



O R I G I N A L

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1988

Manufacturer Suzuki Motor Co., LTD. Hamamatsu-Nishi P.O. Box 1, 432-91, Hamamatsu, Japan	Vehicle Line CHEVROLET SPRINT	
Mailing Address Chevrolet-Pontiac-Canada Group Engineering Center General Motors Corporation 30003 Van Dyke Warren, MI 48090-9060	Issued June, 1987	Revised September, 1987

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.

Blank Forms Provided by Technical Affairs Division

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MVMA Specifications Form

METRIC (U.S. Customary)

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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) specifications 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.



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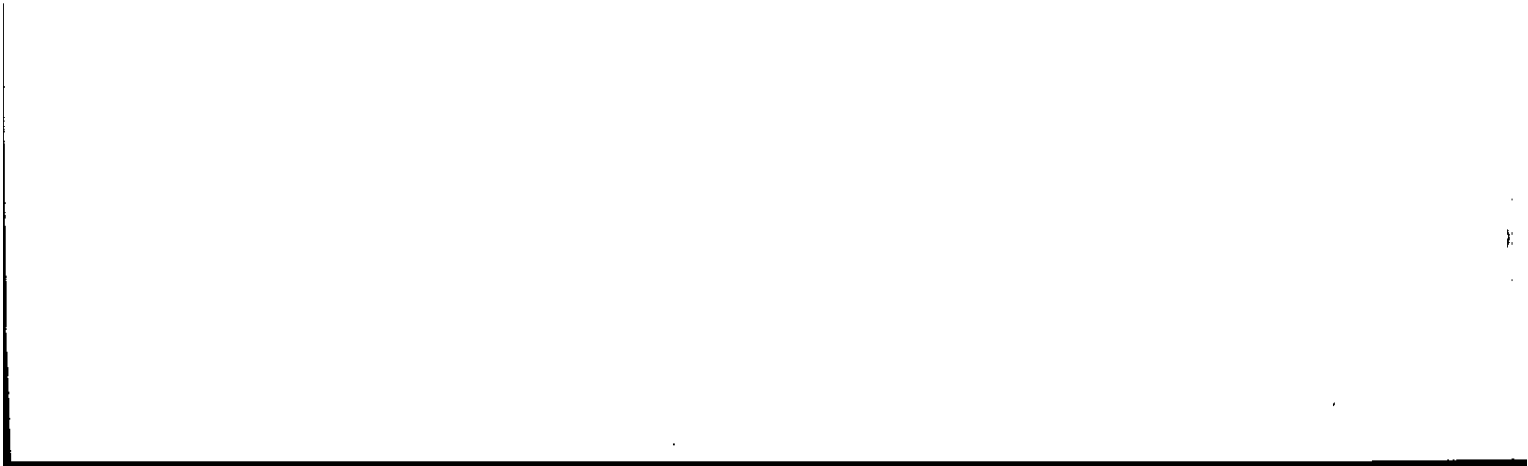
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MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (*) _____

Vehicle Models

Model Description & Drive (FWD/RWD)	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)
FRONT WHEEL DRIVE				
		MODEL NUMBER	FRONT/REAR	
SPRINT				
2-Door Hatchback Sedan		1MR08	2/2	40 (88)
4-Door Hatchback Sedan		1MR68	2/2	40 (88)
FIREFLY				
2-Door Hatchback Sedan		7MR08	2/2	40 (88)
4-Door Hatchback Sedan		7MR68	2/2	40 (88)
TURBO SPRINT				
2-Door Hatchback Sedan		1MR08	2/2	40 (88)
TURBO FIREFLY				
2-Door Hatchback Sedan		7MR08	2/2	40 (88)
SPRINT METRO				
2-Door Hatchback Sedan (U.S. only)		1MS08	2/2	40 (88)

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Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Power Teams (Indicate whether standard or optional)
 SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg/100 kPa atmospheric pressure.

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION/ TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in ³)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				Power kW (bhp)	Torque N·m (lb. ft.)			
SPRINT/FIREFLY Base - All States	L-3 1.0 L (61)	2-Bb1 Carb.	9.5:1	48 HP	77	S	Man. 5-speed (3.42 Low) - Base	4.10
				@ 5,100	@ 3,200		Auto. 3-speed Avail.	
SPRINT METRO except High Altitude	L-3 1.0 L (61)	2-Bb1 Carb.	9.8:1	46 HP @ 4,700	78 @ 3,200	S	Man. 5-speed (3.42 Low) - Base	3.79
TURBO SPRINT TURBO FIREFLY	L-3 1.0 L (61)	*EFI	8.3:1	70 HP @ 5,500	107 @ 3,500	S	Man. 5-speed (3.42 Low) - Base	4.10
* - Electronic Fuel Injection								

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR RPO LM9	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO
---	---

