

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1994

Manufacturer SUZUKI MOTOR CORPORATION	Vehicle Line SAMURAI	
Mailing Address HAMAMATSU-NISHI, P.O. BOX 1 432-91, HAMAMATSU, JAPAN	Issued August 30, 1993	Revised

Direct questions concerning these specifications to the manufacturer listed above.

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Motor Vehicle Manufacturers Association
of the United States, Inc.
Forms Provided by Technical Affairs Division

MVMA Specifications
METRIC (U.S. Customary)

Vehicle Line SAMURAI

Model Year 1994 **Issued** 93.8.28 **Revised (*)** _____

Vehicle Origin

Design & development (company)	SUZUKI MOTOR CORPORATION (Japan)
Where built (country)	Japan
Authorized U.S. sales marketing representative	American Suzuki Motor Corporation

Vehicle Models

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk / Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
SAMURAI (4WD)	1992.06.01	4WD ; JC31C	2/2	112 (247)	28/29

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

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Engine Description
Engine Code

1.3 L Throttle body injection

softtop

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		Inline, Front, Longitudinal, SOHC
Manufacturer		SUZUKI MOTOR CORPORATION
No. of cylinders		4
Bore		74 mm (2.91 in)
Stroke		75.5 mm (2.97 in)
Bore spacing (C/L to C/L)		84 mm (3.31 in.)
Cylinder block material & mass kg (lbs.) (machined)		Aluminum alloy, 14.082 kg
Cylinder block deck height		186.8 mm
Cylinder block length		372 mm
Deck clearance (minimum) (above or below block)		0.2 mm (0.01 in) above
Cylinder head material & mass kg (lbs.)		Aluminum alloy, 7.018 kg
Cylinder head volume cm ³ (inches ³)		32.2 cm ³
Cylinder liner material		Cast iron
Head gasket thickness (compressed)		1.2 mm
Minimum combustion chamber total volume cm ³ (inches ³)		38.2 cm ³
Cyl.no.system (front to rear)*	L Bank	1-2-3-4
	R Bank	-----
Firing order		1-3-4-2
Intake manifold material & mass kg (lbs.)**		Aluminum alloy, 2.6 kg (5.7 lbs)
Exhaust manifold material & mass kg (lbs.)**		Cast iron, 5.3 kg (11.7 lbs)
Knock sensor (number & location)		N.A.
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R+M) - 2		87 or more
Engine mounts	Quantity	3
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Rubber (Elastomeric)
	Added isolation (sub-frame, crossmember, etc.)	None
Total dressed engine mass (wt) dry***		73 kg

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy, 226 g
--	-----------------------

Engine - Camshaft

Location	In cylinder head	
Material & mass kg (weight, lbs.)	Cast iron, 1.916 kg	
Drive type	Chain / belt	Belt
	Width / pitch	19.1 mm / 9.525 mm

*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: Oil & Coolant excluded, Air Cleaner, Intake manifold & Exhaust manifold included

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Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	n.a.	
Valves	Number intake / exhaust	4 / 4
	Head O.D. intake / exhaust	36/30 (mm)

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)	Forged steel 0.37 (0.82)
Length (axes C/L to C/L)	120 mm

Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Nodular cast iron 7.253 (15.99)	
End thrust taken by bearing (no.)	2	
Length & number of main bearings	18mm x 5	
Seal (material, one, two Piece design, etc.)	Front	Rubber, 1 piece
	Rear	Rubber, 1 piece

Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	392 (461) @4,000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full flow
Capacity of c/case, less filter-refill-L	3.5 (3.7) (=Filter Replace)
SAE Viscosity Number (Recommended)	5W-30

Engine - Diesel Information

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

Engine - Intake System

Turbo charger - manufacturer	N.A.
Super charger - manufacturer	N.A.
Intercooler	N.A.

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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Std.	
Coolant fill location (rad., bottle)	Bottle	
Radiator cap relief valve pressure kPa (psi)	88.3	
Circulation thermostat	Type (choke, bypass)	Bypass
	Starts to open at °C (°F)	82 (180)
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	4.0 gallon/min
	Number of pumps	1
	Drive (V-belt, other)	V ribbed belt
	Bearing type	Ball & roller
	Impeller material	Steel
	Housing material	Aluminum alloy
By-pass recirculation type (inter., ext.)	Ext.	
Cooling system capacity	With heater - L	4.8
	With air conditioner - L	4.8
	Opt. equipment specify - L	N.A.
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	Std
	Type (cross-flow, etc.)	Vertical-flow
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube
	Material, mass kg (wgt., lbs.)	Aluminum, MT:2.6
	Width	378
	Height	375
	Thickness	24
Fins per inch	16.9	
Radiator end tank material	Plastics	
Fan	Std., elec., opt.	Std
	Number of blades & type (flex, solid, material)	5. Flex, Plastics
	Number & location (front, rear of radiator)	Rear
	Diameter & projected width	320 & 50
	Ratio (fan to crankshaft rev.)	1.0
	Fan cutout type	Bimetal & fluid coupling
	Drive type (direct, remote)	Clutch fan, Remote
	RPM at idle (elec.)	N.A.
	Motor rating (wattage / elec.)	N.A.
	Motor switch (type & location / elec.)	N.A.
	Switch point (temp./pressure/elec.)	N.A.
	Fan shroud (material)	plastics

