outside track - mm (in.)	0
	Service reset*	Caster (deg.)	Not Adjustable
		Camber (deg.)	"
		Toe-in - mm (in.)	Adjustable
	Periodic M.V. inspection	Caster (deg.)	3 (+/-) 2
		Camber (deg.)	0 (+/-) 1
		Toe-in - mm (in.)	0 +/- 2 mm
Rear wheel at curb mass (w.t.)	Service checking	Camber (deg.)	0
		Toe-in outside track - mm (in.)	2mm
	Service reset*	Camber (deg.)	Not Adjustable
		Toe-in - mm (in.)	Adjustable
	Periodic M.V. inspection	Camber (deg.)	0 (+/-) 1
		Toe-in - mm (in.)	2 (+/-) 2 mm

* Indicates pre-set, adjustable, trend set or other.

o Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Analog
	Trip odometer (std., opt., n.a.)	Optional
Head-up display	Std., opt., not avail.	Not Available
	Type - Secondary, Opto-electronic	
	Speedometer	Digital
	Status/warn. indicators - Turn signals, high beam, low fuel, check gauges	
	Brightness control	Day/night mode, adj.
EGR maintenance indicator		None
Charge indicator	Type	Not Applicable
	Warning device (light, audible)	Tell-Tale Warning Light
Temperature indicator	Type	Analog Gauge With Pointer
	Warning device	None
Oil pressure indicator	Type	Not Applicable
	Warning device	Tell-Tale Warning Light
Fuel indicator	Type	Analog Gauge With Pointer
	Warning device	None
Windshield wiper	Type (standard)	Electric 2-Speed
	Type (optional)	Intermittent
	Blade length	Dr: 500 mm (19.68 in.), AS: 450 mm (17.72 in.)
	Swept area sq cm (sq in)	6,161 (955)
Windshield washer	Type (standard)	Electric, Push-Button On Instrument Panel
	Type (optional)	None
	Fluid level indicator	None
Rear window wiper, wiper/washer (std., opt., n.a.)		Optional
Horn	Type	Electric Resonator
	Number used	1
Other	Service & Parking Brake Failure Warning Light, Seat Belt Warning Light And Buzzer, Headlamp High Beam Indicating Light, Check Engine Indicating Light, Turn Signal Indicating Light, Shift-Up Indicator (M/T), Tachometer (Convertible Models)	

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) 9-90

METRIC (U.S. Customary)

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

FUEL ECONOMY

Electrical - Supply System		VERSION	MANUAL TRANS.	AUTOMATIC TRANS.
Battery	Manufacturer	FURUKAWA BATTERY CO., LTD./DELCO REMY, DELCO REMY*		
	Model, std., (opt.)	55B24R-MF (55B24S-MF)/1982035, 52361590*		
	Voltage	12		
	Amps at 0 deg F cold crnk	400		
	Minutes-reserve capacity	70		
	Amps/hra. - 20 hr. rate	45		
Location		Left Hand Side Of Engine Compartment		
Alternator	Manufacturer	NIPPON DENSO, MITSUBISHI ELECTRIC*		
	Rating (idle/max. rpm)	50 A (2,500 rpm), 55A (2,500 rpm)*		
	Ratio (alt. crank/rev.)	2.36:1		
	Output at idle (rpm, park)	18 A (750 rpm)	25 A (750 rpm)*	23 A (850 rpm)
	Optional (type & rating)	None		31 A (850 rpm)*
Regulator	Type	Integral With Alternator		

Electrical - Starting System

Motor	Manufacturer	NIPPON DENSO, MITSUBISHI ELECTRIC*		
	Current drain deg C (F)	200 A		
	Power rating kw (hp)	0.8 (1.1)		1.0(1.3)1.2(1.6)*
Motor drive	Engagement type	Positive Shift Solenoid		
	Pinion engages from (front, rear)	Front		

Electrical - Ignition System

Type	Electronic (std. opt. n.a.)	Standard		
	Other (specify)	High Energy Ignition		
Coil	Manufacturer	NIPPON DENSO		
	Model	---		
	Current	Engine stopped - A	0	
		Engine idling - A	1.5 A	
Spark plug	Manufacturer	NGK	ND	AC
	Model	BPR6ES-11 W20EPR-U11 R42XLS		
	Thread (mm)	14		
	Tightening torque Newton meters (lb. ft.)	24.5		
	Gap	1.1 mm (0.04 in.)		
	Number per cylinder	1		
Distributor	Manufacturer	NIPPON DENSO		
	Model	---		