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Inline, Front SOHC Transverse, front of engine faces right side of vehicle	
Manufacturer	Suzuki	
No. of cylinders	3	
Bore	74 mm	
Stroke	77 mm	
Bore spacing (C/L to C/L)	84 mm	
Cylinder block material & mass kg (lbs.) (machined)	Aluminum alloy, 11.85 (26.13)	
Cylinder block deck height	186.8 mm	
Cylinder block length	288 mm	
Deck clearance (minimum) (above or below block)	0 mm	0.2 mm (above)
Cylinder head material & mass kg (lbs.)	Aluminum alloy, 0.55 (1.21)	
Cylinder head volume (cm ³)	32.2	
Cylinder liner material	Cast iron	
Head gasket thickness (compressed)	1.2 mm	
Minimum combustion chamber total volume (cm ³)	38.96	37.61
Cyl. no. system (front to rear)*	L. Bank	1-2-3
	R. Bank	-
Firing order	1-3-2	
Intake manifold material & mass [kg (lbs.)]**	Aluminum alloy, 1.74 (3.84)	
Exhaust manifold material & mass [kg (lbs.)]**	Cast iron, 2.64 (5.82)	
Recommended fuel (leaded, unleaded, diesel)	Unleaded	
Fuel antiknock index (R + M) 2	87	
Total dressed engine mass (wt) dry***	67 kg (M/T), 60 kg (A/T)	66 kg

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy, 217 (7.7)
--	---------------------------

Engine - Camshaft

Location	In cylinder head	
Material & mass kg (weight, lbs.)	Cast iron, 1.51 (3.33)	
Drive type	Chain / belt	Belt
	Width / pitch	19.1/9.53 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:

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

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID)
 EFI
 TURBO

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Inline, Front SOHC Transverse, front of engine faces right side of vehicle	
Manufacturer	Suzuki	
No. of cylinders	3	
Bore	74 mm	
Stroke	77 mm	
Bore spacing (C/L to C/L)	84 mm	
Cylinder block material & mass kg (lbs.) (machined)	Aluminum alloy, 11.85 (26.13)	
Cylinder block deck height	186.8 mm	
Cylinder block length	288 mm	
Deck clearance (minimum) (above or below block)	0 mm	
Cylinder head material & mass kg (lbs.)	Aluminum alloy, 0.55 (1.21)	
Cylinder head volume (cm ³)	36.0	
Cylinder liner material	Cast iron	
Head gasket thickness (compressed)	1.2 mm	
Minimum combustion chamber total volume (cm ³)	45.45	
Cyl. no. system (front to rear)*	L. Bank	1-2-3
	R. Bank	-
Firing order	1-3-2	
Intake manifold material & mass [kg (lbs.)]**	Aluminum alloy, 1.89 (4.17)	
Exhaust manifold material & mass [kg (lbs.)]**	Cast iron, 1.75 (3.86)	
Recommended fuel (leaded, unleaded, diesel)	Unleaded	
Fuel antiknock index (R + M) 2	87	
Total dressed engine mass (wt) dry***	78 kg	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy, 232 (8.2)
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Engine - Camshaft

Location	In cylinder head	
Material & mass kg (weight, lbs.)	Cast iron, 1.51 (3.33)	
Drive type	Chain / belt	Belt
	Width / pitch	19.1/9.53 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:

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

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Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR RPO LMS	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO
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Engine - Valve System

Hydraulic lifters (std., opt., NA)	NA	
Valves	Number intake / exhaust	3/3
	Head O.D. intake / exhaust	36.0/30.0 mm

Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))*	Forged steel, 0.415 (0.915)	Forged steel, 0.360 (0.794)
--	-----------------------------	-----------------------------

Engine - Crankshaft

Material & mass (kg., (weight, lbs.))*	Nodular iron, 6.666 (14.699)	Nodular iron, 5.900 (13.010)
End thrust taken by bearing (no.)	2	
Ø Length & number of main bearings	18 mm, 5	
Seal (material, one, two piece design, etc.)	Front	One
	Rear	One

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	333 (48) @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 (qt.)	3.5

Engine - Diesel Information

Diesel engine manufacturer	} Not applicable	
Glow plug, current drain at 0°F		
Injector nozzle		Type
		Opening pressure [kPa (psi)]
Pre-chamber design		
Fuel injection pump		Manufacturer
		Type
Fuel injection 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

Turbo charger - manufacturer	Not applicable
Super charger - manufacturer	"
Charge cooler	"

*Finished State

Ø 1988 Format Change

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID)
 EFI
 TURBC

Engine - Valve System

Hydraulic lifters (std., opt., NA)	NA
Valves	Number Intake / exhaust
	Head O.D. Intake / exhaust

3/3
 36.0/30.0 mm

Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))*	Forged steel, 0.455 (1.003)
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Engine - Crankshaft