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Engine Fuel System

(See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type : carburetor, fuel injection system, etc.		Fuel injection
Manufacturer		Mitsubishi - Mikuni
Carburetor no. of barrels		N.A.
Idle A/F mix.		Preset at manufacture
Fuel injection	Point of injection (no.)	Throttle body (1)
	Constant, pulse, flow	Pulse flow
	Control (electronic, mech.)	Electronic
	System pressure kPa (psi)	250 KPa (36 psi)
Idle spd. - rpm (spec. neutral or drive and propane if used)	Manual	800 (neutral)
	Automatic	N.A.
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water thermostatic
Air cleaner type		Replaceable nonwoven fabric element, Single snorkel
Fuel filter (type / location)		paper element, Under floor - rear
Fuel pump	Type (elec. or mech.)	Electronic
	Location (eng., tank)	Fuel tank
	Pressure range kPa (psi) (*)	588 KPa (85 psi)
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	80@250 (21.1@36)

Fuel Tank

Capacity refill L (gallons)		40(10.6)
Location (describe)		Under floor - rear
Attachment		Bolts
Material & Mass kg (weight lbs.)		Steel, 5.8 (12.8)
Filler pipe	Location & material	Right side rear quarter panel, Steel
	Connection to tank	Kevlar reinforced rubber hose
Fuel line (material)		Steel
Fuel hose (material)		Rubber
Return line (material)		Steel
Vapor line (material)		Steel and Rubber
Extended range tank	Opt., n.a.	N.A.
	Capacity L (gallons)	N.A.
	Location & material	N.A.
	Attachment	N.A.
Auxiliary tank	Opt., n.a.	N.A.
	Capacity L (gallons)	N.A.
	Location & material	N.A.
	Attachment	N.A.
	Selector switch or valve	N.A.
Separate fill		N.A.

* Note : Maximum Fuel Pump Pressure with closed valve is stated.

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		TBI/TWC/O2S/EGR
	Air Injection	Pump or pulse	N.A.
		Driven by	N.A.
		Air distribution (head, manifold, etc.)	N.A.
		Point of entry	N.A.
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Backpressure controlled
		Exhaust source	Intake Manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Manifold
	Catalytic Converter	Type	Three way cat.
		Number of	2
Location(s)		Under floor	
Volume L (in3)		1st-0.655 L (40.0in3), 2nd-0.655 L (40.0in3)	
Substrate type		Monolith	
Noble metal type		Platinum & Rhodium	
Noble metal concentration (g/cm3)		confidential	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Positive Crankcase Ventilation System
	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum
	Discharges to (intake manifold, other)		Intake manifold
	Air inlet (breather cap, other)		Air intake case
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	N.A.
	Vapor storage provision		Canister
Electronic system	Closed loop (yes/no)		Yes
	Open loop (yes/no)		Yes

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)		Muffler 1 , Reverse Flow
Resonator no. & type		None
Exhaust pipe	Branch o.d., wall thickness	Inner : ϕ 38.1 - 1.2, Outer: ϕ 48.6 - 1.2
	Main o.d., wall thickness	ϕ 42.7 - 1.6
	Material & Mass kg (weight lbs)	Inner : stainless steel, Outer : Aluminum coated steel
Inter-mediate pipe	o.d. & wall thickness	ϕ 42.7 - 2.0 mm
	Material & Mass kg (weight lbs)	GALVANIZING STEEL
Tail pipe	o.d. & wall thickness	ϕ 38.1 - 1.6 mm
	Material & Mass kg (weight lbs)	Aluminum coated steel

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

Manual 4-speed (manufacturer / country)	N.A.
Manual 5-speed (manufacturer/country)	SUZUKI MOTOR CORPORATION / JAPAN
Manual 6-speed (manufacturer/country)	N.A.
Automatic (manufacturer/country)	N.A.
Automatic overdrive (manufacturer/country)	N.A.

Manual Transmission / Transaxle

Number of forward speeds	5	
Gear ratios	1st	3.652
	2nd	1.947
	3rd	1.423
	4th	1.000
	5th	0.864
	6th	N.A.
	Reverse	3.466
Synchronous meshing (specify gears)	All forward gears	
Shift lever location	Floor mounted	
Trans. case mat'l & mass kg (lbs)*	Aluminum die-cast, 25 kg (55.1)	
Lubricant	Capacity L (pt.)	1.3 L
	Type recommended	Gear oil GL-4
	SAE Viscosity number	75W/90

Clutch (Manual Transmission)

Clutch manufacturer	AISIN SEIKI Co., LTD.		
Clutch type (dry, wet, single, multiple disc)	Dry, Single disc		
Linkage (hydraulic, cable, rod, lever, other)	Cable		
Max. pedal effort (nom. spring load) N (lbs)	Depressed	85N	
	Released	65N	
Assist (spring, power/percent, nominal)	N.A.		
Type pressure plate springs	Diaphragm spring		
Total spring load (nominal) N (lbs)	3234 N (728 lbs)		
Clutch facing	Facing mfg. & material coding	AISIN CHEMICAL Co., Ltd. AC601	
	Facing material & construction	Non-asbestos, Semi mold	
	Rivets per facing	16	
	Outside x inside dia. (nominal)	190 x 132 (7.48 x 5.20)	Unit : mm(inch)
	Total eff. area cm ² (in ²)	147 (22.8)	
	Thickness (pressure plate side/fly wheel side)	3.5 mm / 3.5 mm	
	Rivet depth (pressure plate side/fly wheel side)	1.3 - 1.9 mm / 1.3 - 1.9 mm	
Engagement cushion method	Separate cushion type		
Release bearing type & method lub.	Automatic center adjusting type with grease		
Torsional damping method, springs, hysteresis	Spring type		

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

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Automatic Transmission / Transaxle

Trade Name N.A.