Electrical - Suppression

Locations & type	Internal Alternator Capacitor, Resistor High-Tension Ignition Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Flame-Spraying Rotor Distributor
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Note: * Indicates CAMI Production

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*)

METRIC (U.S. Customary)

Body Type	COUPE	SEDAN	CONVERTIBLE
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Body

Structure	Unitized Frame
Bumper System Front - Rear	Bumper System Is Composed Of Energy Absorption Formed Polypropylene, Steel Member And Polypropylene Cover
Anti-Corrosion Treatment	<ol style="list-style-type: none"> 1. Use Of Surface Treated Steel In Major Body Components 2. Application Of Vinyl Chloride Coating To Floor Bottom & Side Sill Outer 3. Application Of Corrosion Protection Oil To Side Sill Inner Surface

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Enamel		
Hood	Material & mass	Steel	
	Hinge location (front, rear)	Rear	
	Type (counterbalance, prop)	Prop	
	Release control (int., ext.)	Internal And External	
Trunk lid	Material & mass	Not Applicable	
	Type (counterbalance, other)	"	
	Internal release control (elec., mech., n.a.)	"	
Hatch-back lid	Material & mass	Steel	
	Type (counterbalance, other)	Gas Dumper Stay	
	Internal release control (elec., mech., n.a.)	Mechanical	
Tailgate	Material & mass	Not Applicable	
	Type (drop, lift, door)	"	
	Internal release control (elec., mech., n.a.)	"	
Vent window control (crank, friction, pivot, power)	Front	Not Applicable	
	Rear	Pivot	Not Applicable
Window regulator type (cable, tape, flex drive, etc.)	Front	X Arm	
	Rear	Cable	
Seat cushion type (e.g., 60/40, bucket, bench wire, foam, etc.)	Front	Bucket Type, Steel Plate Press Frame, Urethane Mold	
	Rear	Bench Type, Steel Wire Frame, Urethane Mold	Not Applicable
	3rd seat	Not Applicable	
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket Type, Steel Tube And Press Frame, Urethane Mold	
	Rear	Bench Type, Steel Tube And Press Frame, Urethane Mold	Not Applicable
	3rd seat	Not Applicable	

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) _____

METRIC (U.S. Customary)

Body Type

COUPE	SEDAN
-------	-------

Restraint System

Seating Position		Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat		
	Standard/optional	Second seat	Lap & Shoulder Belt, ELR-ALR, Standard	Lap & Shoulder Belt, ELR-ALR, Standard
		Third seat		
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt)	First seat	3-Point Fixed Belt, Std.	3-Point Fixed Belt, Standard
	Standard/optional	Second seat		
		Third seat		

Glass

	SAE Ref No	COUPE	SEDAN
Windshield glass exposed surface area sq. cm. (sq. in.)	S1	8,281 (1,284)	8,620 (1,336)
Side glass exposed surface area sq. cm. (sq. in.) - total 2-sides	S2	12,384 (1,920)	13,166 (2,041)
Backlight glass exposed surface area sq. cm. (sq. in.)	S3	4,071 (631)	3,882 (602)
Total glass exposed surface area sq. cm. (sq. in.)	S4	24,736 (3,834)	25,668 (3,979)
Windshield glass (type)		Laminated Glass	
Side glass (type)		Tempered Glass	
Backlight glass (type)		Tempered Glass	

Headlamps

Description - sealed beam, halogen, replaceable bulb, etc.	Halogen
Shape	Rectangular
Lo-beam type (2A1, 2B1, 2C1, etc.)	
Quantity	2
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	
Quantity	2

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized Frame
---	----------------

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) 8-90

METRIC (U.S. Customary)

Body Type

2-DOOR CONVERTIBLE

Restraint System

Seating Position		Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	3-Point Lap And Shoulder Belt	3-Point Lap And Shoulder Belt
		Second seat		
	Standard/optional	Third seat		
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt)	First seat	Supplemental Inflatable Restraint	
		Second seat		
	Standard/optional	Third seat		

Glass	SAE Ref No	
Windshield glass exposed surface area sq. cm. (sq. in.)	S1	8,281 (1,284)
Side glass exposed surface area sq. cm. (sq. in.) - total 2-sides	S2	6,512 (1,010)
Backlight glass exposed surface area sq. cm. (sq. in.)	S3	
Total glass exposed surface area sq. cm. (sq. in.)	S4	
Windshield glass (type)		Laminated Glass
Side glass (type)		Tempered Glass
Backlight glass (type)		Vinyl Film

Headlamps

Description - sealed beam, halogen, replaceable bulb, etc.	Halogen, Replaceable Bulb
Shape	Composite
Lo-beam type (2A1, 2B1, 2C1, etc.)	
Quantity	2
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	
Quantity	2

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized Frame
---	----------------

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) _____

METRIC (U.S. Customary)

Body Type

ALL

Convenience Equipment (standard, optional, n.a.)