Material & mass (kg., (weight, lbs.))*	Nodular iron, 6.666 (14.699)
End thrust taken by bearing (no.)	2
Length & number of main bearings	18 mm, 5
Seal (material, one, two piece design, etc.)	Front
	Rear

One
 One

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	392 (57) @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 (qt.)	3.5

Engine - Diesel Information

Diesel engine manufacturer	}	
Glow plug, current drain at 0°F		
Injector nozzle		Type
		Opening pressure [kPa (psi)]
Pre-chamber design		
Fuel injection pump		Manufacturer
		Type
Fuel injection pump drive (belt, chain, gear)		Not applicable
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

Turbo charger - manufacturer	ISHIKAWAJIMA HARIMA
Super charger - manufacturer	Not applicable
Charge cooler	Toyo Radiator

*Finished State

Ø 1988 Format Change

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Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61CID) 2-BBL. CARBURETOR RPO LM9	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO
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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard
Coolant fill location (rad., bottle)		Bottle, coolant recovery
Radiator cap relief valve pressure [kPa (psi)]		88.2 (12.8)
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open at °C (°F)	88 (190)
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	15 l/min.
	Number of pumps	1
	Drive (V-belt, other)	V-belt
	Bearing type	Ball
	Impeller material	Steel
Housing material		Aluminum alloy
By-pass recirculation [type (inter., ext.)]		External
Cooling system capacity	With heater-L(qt.)	4.3 (4.5)
	With air cond.-L(qt.)	4.3 (4.5)
	Opt. equipment [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	Std.
	Type (cross-flow, etc.)	Vertical flow
	Construction (fin & tube mechanical, braze, etc.)	Fin & tube
	Material, mass [kg (wgt. lbs.)]	Copper & brass, 1.6 (3.5)
	Width	358 mm
	Height	350 mm
	Thickness	16 mm
	Fine per inch	10 (Manual), 11.3 (Automatic)
Radiator end tank material		Plastic
Fan	Std., elec., opt.	Std. Elec.
	Number of blades & type (flex, solid, material)	4, Solid, Plastic
	Diameter & projected width	300 mm
	Ratio (fan to crankshaft rev.)	—
	Fan cutout type	—
	Drive type (direct, remote)	Electric Motor Drive
	RPM at idle (elec.)	2,100
	Motor rating (wattage) (elec.)	80
	Motor switch (type & location) (elec.)	Wax type, on thermostat cap
	Switch point (temp., pressure) (elec.)	Temp., 96°C - ON, 91°C - OFF
Fan shroud (material)	Steel	

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (*) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID)
 EFI
 TUR30

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Standard	
Coolant fill location (rad., bottle)	Bottle, coolant recovery	
Radiator cap relief valve pressure [kPa (psi)]	88.2 (12.8)	
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open at °C (°F)	82 (180)
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	15 l/min.
	Number of pumps	1
	Drive (V-belt, other)	V-belt
	Bearing type	Ball
	Impeller material	Steel
Housing material	Aluminum alloy	
By-pass recirculation [type (inter., ext.)]	External	
Cooling system capacity	With heater-L(qt.)	4.6 (4.8)
	With air cond.-L(qt.)	4.6 (4.8)
	Opt. equipment [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	Std.
	Type (cross-flow, etc.)	Vertical flow
	Construction (fin & tube mechanical, braze, etc.)	Fin & tube
	Material, mass [kg (wgt. lbs.)]	Copper & brass, 2.2 (4.9)
	Width	328 mm
	Height	325 mm
	Thickness	32 mm
Fins per inch	8	
Radiator end tank material	Brass	
Fan	Std., elec., opt.	Std. Elec.
	Number of blades & type (flex, solid, material)	4, Solid, Plastic
	Diameter & projected width	300 mm
	Ratio (fan to crankshaft rev.)	—
	Fan cutout type	—
	Drive type (direct, remote)	Electric Motor Drive
	RPM at idle (elec.)	2,100
	Motor rating (wattage) (elec.)	80
	Motor switch (type & location) (elec.)	Wax type, on thermostat cap
	Switch point (temp., pressure) (elec.)	Temp., 91°C - ON, 86°C - OFF
Fan shroud (material)	Steel	