Type and special features (describe) N.A.

Shift mechanics N.A.

Gear selector	Location (column, floor, other)	N.A.
	Ltr./No. designation (e.g. PRND21)	N.A.
	Shift interlock (yes, no, describe)	N.A.
Gear ratios	1st	N.A.
	2nd	N.A.
	3rd	N.A.
	4th	N.A.
	Reverse	N.A.
	Final drive ratio	N.A.

Max. upshift vehicle speed - drive range km/h (mph) N.A.

Max. upshift engine speed RPM N.A.

Max. kickdown speed - drive range km/h (mph) N.A.

Min. overdrive speed km/h (mph) N.A.

rc Torque converter	Type	N.A.
	Torus design	N.A.
	Number of elements	N.A.
	Max. ratio at stall	N.A.
	Type of cooling (air, liquid)	N.A.
	Nominal diameter	N.A.
	Capacity factor "K"	N.A.

Pump type N.A.

Lubricant Capacity refill L (pt.) N.A.

Type recommended N.A.

Oil cooler (std., opt., N.A., internal, external, air, liquid) N.A.

Transmission mass kg (lbs) & case material** N.A.

All Wheel / 4 Wheel Drive

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.) Part-time

Transfer case Manufacturer and model AISIN SEIKI Co., LTD.

Type and location Constant mesh helical gear

Low-range gear ratio 2.268

System disconnect (describe) Transfer lever

Center differential Type (bevel, planetary, w or w/o viscous bias, torsen, etc.) N.A.

Torque split (% front / rear) N.A.

* Input speed / $\sqrt{\text{torque}}$

** Dry weight including torque converter. If other, specify.

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

Axle ratio (or overall top gear ratio)		MT : 3.727 A/T : N.A.
Ring gear o.d.		175 mm
No. of teeth	Pinion	11
	Ring gear	MT:41, A/T:N.A.

Rear Axle Unit

Description		Differential with hypoid gear and taper bearings
Limited slip differential (type)		None
Drive pinion	Type	Hypoid gear
	Offset	23 mm
No. of differential pinions		4
Pinion / differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Collapsible
Driving wheel bearing (type)		Taper bearing
Lubricant	Capacity L (pt.)	1.5 L
	Type recommended	Hypoid gear oil GL-5
SEA Viscosity Number		75W-80

Propeller Shaft - Rear Wheel Drive

Manufacturer		HAMANA PARTS Co., Ltd., Straight tube	
Type (straight tube, tube-in-tube, internal-external damper, etc.)			
Outer diam. x length* x wall thickness	Manual 4-speed transmission	N.A.	
	Manual 5-speed transmission	1st :φ 50.8 x 634 x 2.3 2nd :φ 50.8 x 428 x 2.3 3rd :φ 50.8 x 428 x 2.3	
	Manual 6-speed transmission	N.A.	
	Over drive	N.A.	
	Automatic transmission	N.A.	
Inter-mediate bearing	Type (plain, anti-friction)	N.A.	
	Lubrication (fitting, prepack)	N.A.	
Slip yoke	Type	Involute serration hole	
	Number of teeth	23	
	Spine o.d.	24 mm	
Universal joints	Make and mfg no.	Front	Koyo seiko Co., Ltd.
		Rear	Koyo seiko Co., Ltd.
	Number used	4WD:6, 2WD:4	
	Type (ball and trunnion, cross)	Cross type	
	Rear attach (u-bolt, clamp, etc)	Flange and bolts	
Bearing	Type (plain, anti-friction)	Needle bearing	
	Lubrication (fitting, prepack)	Grease	
Drive taken through (torque tube, arms or springs)		Spring	
Torque taken through (torque tube, arms or springs)		Engine T/F mounting system	

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

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Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not avail.	N.A.		
	Manual/automatic control	N.A.		
	Type (air/hydraulic)	N.A.		
	Primary/assist spring	N.A.		
	Rear only/4 wheel leveling	N.A.		
	Single/dual rate spring	N.A.		
	Single/dual ride heights	N.A.		
Shock absorber damping controls	Provision for jacking	N.A.		
	Standard/option/not avail.	N.A.		
	Manual/automatic control	N.A.		
	Number of damping rates	N.A.		
	Type of actuation (manual/electric motor/air, etc.)	N.A.		
	s o r s	Lateral acceleration	N.A.	
		Deceleration	N.A.	
Acceleration		N.A.		
Road surface		N.A.		
Shock absorber (front & rear)	Type	Front : Double action telescopic	Rear : Double action telescopic	
	Make	Front : Kayaba industry	Rear : Tokico	
	Pistondiameter (mm)	Front : 25	Rear : 25	
	Rod diameter (mm)	Front : 12.5	Rear : 12.5	