Air conditioning (manual, auto, temp control)		Optional, Manual Control
Clock (digital, analog)		Optional, Digital, Integral With Radio
Compass / thermometer		Not Applicable
Console (floor, overhead)		Optional, Floor
Defroster, elec. backlight		Optional
Electronic	Diagnostic monitor (integrated, individual)	Not Applicable
	Instrument cluster (list instruments)	Not Applicable
	Keyless entry	
	Tripminder (avg. spd. fuel)	
	Voice alert (list items)	
Other		
Fuel door lock (remote, key, electric)		Not Applicable
Lamps	Auto head on/off delay, dimming	Not Applicable
	Cornering	"
	Courtesy (map, reading)	"
	Door lock, ignition	"
	Engine compartment	"
	Fog	"
	Glove compartment	"
	Trunk	"
	Illuminated entry system (list lamps, activation)	"
Other	"	
Mirrors	Day / night (auto, man.)	Manual
	L.H. (remote, pwr., heated)	Remote
	R.H. (convex, rmt, pwr, htd)	Convex
	Visor vanity (RH/LH illum.)	Optional, RH
Navigation system (describe)		Not Applicable
Prkg. brake-auto release (warn. light)		Not Applicable

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) 9-90

METRIC (U.S. Customary)

Engine Description
 Engine Code

ALL

Convenience Equipment (standard, optional, n.a.)

Power equipment	Deck lid (release, pull down)		Not Applicable
	Door locks (manual, auto., describe system)		"
	Seats	2 - 4 - 6 way, etc.	"
		Reclining (R.H., L.H.)	"
		Memory (R.H., L.H., preset, recline)	"
		Support (lumbar, hip, thigh, etc.)	"
		Heated (R.H., L.H., other)	"
	Side windows		"
	Vent windows		"
	Rear windows		"
Radio systems	Antenna (location, whip, w/shield, power)		Left Front Pillar, Whip (Right Fender - Convertible)
	Stan.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	Antenna Only
	Opt.		AM/FM Stereo AM/FM Stereo With Cassette
	Speaker (number, location)		Optional 2: I.P. Mounted, 2: Back Door Trim (Qtr. Tie Member - Convertible)
Roof: open air or fixed (flip-up, sliding, "T")			Not Applicable
Speed control device			"
Speed warn. dev. (light, buzzer, etc.)			"
Tachometer (rpm)			Standard (Convertible Only)
Telephone system (describe)			Not Applicable
Theft deterrent system			Steering Lock Type

○ Trailer Towing

Towing capable	Yes / No	No
Engine/transmission/axle	Std / Opt	
Tow class (I, II, III)*	Std / Opt	
Max. gross trailer wgt. (lbs.)	Std / Opt	
Max. trailer tongue load (lbs.)	Std / Opt	
Towing package available	Yes / No	

* Class I - 2,000 lbs. Class II - 3,500 lbs. Class III - 5,000 lbs.

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 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.

Body Type

COUPE	SEDAN	CONVERTIBLE
-------	-------	-------------

Width

SAE Ref. No.

	SAE Ref. No.	COUPE	SEDAN	CONVERTIBLE
Tread (front)	W101	1365 (53.74)		
Tread (rear)	W102	1340 (52.76)		
Vehicle width	W103	1575 (62.00)	1592 (62.68)	
Body width at Sg RP (front)	W117	1575 (62.00)	1592 (62.68)	
Vehicle width (front doors open)	W120	3590 (141.34)	3250 (127.95)	3590 (141.34)
Vehicle width (rear doors open)	W121	---	2990 (117.71)	---
Tumble-home (deg.)	W122	22.5	22.0	22.5
Outside mirror width	W410			

Length

	SAE Ref. No.	COUPE	SEDAN	CONVERTIBLE
Wheelbase	L101	2265 (89.17)	2365 (93.11)	2265 (89.17)
Vehicle length	L103	3710 (146.06)	3810 (150.0)	3710 (146.06)
Overhang (front)	L104	767 (30.20)		
Overhang (rear)	L105	678 (26.69)		
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 **