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb. Engine Code	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR RPO LM9	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO	1.0 LTR L3 (61 CID) EFI TURBO
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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.	Carburetor	Fuel injection		
Manufacturer	Hitachi	} Not applicable		
Carburetor	Choke (type)		Full auto wax type	
	Idle spd.-rpm (spec. neutral or drive and propane if used)		Manual	750 Neutral
			Automatic	850 Neutral
Idle A/F mix.	Preset - no adjustment provided			
Fuel injection	Point of injection (no.)	---	Port injection (3)	
	Constant, pulse, flow	---	Electronic control	
	Control (electronic, mech.)	---		
	System pressure [kPa (psi)]	---		250 (36)
Intake manifold heat control (exhaust or water thermostatic or fixed)	Water (coolants)	N/A		
Air cleaner type	Standard	Replaceable paper element, single snorkel		
	Optional	---		
Fuel pump	Type (elec. or mech.)	Mechanical	Electrical	
	Location (eng., tank)	Engine	Fuel tank	
	Pressure range [kPa (psi)]	29 (4)	250 (36)	

Fuel Tank

Capacity (refill L (gallons))	33 (8.7)		
Location (describe)	Under-floor-rear		
Attachment	Bolt		
Material & Mass (kg (weight lbs))	Steel, 7.0 (15.4)	Steel, 8.0 (17.6)	
Filler pipe	Location & material	Left side rear quarter panel, Steel	
	Connection to tank	Rubber hose	
Fuel line (material)	Steel		
Fuel hose (material)	Rubber		
Return line (material)	Steel		
Vapor line (material)	Steel		
Extended range tank	Opt., n.s.	Not available	
	Capacity [L (gallons)]	Not applicable	
	Location & material	"	
	Attachment	"	
Auxiliary tank	Opt., n.s.	Not available	
	Capacity [L (gallons)]	Not applicable	
	Location & material	"	
	Attachment	"	
	Selector switch or valve	"	
	Separate fill	"	

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Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR RPO LM9	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO
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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Feedback carb. + 3 way cata. + EGR + Pulse air
	Air Injection	Pump or pulse	Pulse
		Driven by	—
		Air distribution (head, manifold, etc.)	—
		Point of entry	Exhaust manifold port
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Back pressure controlled
		Exhaust source	Manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Manifold
	Catalytic Converter	Type	Single bed
		Number of	1
Location(s)		Under floor	
Volume [L (in ³)]		0.95 (57.98)	
	Substrate type	Monolith	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction system
	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum
	Discharges (to intake manifold, other)		Intake manifold
	Air inlet (breather cap, other)		Carburetor air cleaner
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	Canister
	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))		One, Straight thru
Resonator no. & type		One, Straight thru
Exhaust pipe	Branch o.d., wall thickness	—
	Main o.d., wall thickness	48.6 - 1.6 mm & 38.1 - 1.2 mm
	Material & Mass (kg (weight lbs))	Inner: Stainless steel, Outer: Aluminum coated steel
Intermediate pipe	o.d. & wall thickness	45.0 - 1.6 mm & 35.0 - 1.2 mm
	Material & Mass (kg (weight lbs))	Inner: Stainless steel, Outer: Aluminum coated steel
Tail pipe	o.d. & wall thickness	35.0 - 1.2 mm
	Material & Mass (kg (weight lbs))	Aluminum coated steel

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Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID)
 EFI
 TURBO

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		EFI + TWC + EGR
	Air injection	Pump or pulse	N/A
		Driven by	---
		Air distribution (head, manifold, etc.)	---
		Point of entry	---
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Port pressure controlled
		Exhaust source	Manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Manifold
	Catalytic Converter	Type	Single bed
		Number of	2
		Location(s)	1st - Exhaust manifold, 2nd - Under floor
		Volume [L (in ³)]	1st - 0.30 (18.31), 2nd - 0.95 (57.98)
		Substrate type	Monolith
	Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)	
Energy source (manifold vacuum, carburetor, other)		Manifold vacuum	
Discharges (to intake manifold, other)		Intake manifold	
Air inlet (breather cap, other)		Air intake hose	
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)]		One, Straight thru
Resonator no. & type		One, Straight thru
Exhaust pipe	Branch o.d., wall thickness	---
	Main o.d., wall thickness	54.0 - 1.6 mm & 42.7 - 1.2 mm
	Material & Mass [kg (weight lbs)]	Inner: Stainless steel, Outer: Aluminum coated steel
Intermediate pipe	o.d. & wall thickness	45.0 - 1.6 mm & 41.3 - 1.2 mm
	Material & Mass [kg (weight lbs)]	Inner: Stainless steel, Outer: Aluminum coated steel
Tail pipe	o.d. & wall thickness	35.0 - 1.2 mm (dual)
	Material & Mass [kg (weight lbs)]	Aluminum coated steel

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR RPO LM9	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO	1.0 LTR L3 (61 CID) EFI TURBO
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Transmissions/Transaxle (Std., Opt., N.A.)