Suspension - Front

Type and description	Leaf rigid	
Travel*	Full jounce (mm)	65
	Full rebound (mm)	40
Spring	Type (coil, leaf, other & material)	Leaf spring
	Insulators (type & material)	N.A.
	Size (Leaf length & width: Coil design height & l.d.; Bar : length & diameter)	Leaf spring : 935 x 50 x 6-1 , 935 x 50 x 7-2
	Spring rate N/mm (lb./in.)	39.6 (225.8)
	Rate at wheel N/mm (lb./in.)	39.6 (225.8)
Stablizer	Type (link, linkless, frameless)	Link
	Material & O.D.bar/tube, wall thickness	Steel tube, 24.2 x 3.0 (0.95 x 0.12)

Suspension - Rear

Type and description	Leaf rigid		
Travel*	Full jounce (mm)	80	
	Full rebound (mm)	60	
Spring	Type (coil, leaf, other & material)	Leaf spring	
	Size (Leaf length & width: Coil design height & l.d.; Bar : length & diameter)	Leaf spring : 1010x50x6-3, 1010x50x90-1	
	Spring rate N/mm (lb./in.)	24.5	
	Rate at wheel N/mm (lb./in.)	24.5	
	Insulators (type & material)	N.A.	
	lf leaf	No. of leaves	4
		Shackle (comp. or tens.)	comp.
Stablizer	Type (link, linkless, frameless)	N.A.	
	Material & O.D.bar/tube, wall thickness	N.A.	
Track bar (type)	N.A.		

* Define load condition:

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Brakes - Service

Description		Power - assisted (front solid disc / rear drum)		
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Nisshinbo, disc		
	Rear (disc or drum)	Nissin, drum		
Valving type (proportion, delay, metering, other)		Proportion		
Power brake (std., opt., n.a.)		Std.		
Booster type (remote, integral, vac., hyd., etc.)		Vac.		
Vacuum	Source (inline, pump, etc.)	Inline (intake manifold)		
	Reservoir (volume in.3)	N.A.		
	Pump-type (elec. gear driven, belt driven)	N.A.		
Traction assist	Operational speed range	N.A.		
	Type (engine or brake intervention)	N.A.		
Anti-lock device	Front/rear (std., opt., n.a.)	N.A.		
	Manufacturer	N.A.		
	Type (electronic, mech.)	N.A.		
	Number sensors or circuits	N.A.		
	Number anti-lock hydraulic circuits	N.A.		
	Integral or add-on system	N.A.		
	Yaw control (yes, no)	N.A.		
Hydraulic power source (ele., vac. mtr., pow. strg.)		N.A.		
tc	Effective area cm ² (in ²)	140/337 (21.7/52.2)		
	Gross Lining area cm ² (in.2)**(F/R)	140/337 (21.7/52.2)		
	Swept area cm ² (in.2)*** (F/R)	1260/553 (195.3/85.7)		
Rotor	Outerworking diameter	F/R	290/- mm	
	Inner working diameter	F/R	207/- mm	
	Thickness	F/R	10/- mm	
	Material & type (vented/solid)	F/R	Cast iron, Solid	
Drum	Diameter & width (mm)	F/R	-/220 x 40	
	Type and material	F/R	-/cast iron	
Wheel cylinder bore (mm)		51.1/22.22		
Master cylinder	Bore/stroke	F/R	22.22/29.5 mm	
Pedal arc ratio		5.4:1		
Line pressure at 445 N(100lb.) pedal load kPa(psi)		620		
Lining clearance		F/R	self adjusting / self adjusting	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Bonded
		Rivet size		N.A.
		Manufacturer		NISSHINBO INDUSTRIES, INC
		Lining code****		NBK N301EE
		Material		Resin mold
		****	Primary or out-board	98 X 40 X 10
		Size	Secondary or in-board	98 X 40 X 10
	Shoe thickness (no lining)		5 mm	
	Rear wheel	Bonded or riveted (rivets/seg.)		Bonded
		Manufacturer		JAPAN BRAKE industrial Co., Ltd.
		Lining code****		JB NL 85 EE
		Material		Resin mold
		****	Primary or out-board	211 x 40 x 5
		Size	Secondary or in-board	211 x 40 x 5
Shoe thickness (no lining)		2		

Excludes rivet holes, grooves, chamfer, etc.

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

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

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1.3 L Throttle body injection softtop 2/4 WD

Tire And Wheels (Standard)

Tires	Tire size (service description)		4WD : P205/70R15	2WD : P195/75R15	MFR; BRIDGESTONE	
	Type (bias, radial, steel, nylon, etc.)		Radial		Material	Belt
	Inflation over- pressure (cold) for recommended max. vehicle load	Front kPa (psi)	140(20)			
		Rear kPa (psi)	140(20)		Side Wall	Polyester ; 2WD(1) / 4WD(2)
	Rev./mile-at 70 km/h (45 mph)		4WD :797	2WD :783	Style	Four season tread design
Wheels	Type & material		Drop center, Steel			
	Rim (size & flange type)		15 x 5 1/2JJ			
	Wheel offset		10 mm			
	Attachment	Type (bolt or stud & nut)	Stud & nut			
		Circle diameter	139.7 mm			
Number & size		5-M12				
Spare	Tire and wheel		Same size			
	Storage position & location (describe)		Vertical , Outside of back door			

Tire And Wheels (Optional)

○	Tire size (service description)	N.A.
○	Type (bias, radial, steel, nylon, etc.)	N.A.
○	Wheel (type & material)	N.A.
○	Rim (size, flange type and offset)	N.A.
○	Tire size (service description)	N.A.
○	Type (bias, radial, steel, nylon, etc.)	N.A.
○	Wheel (type & material)	N.A.
○	Rim (size, flange type and offset)	N.A.
○	Tire size (service description)	N.A.
○	Type (bias, radial, steel, nylon, etc.)	N.A.
○	Wheel (type & material)	N.A.
○	Rim (size, flange type and offset)	N.A.
○	Tire size (service description)	N.A.
○	Type (bias, radial, steel, nylon, etc.)	N.A.
○	Wheel (type & material)	N.A.
○	Rim (size, flange type and offset)	N.A.
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)	N.A.
	Drum diameter	N.A.
	Lining size (length x width x thickness)	N.A.