	SAE Ref. No.	COUPE	SEDAN	CONVERTIBLE
Passenger distribution (front/rear)	PD1,2,3	2/2		2/0
Trunk/cargo load		---		
Vehicle height	H101	1330 (52.36)	1360 (53.54)	1320 (51.97)
Cowl 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 **

	SAE Ref. No.	COUPE	SEDAN	CONVERTIBLE
Front bumper to ground	H102	218 (8.58)	215 (8.46)	218 (8.58)
Rear bumper to ground	H104	260 (10.24)	263 (10.35)	260 (10.24)
Bumper to ground front at curb mass (wt.)	H103	235 (9.25)	233 (9.17)	235 (9.25)
Bumper to ground rear at curb mass (wt.)	H105	283 (11.14)	285 (11.22)	283 (11.14)
Angle of approach (deg.)	H108	20.5	20	20.5
Angle of departure (deg.)	H107	22	22.5	22
Ramp breakover angle (deg.)	H147	17		
Axle 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)

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) _____

METRIC (U.S. Customary) Vehicle Dimensions

See Key Sheets for Definitions

Body Type

COUPE SEDAN CONVERTIBLE

Front Compartment

SAE Ref. No. [] : Pass.

SgRP front, 'X' coordinate	L31	1850 (72.83)		
Effective head room	H61	960 (37.80)	966 (38.82)	1007 (39.85)
Max. eff. leg room (accelerator)	L34	1079 (42.48)		1078 (42.4)
SgRP to heel point	H30	240 (9.45)		200 (7.9)
SgRP to heel point	L53	882 (34.72) [645 (25.39)]		891(35.06)[734(28.88)]
Back angle (deg.)	L40	25		
Hip angle (deg.)	L42	97.5 [88.7]		95 [95]
Knee angle (deg.)	L44	129 [107.3]		128 [127]
Foot angle (deg.)	L46	87 [140]		87 [154.5]
Design H-point front travel	L17	210 (8.27)		
Normal driving & riding seat track trvl.	L23	210 (8.27)		
Shoulder room	W3	1310 (51.57)		
Hip room	W5	1298 (51.10)		
*** Upper body opening to ground	H50	1230 (48.43)	1253 (49.33)	1207 (47.5)
Steering wheel maximum diameter*	W9	375 (14.76)		
Steering wheel angle (deg.)	H18	25.7		23.9
Accel. heel pt. to steer. whl. cntr	L11	452 (17.80)		459 (18.1)
Accel. heel pt. to steer. whl. cntr	H17	615 (24.21)		598 (23.5)
Undepressed floor covering thickness	H67	30 (1.18)		

Front Compartment Int. Dim. Are Measured With The Seating Ref. Pt.
 (SgRP) 0 mm Forward And 0 mm Upward of Rearmost Position.

Rear Compartment

SgRP point couple distance	L50	660 (25.98)	735 (28.94)	Not Applicable
Effective head room	H83	928 (36.54)	965 (37.99)	"
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)	"
Shoulder 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)	"
Back angle (deg.)	L41	25		"
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)		"

Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	158.8 (5.6)	175.7 (6.2)	180 (6.4)
*** Lifter height	H195	769 (30.28)		

Interior Volumes (EPA Classification)

Vehicle class		Subcompact	Two Seater
Interior volume index (cu. ft.)**		78.8	84.4
Trunk / cargo index (cu. ft.)		10.3	10.5

* 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)

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-80 Revised(*) _____

METRIC (U.S. Customary) Vehicle Dimensions

See Key Sheets for Definitions

Body Type

COUPE

SEDAN

Station Wagon - Third Seat

SAE Ref. No.

(NOT APPLICABLE)

Seat facing direction	SD1	
SgRP couple distance	L85	
Shoulder room	W85	
Hip Room	W86	
Effective leg room	L86	
Effective head room	H86	
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 - Cargo Space

(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 (warehouse)	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	

Hatchback - Cargo Space

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.)	V3	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	V11	0.290 (10.2)	0.295 (10.4)

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

MVMA Specifications

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*)

METRIC (U.S. Customary)