Manual 3-speed (manufacturer/country)	Not available
Manual 4-speed (manufacturer/country)	"
Manual 5-speed (manufacturer/country)	Suzuki Motor Co., Ltd./Japan
Automatic (manufacturer/country)	Aisin Seiki/Japan Not available
Automatic overdrive (manufacturer/country)	Not available

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	2.92
Synchronous meshing (specify gears)	All forward gears	
Shift lever location	Floor mounted	
Trans. case mat'l. & mass kg (lbs)*	Aluminum die-cast, 8.1 (17.9)	
Lubricant	Capacity [L (pt.)]	2.3 (4.9)
	Type recommended	Hypoid gear oil

Clutch (Manual Transmission)

Clutch manufacturer	Aisin Seiki	Daikin Manufacturing	
Clutch type (dry, wet; single, multiple disc)	Dry, Single plate		
Linkage (hydraulic, cable, rod, lever, other)	Cable		
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	98.0 (22.1) 107.8 (24.3)	
	Released	63.7 (14.3) 73.5 (16.5)	
Assist (spring, power/percent, nominal)	No		
Type pressure plate springs	Diaphragm		
Total spring load (nominal, new) N (lbs)	2,550 (573)	2,697 (606)	
Clutch facing	Facing mfr. & material coding	Aisin Chemical, AC601 Aisin Sekimen, NC80	
	Facing material & construction	Semi-mold	
	Rivets per facing	12	16
	Outside x inside dia. (nominal)	160 x 110 mm	190 x 132 mm
	Total eff. area (cm ² (in. ²))	106 (16)	147 (23)
	Thickness (pressure plate side/ fly wheel side)	3.2 mm	3.5 mm
	Rivet depth (pressure plate side/ fly wheel side)	Min. 1.2 mm	Min. 1.4 mm
	Engagement cushion method	Separate cushion type	
Release bearing type & method lub.	Automatic center adjusting type with grease lubrication		
Torsional damping method, springs, hysteresis	Spring type, Facing: Non asbestos, Friction washer: Asbestos		

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

1988 Format Change

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR RPO LM9	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO	1.0 LTR L3 (61 CID) EFI TURBO
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Automatic Transmission/Transaxle

Trade name		3-speed Automatic	
Type and special features (describe)		Torque converter with planetary gears	
Selector	Location	Floor mounted on console	
	Ltr./No. designation	P-R-N-D-2-L	
Gear ratios	1st	2.81 (Equivalent)	
	2nd	1.55 (Equivalent)	
	3rd	1.00 (Equivalent)	
	4th	Not applicable	
	Reverse	2.30 (Equivalent)	
Max. upshift speed - drive range [km/h (mph)]		1 → 2 52 (32.3), 2 → 3 97 (60.3)	
Max. kickdown speed - drive range [km/h (mph)]		2 → 1 40 (24.9), 3 → 2 88 (54.8)	
Min. overdrive speed [km/h (mph)]		Not applicable	
Torque converter	Number of elements	3	
	Max. ratio at stall	2.0 : 1	Not available
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	Ø 210 mm	
Lubricant	Capacity (refill L (pt.))	4.0 (8.5)	
	Type Recommended	DEXRON II	
Oil cooler (std., opt., NA, internal, external, air, liquid)		Std. integral with radiator	
Transmission case material & mass kg (lbs)*		Aluminum die-cast	

Axle or Front Wheel Drive Unit

Type (front, rear)		Front		
Description		Front differential with helical gears and ball bearings		
Limited slip differential (type)		None		
Drive pinion offset		Not applicable		
Drive pinion (type)		Helical gear		
No. of differential pinions		2	4	
Pinion / differential (shim, other)		Shim		
Pinion / differential (shim, other)		Not applicable		
Driving wheel bearing (type)		Ball bearing		
Lubricant	Capacity [L (pt.)]		Not applicable, part of automatic transmission assembly	
	Type recommended		Automatic transmission fluid	
	SAE viscosity number	Summer	"	
		Winter	"	
		Extreme cold	"	

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

Axle ratio (or overall top gear ratio)		Reduction gear - 0.98, Final gear - 3.95	
No. of teeth	Pinion	51,	20
	Ring gear or gear	50,	79
Ring gear o.d.		186.98 mm	
Transaxle	Transfer gear ratio	—	
	Final drive ratio	—	

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

⊙ 1988 Format Change

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR RPO LM9	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO	1.0 LTR L3 (61 CID) EFI TURBO
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Axle Shafts - Front Wheel Drive

Manufacturer and number used		NTN, Two	
Type (straight, solid bar, tubular, etc.)	Left	Solid bar	
	Right	Solid bar	
Outer diam. x length* x wall thickness	Manual transmission	Left	23 x 445 mm
		Right	23 x 534.5 mm
	Automatic transmission	Left	19.4 x 399.7 mm
		Right	19.4 x 578.6 mm
	Optional transmission	Left	None
		Right	"
Slip yoke	Type	"	
	Number of teeth	"	
	Spline o.d.	"	
Universal joints	Make and mtg. no.	Inner	NTN Toyo Bearing
		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)		Prepack	
Drive taken through (torque tube, arms or springs)		Lower - control arm and stabilizer bar, 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.