MVMA Specifications
METRIC (U.S. Customary)

Vehicle Line SAMURAI

Model Year 1994 **Issued** 93.8.29 **Revised (*)**

Model Code/Description And/Or
 Engine Code/Description

1.3 L Throttle body injection
 softtop

Steering

Manual (std., opt., n.a.)		Std.		
Power (std., opt., n.a.)		N.A.		
Speed-sensitive (std., opt., n.a.)		N.A.		
4-wheel steering (std., opt., n.a.)		N.A.		
Adjustable steering wheel/column (tilt, telescope, other)	Type	N.A.		
	Manufacturer	N.A.		
	(std., opt., n.a.)	N.A.		
Wheel diameter** (W9) SAE J1100	Manual	400 mm		
	Power			
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.9	
		Curb to curb (l. & r.)	10.2	
	Inside rear	Wall to wall (l. & r.)	N.A.	
		Curb to curb (l. & r.)	N.A.	
Scrub Radius*				
Manual	Gear	Type	Recirculating ball	
		Manufacturer	Nippon seiko K.K.	
		Ratios	Gear	15.6-18.1
			Overall	21.6
No. wheel turns (stop to stop)		3.3		
Power	Type (coaxial, elec., hyd., etc.)		N.A.	
	Manufacturer		N.A.	
	Gear	Type	N.A.	
		Ratios	Gear	N.A.
			Overall	N.A.
	Pump (drive)		N.A.	
	No. wheel turns (stop to stop)		N.A.	
Linkage	Type		Cross linkage	
	Location (front or rear of wheel, other)		Front	
	Tie rods (one or two)		1	
Steering axis	Inclination at camber (deg.)		30.9 (Inclination of column)	
	Bearings (type)	Upper	Ball bearing	
		Lower	Rubber bushing	
		Thrust	N.A.	
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 23

MVMA Specifications Vehicle Line SAMURAI
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1.3 L Throttle body injection softtop

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	3.5
		Camber (deg.)	1
		Toe-in outside track-mm (in.)	2 - 6 mm (0.08 - 0.24in)
	Service reset*	Caster (deg.)	N.A.
		Camber (deg.)	N.A.
		Toe-in - mm (in.)	Adjustable
Periodic M.V. inspection	Caster (deg.)	3.5° +/- 1°	
	Camber (deg.)	1° +/- 0.75°	
	Toe-in - mm (in.)	2 - 6 mm	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	0°
		Toe-in outside track-mm (in.)	0 mm
	Service reset*	Camber (deg.)	N.A.
		Toe-in - mm (in.)	N.A.
	Periodic M.V. inspection	Camber (deg.)	0° +/- 1°
		Toe-in - mm (in.)	0 mm +/- 2 mm

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

Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Analog	
	Trip odometer (std., opt., n.a.)	std.	
Head-up display	Standard, optional, not available		N.A.
	Type	Secondary, opto-electronic	N.A.
	Speedometer	Digital	N.A.
	Status / warning indicators	Turn signals, high beam, low fuel, check gauges	N.A.
	Brightness control	Day / night mode, adjustable	N.A.
EGR maintenance indicator	"CHECK ENGINE" Lamp (Federal Only)		
Charge indicator	Type	Telltale warning light	
	Warning device (light, audible)	Light	
Temperature indicator	Type	Electric gauge with pointer	
	Warning device (light, audible)	N.A.	
Oil pressure indicator	Type	Telltale warning light	
	Warning device (light, audible)	Light	
Fuel indicator	Type	Electric gauge with pointer	
	Warning device (light, audible)	N.A.	
Windshield wiper	Type (standard)	Electric 2 speed	
	Type (optional)	None	
	Blade length	Dr.: 305 mm As: 305 mm	
	Swept area cm ² (in. ²)	2780 (431)	
Windshield washer	Type (standard)	Electric, Lever control : Pull combination switch lever	
	Type (optional)	N.A.	
	Fluid level indicator (light, audible)	N.A.	
Rear window wiper, wiper/washer(std., opt., n.a.)	None		
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		

Engine Code/Description

1.3 L Throttle body injection softtop

Electrical - Supply system

Battery	Manufacturer	FURUKAWA
	Model, std., (opt.)	55B24R(MF)
	Voltage	12 V
	Amps at 0°F cold crank	340 Amp
	Minutes-reserve capacity	71 min.
	Amps/hrs.-20hr. rate	45 AH
	Location	Right hand side of engine compartment
Alternator	Manufacturer	NIPPON DENSO
	Rating (idle/max. rpm)	50A
	Ratio (alt. crank/rev.)	2 : 1
	Output at idle (rpm, park)	30A (800rpm)
	Optional (type & rating)	None
Regulator	Type	Integral with alternator