Body Type COUPE, CONVERTIBLE SEDAN

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location	
Front	Front Suspension Strut Upper Center	
Rear	Burning Hole Center Of Rear Floor Side Member At Rearmost Bottom Surface	
Fiducial Mark Number		
Front	W21*	512 (20.16)
	L54*	569 (22.40)
	H81*	525 (20.67)
	H181*	755 (29.72)
**	H183*	738 (27.06) 737 (29.02)
Rear	W22*	463 (18.23)
	L55*	3260 (128.35) 3360 (132.28)
	H82*	159 (6.26)
	H182*	413 (16.26)
**	H184*	390 (15.35) 391 (15.99)

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

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

o MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*)

Code	Model	VEHICLE MASS (weight)				SHIPPING MASS kg (lb) ***	ETWC** Code	% PASS MASS DISTRIBUTION			
		CURB MASS, kg. (lb.)*			PASS IN FRONT			PASS IN REAR			
		Front	Rear	Total				Front	Rear	Front	Rear
Geo METRO (1MR08)	2-Door Hatchback Coupe	430 (948)	305 (672)	735 (1620)	706 (1563)	H	47	53	13	87	
(1MR67)	2-Door Convertible	475 (1047)	320 (706)	795 (1753)	789 (1696)	I	47	53			
(1MR68)	4-Door Hatchback Sedan	442 (974)	326 (719)	768 (1693)	742 (1636)	I	48	52	13	87	
Geo METRO XFI (1MS0e)	2-Door Hatchback Coupe	428 (944)	305 (672)	733 (1616)	707 (1559)	H	47	53	13	87	

* 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.

ETWC LEGEND

- | | | | | |
|--------|-----------|----------|------|-----------|
| • 1000 | I = 2000 | O = 3000 | 4000 | Y = 4000 |
| • 1125 | J = 2125 | P = 3125 | 4250 | Z = 4250 |
| • 1250 | K = 2250 | Q = 3250 | 4500 | AA = 4500 |
| • 1375 | L = 2375 | R = 3375 | 4750 | BB = 4750 |
| • 1500 | M = 2500 | S = 3500 | 5000 | CC = 5000 |
| • 1625 | N = 2625 | T = 3625 | 5250 | DD = 5250 |
| • 1750 | PO = 2750 | U = 3750 | 5500 | EE = 5500 |
| • 1875 | P = 2875 | X = 3875 | 5750 | FF = 5750 |

*** Shipping Mass (weight) = Curb Weight Less:

 26 (57)

MVMA Specifications
METRIC (U.S. Customary)

Vehicle Line Geo METRO
 Model Year 1991 Issued 6-90 Revised(*) 9-90

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
B37	Floor Piece Mat	2.0 (4.4)	2.0 (4.4)	4.0 (8.8)	
C25	Rear Window Washer & Wiper	0 (0)	1.3 (2.9)	1.3 (2.9)	
C49	Air Conditioning	20.3 (44.8)	-2.0 (-4.4)	18.3 (40.3)	
D35	OSRV Mirror (RH)	0.6 (1.3)	0.5 (1.1)	1.1 (2.4)	
MX1	Automatic Transmission	26.0 (57.3)	-3.0 (-6.6)	23.0 (50.7)	
PB2	Full Wheel Cover	0.77 (1.69)	0.77 (1.69)	1.54 (3.39)	
UM6	AM/FM Stereo W/Cassette Deck	2.0 (4.4)	0.7 (1.5)	2.7 (6.0)	
UM7	Radio - AM/FM Stereo	2.0 (4.4)	0.7 (1.5)	2.7 (6.0)	
U66	Radio Speakers - Dual Rear	0.9 (2.0)	0.9 (2.0)	1.8 (4.0)	
VH4	Front and Rear Mud Guard	0.5 (1.08)	0.7 (1.5)	1.17 (2.6)	

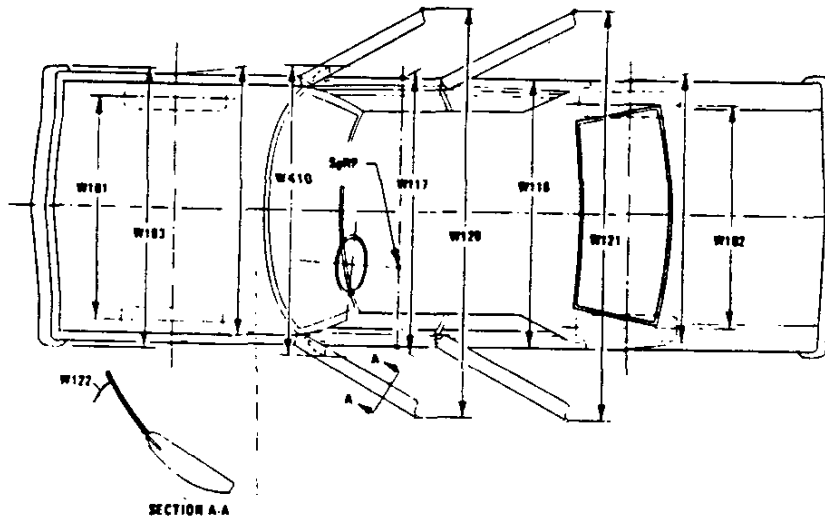
* Also see Engine - General Section for dressed engine mass (weight).