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Body Type And/Or
 Engine Displacement

1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR RPO LM9	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO
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Suspension - General

Car leveling	Std./opt./n.a.	Not available
	Type (air, hyd., etc.)	Not applicable
	Manual/auto. controlled	"
Provision for brake dip control		"
Provision for accel. squat control		"
Provisions for car jacking		Front & rear support. locations underneath of body side sill
Shock absorber (front & rear)	Type	Front - McPherson, Rear - Direct, Double acting hydraulic
	Make	Front - Showa or Kayaba, Rear - Kayaba or Tokico
	Piston diameter	Front - 25 mm, Rear - 20 mm
	Rod diameter	Front - 18 mm, Rear - 10 mm

Suspension - Front

Type and description		McPherson strut with coil springs
Travel	Full jounce	100 mm
	Full rebound	50 mm
Spring	Type (coil, leaf, other) & material	Coil, Steel
	Insulators (type & material)	Rubber
	Size (coil design height & i.d., bar length x dia.)	M/T - 334.5 x 89.8 x 2,445 x 10.2 mm A/T - 343.5 x 89.8 x 2,520 x 10.2 mm
	Spring rate [N/mm (lb./in.)]	16.3 (93.1)
	Rate at wheel [N/mm (lb./in.)]	14.7 (83.9)
Stabilizer	Type (link, linkless, frameless)	Linkless
	Material & bar diameter	Steel, 18 mm

Suspension - Rear

Type and description		Torsion beam	
Travel	Full jounce	120 mm	
	Full rebound	50 mm	
Spring	Type (coil, leaf, other) & material	Coil, Steel	
	Size (length x width, coil design height & i.d., bar length & dia.)	4 door 318.5 x 80.4 x 2,490 x 9.7 2 door 312.5 x 80.4 x 2,410 x 9.6	
	Spring rate [N/mm (lb./in.)]	16.3 (93.1)	
	Rate at wheel [N/mm (lb./in.)]	15.2 (86.6)	
	Insulators (type & material)		Rubber - top only
	If leaf	No. of leaves	Not applicable
		Shackle (comp. or tens.)	"
Stabilizer	Type (link, linkless, frameless)	Integral function performed by axle beam	
	Material & bar diameter	Steel tubing, 28.6 mm	
Track bar (type)		Transverse beam design	

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Body Type And/Or
 Engine Displacement

1.0 LTR L3 (61 CID)
 EFI
 TURBO

Suspension - General

Car leveling	Std./opt./n.a.	Not available
	Type (air, hyd., etc.)	Not applicable
	Manual/auto. controlled	"
Provision for brake dip control		"
Provision for accel. squat control		"
Provisions for car jacking		Front & rear support locations underneath of body side sill
Shock absorber (front & rear)	Type	Front - McPherson, Rear - Direct, Double acting hydraulic
	Make	Front - Showa or Kayaba, Rear - Kayaba or Tokico
	Piston diameter	Front - 25 mm, Rear - 20 mm
	Rod diameter	Front - 18 mm, Rear - 10 mm

Suspension - Front

Type and description		McPherson strut with coil springs
Travel	Full jounce	100 mm
	Full rebound	50 mm
Spring	Type (coil, leaf, other) & material	Coil, Steel
	Insulators (type & material)	Rubber
	Size (coil design height & l.d., bar length x dia.)	328.2 x 89.6 x 2,410 x 10.4 mm
	Spring rate [N/mm (lb./in.)]	17.9 (102.2)
	Rate at wheel [N/mm (lb./in.)]	16.2 (92.5)
Stabilizer	Type (link, linkless, frameless)	Linkless
	Material & bar diameter	Steel, 22 mm

Suspension - Rear

Type and description		Torsion beam	
Travel	Full jounce	120 mm	
	Full rebound	50 mm	
Spring	Type (coil, leaf, other) & material	Coil, Steel	
	Size (length x width, coil design height & l.d., bar length & dia.)	302.5 x 80.4 x 2,390 x 10.0	
	Spring rate [N/mm (lb./in.)]	17.7 (101.1)	
	Rate at wheel [N/mm (lb./in.)]	16.5 (94.1)	
	Insulators (type & material)	Rubber - top only	
	If leaf	No. of leaves	Not applicable
		Shackle (comp. or tens.)	"
Stabilizer	Type (link, linkless, frameless)	Integral function performed by axle beam	
	Material & bar diameter	Steel tubing, 28.6 mm	
Track bar (type)		Transverse beam design	

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (*) _____

METRIC (U.S. Customary)