Electrical - Starting System

Motor	Manufacturer	MITSUBISHI ELECTRIC
	Current drain _____ °C(°F)	200 A max
	Power rating kw (hp)	MT : 0.9
Motor drive	Engagement type	MT : Positive shift solenoid
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Electric spark advance, Std.
	Other (specify)	High energy ignition
Coil	Manufacturer	NIPPON DENSO
	Model	101311-5950
	Current	Engine stopped - A 0 Engine Idling - A 1.5 A max.
Spark plug	Manufacturer	NGK ND
	Model	BPR5ES W20EPR-U
	Thread (mm)	M14 x 1.25
	Tightening torque N-m (lb-ft)	20-30(15-22)
	Gap	0.8 mm
	Number per cylinder	1 Ignition timing 8°BTDC
Distributor	Manufacturer	NIPPON DENSO
	Model	229100-7180

Electrical - Suppression

Locations & type	Metax oxide coating rotor (distributor) High tension cord with resister Spark plug with resister
------------------	--

Model Code/Description

softtop

Body

Structure	Body with chassis frame
Bumper system front - rear	Front : Steel Rear : Steel
Anti-corrosion treatment	1. Surface treated steel plates 2. Vinly chloride coating (bottom / side of floor)

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		Enamel
Hood	Material & mass	Steel 11.9 kg
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal & external
Trunk lid	Material & mass	N.A.
	Type (counterbalance, other)	N.A.
	Internal release control (elec., mech., n.a.)	N.A.
Hatch-back lid	Material & mass	N.A.
	Type (counterbalance, other)	N.A.
	Internal release control (elec., mech., n.a.)	N.A.
Tailgate	Material & mass	Steel, 13.8 kg
	Type (drop, lift, door)	Door
	Internal release control (elec., mech., n.a.)	N.A.
Vent window control (crank, friction, pivot, power)	Front	N.A.
	Rear	softtop : Pivot hardtop : N.A.
Window regulator type (cable, tape, flex drive, etc.)	Front	X arm
	Rear	N.A.
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Bucket type, Steel pipe frame, Urethane mold
	Rear	N.A.
	3rd seat	N.A.
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket type, Steel pipe frame, Urethane mold
	Rear	N.A.
	3rd seat	N.A.

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Body with chassis frame
---	-------------------------

Model Code/Description

softtop

Restraint System

Seating Position			Left	Center	Right
Active(*)	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Lap and shoulder belt, ELR	N.A.	Lap and shoulder belt, ALR + ELR
		Second seat	N.A.	N.A.	N.A.
	Standard / optional	Third seat	N.A.	N.A.	N.A.
Passive(*)	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual-lap belt)	First seat	N.A.	N.A.	N.A.
		Second seat	N.A.	N.A.	N.A.
	Standard / optional	Third seat	N.A.	N.A.	N.A.

Glass	SAE Ref. No.	
Windshield glass exposed surface area cm2 (in.2)	S1	softtop : 4510 cm2 (699in2) hardtop : 4510 cm2 (699in2)
Side glass exposed surface area cm2 (in.2) - total 2-sides	S2	softtop : 6660 cm2 (1032in2) hardtop : 12484 cm2 (1935in2)
Backlight glass exposed surface area cm2(in.2)	S3	softtop : N.A. hardtop : 3393 cm2 (526in2)
Total glass exposed surface area cm2(in.2)	S4	softtop : 111170 cm2 (1731in2) hardtop : 20387 cm2 (3160in2)
<input type="checkbox"/> Windshield glass (type/thickness)		Laminated glass 5.76
<input type="checkbox"/> Side glass (type/thickness)		Tempered glass 3.5
<input type="checkbox"/> Backlight glass (type/thickness)		Tempered glass 3.5
<input type="checkbox"/> Tinted (yes/no, location)		Alternatively Optional
<input type="checkbox"/> Solar control (yes / no, coated / batched, location)		N.A.

Headlamps

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

*ELR-ALR functions as ELR in normal use and, after the webbing is fully pulled, functions as ALR for securing child seat. The function returns to ELR when certain length of webbing is retracted.

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Engine Code/Description

1.3 L Throttle body injection softtop

Climate Control System

Air conditioning (std., opt., man., auto.)		Optional, Manual control
Condenser	Type	Corrugated fin type
	Eff. face area (sq.mm.)	134,400
	Fins per inch	5.96
Evaporator	Type	Corrugated fin type
	Eff. face area (sq.mm.)	37,520
	Fins per inch	14.5
Heater core	Material	Copper
	Eff. face area (sq.mm.)	18,270
	Fins per inch	23.6
Compressor	Type	Swash
	Displacement(cc.)	81.6
	Manufacturer	NIPPON DENSO CO., LTD.
	A/C pulley ratio	0.87
Accumulator	Type	N.A.
	Height (mm.)	N.A.
	Diameter(mm)	N.A.
Receiver	Type	Dryer, Sight glass, Safety device
	Height (mm.)	193
	Diameter(mm)	67
Refrigerant control (CCOT, TVS, etc.)		Thermostatic expansion valve
Heater water valve (yes/no)		Yes
Refrigerant (R - 12, R - 134a, etc.)		R - 12
Charge level (lbs. - oz.)		1.32 lbs
Cold engine lockout switch (yes / no)		No
Wide open throttle cutout switch (yes / no)		No