MVMA Specifications

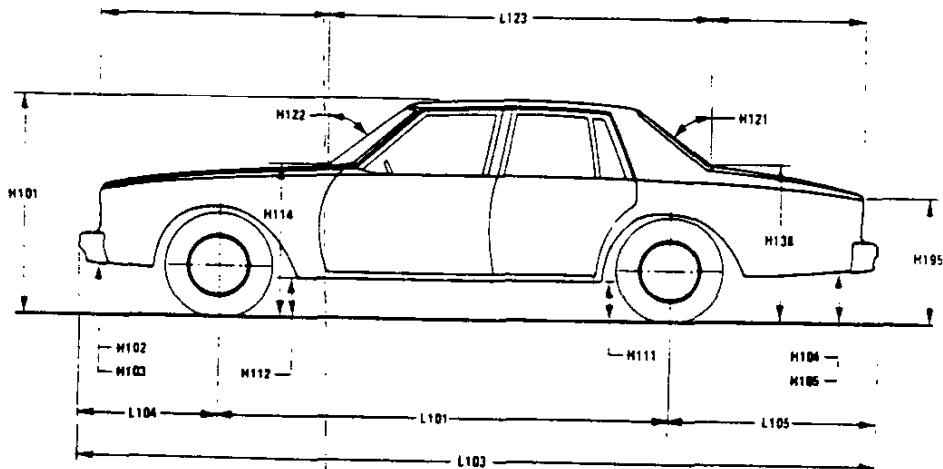
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions – Key Sheet