Body Type And/Or
 Engine Displacement

1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR RPO LM9	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO	1.0 LTR L3 (61 CID) EFI TURBO
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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			
Self-adjusting (std., opt., n.a.)		Standard			
Special valving	Type (proportion, delay, metering, other)	Proportion			
Power brake (std., opt., n.a.)		Standard			
Booster type (remote, integral, vac., hyd., etc.)		Vacuum			
Vacuum source (inline, pump, etc.)		Inline (intake manifold)			
Vacuum reservoir (volume in. ³)		None			
Vacuum pump-type (elec, gear driven, belt driven, if other so state)		None			
Anti-lock device type (std., opt., n.a.) (F/R)		Not available			
Effective area [cm ² (in. ²)]*		136/201 (21/31)			
Gross lining area [cm ² (in. ²)]**(F/R)		140/207 (22/32)			
Swept area [cm ² (in. ²)]**(F/R)		861/340 (133/53)			
Rotor	Outerworking diameter	F/R	213/—		
	Inner working diameter	F/R	134/—		
	Thickness	F/R	10		
	Material & type (vented/solid)	F/R	Cast iron, Solid		
Drum	Diameter & width	F/R	—/180 x 30 mm		
	Type and material	F/R	—/Cast iron		
Wheel cylinder bore		F/R	51.1/17.46 mm		
Master cylinder	Bore/stroke	F/R	20.63/28.5 mm		
Pedal arc ratio		4.8 : 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 (rivets/seg.)		Bonded	
		Rivet size		Not applicable	
		Manufacturer		Akebono Brake Industry	
		Lining code*****		AK V3512EE	
		Material		Resin mold including metal	
		****	Primary or out-board	103 x 38 x 10 mm	
		Size	Secondary or in-board	104 x 38 x 10 mm	
	Shoe thickness (no lining)		5 mm		
	Rear wheel	Bonded or riveted (rivets/seg.)		Bonded	
		Manufacturer		Nisshin Spinning	
		Lining Code*****		NBK D3216FF	
		Material		Resin mold	
		****	Primary or out-board	173 x 30 x 4 mm	
		Size	Secondary or in-board	173 x 30 x 4 mm	
Shoe thickness (no lining)		1.8 mm			

*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 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 or formulation designation and coefficient of friction classification.

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Body Type And/OR
 Engine Displacement

1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR RPO 1M9	1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO	1.0 LTR L3 (61 CID) EFI TURBO
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Tires And Wheels (Standard)

Tires	Size (load range, ply)		P145/80R12		P165/70R12	
	Type (bias, radial, steel, nylon, etc.)		Radial			
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	220 (32)	240 (35)	180 (26)	
		Rear (kPa (psi))	220 (32)	240 (35)	180 (26)	
	Rev./mile—at 70 km/h (45 mph)		714		709	
Wheels	Type & material		5° Drop center, steel			
	Rim (size & flange type)		12 x 4.00B		12 x 4.50B	
	Wheel offset		45 mm			
	Attachment	Type (bolt or stud)	Stud			
		Circle diameter	114.3 mm			
Number & size		4 - M10				
Spare	Tire and wheel (same size, if other describe)		Same			
	Storage position & location (describe)		Flat under rear load floor			

Tires And Wheels (Optional)

Tire size (load range, ply)	} Not available
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 seats	
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 Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Body Type And/Or
 Engine Displacement

2 DOOR HATCHBACK SEDAN 1MR08/1MS08/7MR08	4 DOOR HATCHBACK SEDAN 1MR68/7MR68	2 DOOR HATCHBACK SEDAN TURBO
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Steering

Manual (std., opt., n.a.)		Standard		
Power (std., opt., n.a.)		Not available		
Adjustable steering wheel/column (tilt, telescope, other)	Type	Not applicable		
	Manufacturer	"		
	(Std., opt., n.a.)	Not available		
Wheel diameter** (W9) SAE J1100	Manual	375 mm	380 mm	
	Power	Not available		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.0 (32.8) 10.4 (34.1)	
		Curb to curb (l. & r.)	9.2 (30.2) 9.6 (31.5) 9.5 (31.2)	
	Inside rear	Wall to wall (l. & r.)	Not applicable	
		Curb to curb (l. & r.)	"	
Scrub Radius*		- 2 mm.		
Manual	Gear	Type	Rack and Pinion	
		Manufacturer	Suzuki Motor	
		Ratios	Not applicable	
	Overall	18 : 1		
No. wheel turns (stop to stop)		3.5	3.3	
Power	Type (coaxial, linkage, etc.)		} Not applicable	
	Manufacturer			
	Gear	Type		
		Ratios		Gear
		Overall		
Pump (drive)				
No. wheel turns (stop to stop)				
Linkage	Type		End take-off tie rods	
	Location (front or rear of wheels, other)		Rear	
	Tie rods (one or two)		Two	
Steering axis	Inclination at camber (deg.)		27	
	Bearings (type)	Upper	Rubber bush	
		Lower	Rubber bush	
		Thrust	Not applicable	
Steering spindle & joint type		Serrated shaft		
Wheel spindle/hub	Diameter	Inner bearing	Inner dia. 35 mm, Outer dia. 62 mm	
		Outer bearing	" "	
	Thread (size)		M8 x 1.25	
	Bearing (type)		Ball bearing	