Model Code/Description

softop

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

	Clock (digital, analog)	Digital
	Compass / thermometer	N.A.
	Console (floor, overhead)	Floor
⊗	Defroster, electric windshield	N.A.
	Defroster, electric backlight	N.A.
	Diagnostic monitor (integrated, individual)	N.A.
	Instrument cluster (list instruments)	N.A.
	Keyless entry	N.A.
Electronic	Tripminder (avg. spd., fuel)	N.A.
	Voice alert (list items)	N.A.
	Other	None
	Fuel door lock (remote, key, electric)	Key
	Auto head on / off delay, dimming	N.A.
	Cornering	N.A.
	Courtesy (map, reading)	Map lamp equipped
	Door lock, ignition	N.A.
	Engine compartment	N.A.
Lamps	Fog	Optional
	Glove compartment	N.A.
	Trunk	N.A.
	Illuminated entry system (list lamps, activation)	N.A.
	Other	Center high mounted stop lamp
	Day / night (auto.man.)	Manual
Mirrors	L.H. (remote, power, heated)	Manual
	R.H. (convex, remote, power, heated)	Convex, Manual
	Visor vanity (RH / LH, illuminated)	N.A.
	Navigation system (describe)	N.A.
	Parking brake-auto release (warning light)	N.A.

Model Code/Description

softtop

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

Power equipment	Deck lid (release, pull down)		N.A.
	Door locks (manual, automatic, describe system)		N.A.
	Seats	2 - 4 - 6 way, etc.	N.A.
		Reclining (R.H., L.H.)	N.A.
		Memory (R.H., L.H., present recline)	N.A.
		Support (lumbar, hip, thigh, etc.)	N.A.
		Heated (R.H., other)	N.A.
	Side windows		N.A.
	Vent windows		N.A.
	Rear windows		N.A.
Radio systems	Antenna (location, whip, w / shield, power)		Left-front pillar, Whip
	Standard		Antenna ONLY
	Optional	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo AM/FM Stereo with cassette
	Speaker (number, location)		2, Instrument panel mounted 2, Back door trim
Roof : open air or fixed (flip-up, sliding, "T")		Canvas top : Canvas, Flip-up	Van : N.A.
Speed control device		N.A.	
Speed warning device (light, buzzer, etc.)		N.A.	
Tachometer (rpm)		Std.	
Telephone system (describe)		N.A.	
Theft deterrent system		Steering lock type	

Trailer Towing

Towing capable	Yes / No	Yes
Engine / transmission / axle	Std / Opt	Std
Tow class (I, II, III)*	Std / Opt	Opt
Max. gross trailer wgt. (lbs.)	Std / Opt	1000 Opt
Max. trailer tongue load (lbs.)	Std / Opt	100 Opt
Towing package available	Yes / No	Yes

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

MVMA Specifications Vehicle Line SAMURAI

METRIC (U.S. Customary)

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Issued 93.8.29

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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.

Model Code/Description

SAE Ref. No.

softtop

2/4 WD

Width

Tread (front)	W101	1300 (51.2)
Tread (rear)	W102	1310 (51.6)
Vehicle width	W103	1540 (60.6)
Body width at Sg RP (front)	W117	1395
Vehicle width (front doors open)	W120	2930
Vehicle width (rear doors open)	W121	N.A.
Tumble-home (degrees)	W122	10°30'
Outside mirror width	W410	1704

Length

Wheelbase	L101	2030 (79.9)
Vehicle length	L103	softtop:3430 (135.0)
Overhang (front)	L104	580 (22.8)
Overhang (rear)	L105	softtop:815 (32.1) hardtop:830 (32.7)
Upper structure length	L123	softtop:2000 (78.7)
Rear wheel C/L "X" coordinate	L127	1620 (63.8)

Height**

Passenger distribution (front/rear)	PD1,2,3	2/2	**
Trunk/cargo load			**
Vehicle height	H101	4WD:1641 (64.6) 2WD:1633 (64.3)	**
Cowl point to ground	H114	4WD:1142 (45.0) 2WD:1135 (44.7)	
Deck point to ground	H138	4WD:1040 (40.9) 2WD:1032 (40.6)	
Rocker panel-front to ground	H112	4WD:354 (13.9) 2WD:346(13.6)	
Rocker panel-rear to ground	H111	4WD:357 (14.1 in) 2WD:352(13.9)	
Windshield slope angle (degrees)	H122	29.8°	
Backlight slope angle(degrees)	H121	softtop:9.3°	

Ground Clearance**

Front bumper to ground	H102	4WD : 388(15.3) 2WD :379(14.9)
Rear bumper to ground	H104	4WD : 427(16.8) 2WD :422 (16.6)
Bumper to ground front at curb mass (wt.)	H168	4WD : 388(15.3) 2WD : 381(15.0)
Bumper to ground rear at curb mass (wt.)	H105	4WD : 449(17.7) 2WD : 442(17.4)
Angle of approach (degrees)	H106	4WD : 42.8° 2WD :42.0°
Angle of departure (degrees)	H107	4WD : 25.6° 2WD : 24.7°
Ramp breakover angle (degrees)	H147	4WD : 29.3° 2WD :28.8°
Axle differential to ground	H163	4WD : 205 /205 2WD : 207 (8.14)
Min. running ground clearance	H155	4WD : 205 (8.07) 2WD : 207 (8.14)
Location of min. run ground clearance		4WD :Front Differential 2WD :Rear Differential