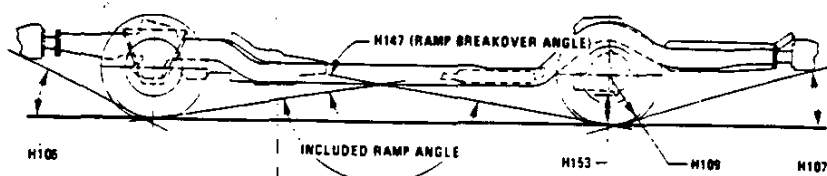
Exterior Width



Exterior Length & Height



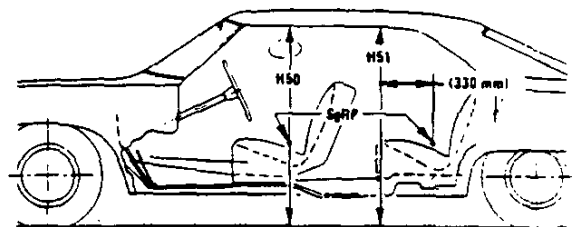
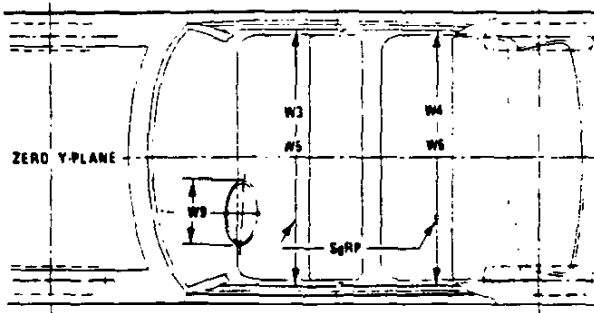
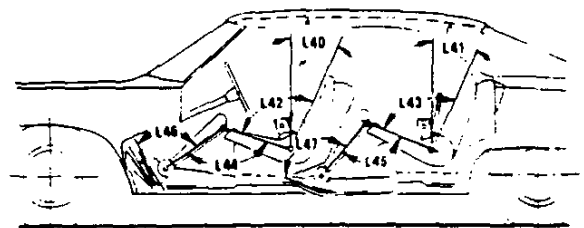
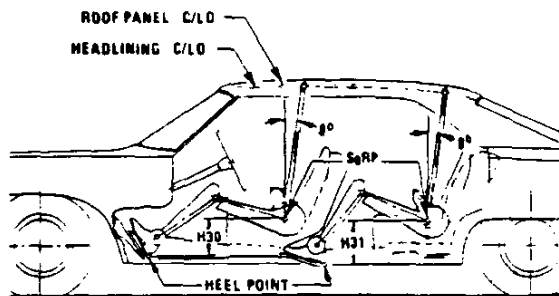
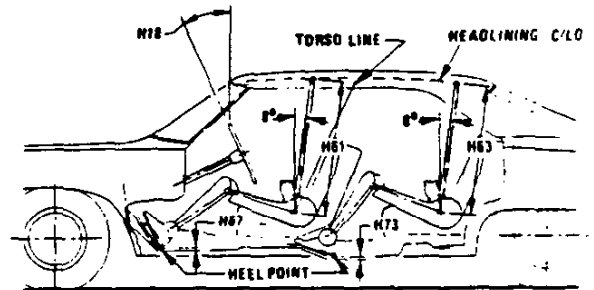
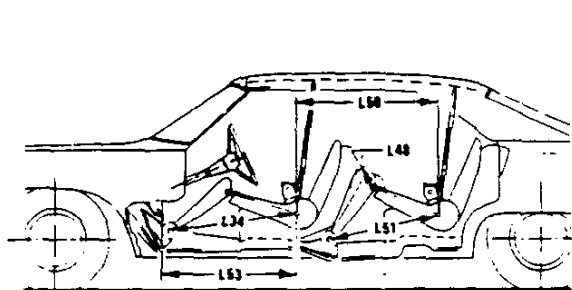
Exterior Ground Clearance



MVMA Specifications Form

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet

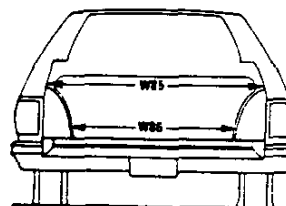
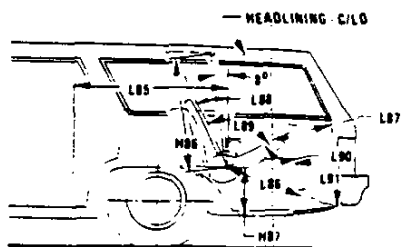


MVMA Specifications Form

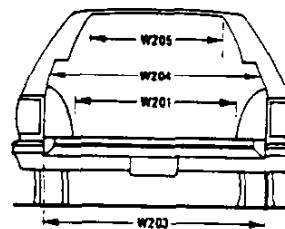
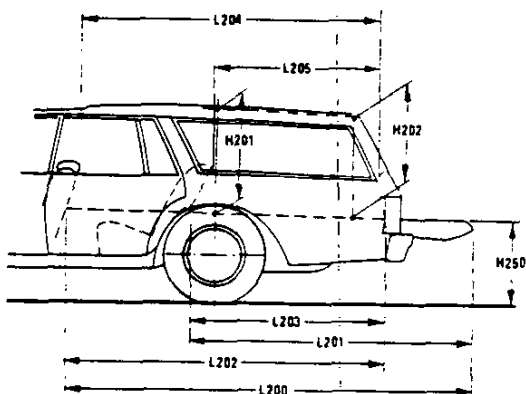
METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet

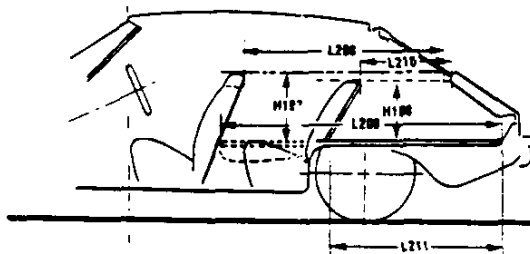
Third Seat



Cargo Space



Station Wagon



Hatchback

MVMA Specifications

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

- 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.
- W410 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

- 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.
- 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 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.
- 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 the midpoint of the distance between the rear axle centerlines

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body 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.
- 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.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield 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.) long drawn from the lower DLO to the intersecting point on the windshield.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD – TIRE RADIUS – REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

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.
- H103 FRONT BUMPER TO GROUND – CURB MASS (WT.). Measured 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 equipment.
- H105 REAR BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

Glass Areas

- S1 Windshield area.
- S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3 Backlight areas.
- S4 Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

Fiducial Mark - Number 1

- L54 "X" coordinate.
- W21 "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at curb weight.
- H163 Height "Z" coordinate to ground.