** 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.

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METRIC (U.S. Customary)

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Vehicle Dimensions See Key Sheets for definitions

Model Code/Description

SAE Ref. No.

softtop / hardtop 2/4 WD

Front Compartment

SgRP front "X" coordinate	L31	964
Effective head room	H61	softtop : 1020(40.2)
Max. eff. leg room (accelerator)	L34	974(38.3)
SgRP to heel point	H30	343
SgRP to heel point	L53	712
Back angle (degrees)	L40	18°
Hip angle (degrees)	L42	86°
Knee angle (degrees)	L44	104°
Foot angle (degrees)	L46	87°
Design H-point front travel	L17	180
Normal driving & riding seat track trvl.	L23	180
Shoulder room	W3	1210(47.6)
Hip room	W5	1200(47.2)
*** Upper body opening to ground	H50	4WD : 1492 2WD : 1486
Steering wheel maximum diameter*	W9	400
Steering wheel angle (degrees)	H18	30.54°
Accel. heel pt. to steer. whl. cntr	L11	294
Accel. heel pt. to steer. whl. cntr	H17	715
Undepressed floor covering thickness	H67	6

Rear Compartment

SgRP point couple distance	L50	N.A.
Effective head room	H63	N.A.
Min. effective leg room	L51	N.A.
SgRP (second to heel)	H31	
Knee clearance	L48	N.A.
Shoulder room	W4	N.A.
Hip room	W6	N.A.
*** Upper body opening to ground	H51	N.A.
Back angle (degrees)	L41	N.A.
Hip angle (degrees)	L43	N.A.
Knee angle (degrees)	L45	N.A.
Foot angle (degrees)	L47	N.A.
Depressed floor covering thickness	H73	

Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	N.A.
*** Litter height	H195	606

Interior Volumes (EPA Classification)

Vehicle class		special purpose vehicle
Interior volume index (cu. ft.)**		2371 L (83.73 cu-ft)
Trunk / cargo index (cu. ft.)		787 L (25.8 cu-ft)

* See page 14.

** See definition page 33.

All linear dimensions are in millimeters (inches) unless otherwise noted.

*** EPA Loaded Vehicle Weight, Loading Conditions

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Vehicle Dimensions See Key Sheets for definitions

Model Code/Description

Station Wagon / MPV*
- Third Seat

SAE Ref. No. softtop

Seat facing direction	SD1	N.A.
SgRP couple distance	L85	N.A.
Shoulder room	W85	N.A.
Hip room	W86	N.A.
Effective leg room	L86	N.A.
Effective head room	H86	N.A.
SgRP to heel point	H87	N.A.
Knee clearance	L87	N.A.
Back angle (degrees)	L88	N.A.
Hip angle (degrees)	L89	N.A.
Knee angle (degrees)	L90	N.A.
Foot angle (degrees)	L91	N.A.

Station Wagon / MPV* - Cargo Space

Cargo length (open front)	L200	N.A.
Cargo length (open second)	L201	N.A.
Cargo length (closed front)	L202	canvas : 660
Cargo length (closed second)	L203	N.A.
Cargo length at belt (front)	L204	678 (26.69 in)
Cargo length at belt (second)	L205	N.A.
Cargo width (wheelhouse)	W201	890
Rear opening width at floor	W203	canvas : 1098
Opening width at belt	W204	canvas : 1087
Min. rear opening width above belt	W205	canvas : 954
Cargo height	H201	canvas : 1032
Rear opening height	H202	canvas : 960
Tailgate to ground height	H250	4WD : 608 2WD : 600
Front seat back to load floor height	H197	canvas : 771
Cargo volume index m3(ft.3)	V2	N.A.
Hidden cargo volume index m3(ft.3)	V4	N.A.
Cargo volume index-rear of 2-seat	V10	N.A.
Cargo volume index*	V6	0.7872 m3 (27.80 cu.ft.)
Cargo width at floor*	W500	1110 (43.70 in)
Maximum cargo height*	H605	1046 (41.18 in)

Hatchback - Cargo Space

Cargo length at front seatback height	L208	N.A.
Cargo length at floor (front)	L209	N.A.
Cargo length at second seatback height	L210	N.A.
Cargo length at floor (second)	L211	N.A.
Front seatback to load floor height	H197	N.A.
Second seatback to load floor height	H198	N.A.
Cargo volume index m3(ft.3)	V8	N.A.
Hidden cargo volume index m3(ft.3)	V4	N.A.
Cargo volume index-rear of 2-seat	V11	N.A.

All linear dimensions are in millimeters (inches) unless otherwise noted.

*MPV - Multipurpose Vehicle

** EPA Loaded Vehicle Weight, Loading Conditions

Model Code/
Description

softtop

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
Front(1)	
Front(2)	
Rear(1)	
Rear(2)	
Note: Provide 3 of 4 Fiducial Mark Locations	
Front W21** L54** H81** *** H161** *** H163**	
Rear W22** L55** H82** *** H162** *** H164**	

* Reference-SAE Recommended Practice, J182a, motor Vehicle Fiducial Marks.

**Reference-SAE Recommended Practice J1100-Motor Vehicle Dimensions.

All linear dimensions are in millimeters (inches) unless otherwise noted.

*** EPA Loaded Vehicle Weight, Loading Conditions