Fiducial Mark - Number 2

- L55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- H162 Height "Z" coordinate to ground at curb weight.
- H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL 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 wheel rim.
- L17 DESIGN H-POINT - FRONT TRAVEL. The dimension measured horizontally between the design H-point - front in the foremost and rearmost seat track positions. (See SAE J1100)
- L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. 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 travel used for purposes other than normal driving and riding positions. (See SAE J1100).
- L31 SgRP - FRONT, "X" COORDINATED.
- L34 MAXIMUM EFFECTIVE LEG ROOM - 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.
- L-40 BACK ANGLE - FRONT. The angle measured between a vertical line through the SgRP - front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L-42 HIP ANGLE - FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE - FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE - FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
- L53 SgRP - FRONT TO HEEL. The dimension measured horizontally from the SgRP - front to the accelerator heel point.
- W3 SHOULDER ROOM - FRONT. The minimum dimension measured 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.

- W5 HIP ROOM - FRONT. The minimum dimension measured 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.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H7 ACCELERATOR HEEL POINT TO THE STEERING WHEEL 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.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP - FRONT TO HEEL. The dimension measured vertically from the SgRP - front to the accelerator heel point.
- H50 UPPER BODY OPENING TO GROUND - FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP - front "X" plane.
- H61 EFFECTIVE HEAD ROOM - FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP - front to the headlining plus 102 mm (4.0 in.).
- H67 FLOOR COVERING THICKNESS - UNDEPRESSED - FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

Rear Compartment Dimensions

- L-41 BACK ANGLE - SECOND. The angle measured between a vertical line through the SgRP - second and the torso line.
- L43 HIP ANGLE - SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE - SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE - SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE - SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE - SECOND. The dimension measured horizontally from the driver SgRP - front to the SgRP - second.
- L51 MINIMUM EFFECTIVE LEG ROOM - SECOND. The dimension measured along a line from the ankle pivot center to the SgRP - second plus 254 mm (10.0 in.).
- W4 SHOULDER ROOM - SECOND. The minimum dimension 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.
- W6 HIP ROOM - SECOND. Measured in the same manner as W5.
- 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.
- H51 UPPER BODY OPENING TO GROUND - SECOND. The 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.
- H63 EFFECTIVE HEAD ROOM - SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H73 FLOOR COVERING - DEPRESSED - SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

MVMA Specifications

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 Interior Volume Index is an estimate of the size of the passenger compartment.

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 – Third Seat Dimensions

- L85 **SgRP COUPLE DISTANCE – THIRD.** The dimension measured horizontally from the SgRP – second to the SgRP – third.
- L86 **EFFECTIVE LEG ROOM – THIRD.** The dimension measured along a line from the ankle pivot center to the SgRP – third plus 254 mm (10.0 in.).
- L87 **KNEE CLEARANCE – 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.
- H86 **EFFECTIVE HEAD ROOM – THIRD.** The dimension, measured along a line 8 deg. from the SgRP – third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 **SgRP – THIRD TO HEEL POINT.**
- SD1 **SEAT FACING DIRECTION – THIRD.**

Station Wagon – 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 **CARGO LENGTH – CLOSED – FRONT.** The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 **CARGO LENGTH – CLOSED – SECOND.** The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 **CARGO LENGTH AT BELT – FRONT.** The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 **CARGO LENGTH AT BELT – SECOND.** The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 **CARGO WIDTH – WHEELHOUSE.** The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.
- W203 **REAR OPENING WIDTH AT FLOOR.** The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 **REAR OPENING WIDTH AT BELT.** The minimum dimension measured laterally between the limiting 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.
- 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.
- V2 **STATION WAGON**

Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$$

Measured in mm:

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

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V5 TRUCKS AND MPV'S WITH OPEN AREA.
Measured in inches:

$$\frac{L506 \times W505 \times H503}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

V8 HIDDEN LUGGAGE CAPACITY – REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.

V10 STATION WAGON CARGO VOLUME INDEX.

Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

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 electronically adjusted seats, see the manufacturer's specifications for Design "H" Point).

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

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

L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT – HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "X" plane.

L211 CARGO LENGTH AT FLOOR – SECOND HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

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

H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seatback to the undepressed floor covering.

V3 HATCHBACK.

Measured in inches:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:

Measured in inches:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

MVMA Specifications

METRIC (U.S. Customary)

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