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

**See Page 21.

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Body Type And/Or
 Engine Displacement

1.0 LTR L3 (61CID) 2-BBL. CARBURETOR RPO LM9	1.0 LTR L3 (61CID) 2-BBL. CARBURETOR METRO	1.0 LTR L3 (61CID), EFI TURBO
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Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	3.17
		Camber (deg.)	0.25
		Toe-in (outside track-mm (in.))	-2 ~ 2 mm
	Service reset*	Caster	Not adjustable
		Camber	"
		Toe-in	Adjustable
Periodic M.V. inspection	Caster	3.17±2°	
	Camber	0.25±1°	
	Toe-in	-2 ~ 2 mm	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	0
		Toe-in (outside track-mm (in.))	0
	Service reset*	Camber	Not adjustable
		Toe-in	"
	Periodic M.V. inspection	Camber	0±1°
		Toe-in	±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.)	Standard
EGR maintenance indicator		Not applicable
Charge indicator	Type	Tell-tale warning light
	Warning device (light, audible)	"
Temperature indicator	Type	Electric gauge with pointer
	Warning device (light, audible)	Tell-tale warning light (U.S. version only)
Oil pressure indicator	Type	Tell-tale warning light
	Warning device (light, audible)	"
Fuel indicator	Type	Electric gauge with pointer
	Warning device (light, audible)	"
Windshield wiper	Type (standard)	Electric 2-speed
	Type (optional)	Intermittent
	Blade length	425 mm
	Swept area (cm ² (in. ²))	4,896 (759)
Windshield washer	Type (standard)	Electric, push-button on instrument panel
	Type (optional)	Not available
	Fluid level indicator (light, audible)	"
Rear window wiper, wiper/washer (std., opt., n.a.)		Optional
Horn	Type	Electric resonator
	Number used	1
Other	Service & parking brake failure warning light, seatbelt warning light and buzzer, headlight high beam indicating light, check engine indicating light, turn signal indicating light, Turbo indicator (Turbo), shift indicator (ER)	

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID)
 2-BBL. CARBURETOR
 RPO LM9

Electrical - Supply System

Battery	Manufacturer	Furukawa Battery Co., Ltd.
	Model, std., (opt.)	55B24R(S)-MF
	Voltage	12 volt
	Amps at 0°F cold crank	400
	Minutes-reserve capacity	70
	Amp/hrs. - 20 hr. rate	45 AH
	Location	L.H. side of engine compartment
Alternator	Manufacturer	Nippon Denso
	Rating (idle/max. rpm)	MT - 45 A, AT - 50 A (2,500 rpm)
	Ratio (alt. crank/rev.)	2.0 : 1
	Output at idle (rpm, park)	10 A (750 rpm)
Regulator	Optional (type & rating)	None
Regulator	Type	Integral with alternator

Electrical - Starting System

Start, motor	Current drain at 0°F	200 A Max.
Motor drive	Engagement type	Positive shift solenoid
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Not available	
	Other (specify)	High energy ignition (integral with distributor)	
Coil	Make	Nippon Denso	
	Model	029700-5900	
	Current	Engine stopped - A	0
		Engine idling - A	1.5 Max.
Spark plug	Make	NGK, ND or AC	
	Model	BPR6ES-11, W16EXR-U11 or R43CXLS	
	Thread (mm)	M14 x 1.25	
	Tightening torque (N-m (lb, ft))	20 - 30	
	Gap	1.1, 1.1 and 1.05	
Distributor	Number per cylinder	1	
	Make	Nippon Denso	
	Model	MT - 100291-0251, AT- 100291-0661, MT - 100291-1860 (Canadian version)	

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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Ø 1988 Format Change

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.0 LTR L3 (61 CID) 2-BBL. CARBURETOR METRO	1.0 LTR L3 (61 CID) EFI TURBO
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Electrical - Supply System

Battery	Manufacturer	Furukawa Battery Co., Ltd.
	Model, std., (opt.)	55B24R(S)-MF
	Voltage	12 volt
	Amps at 0°F cold crank	400
	Minutes-reserve capacity	70
	Amp/hrs. - 20 hr. rate	45 AH
	Location	L.H. side of engine compartment
Alternator	Manufacturer	Nippon Denso
	Rating (idle/max. rpm)	50 A (2,500 rpm)
	Ratio (alt. crank/rev.)	2.0 : 1
	Output at idle (rpm, park)	10 A (750 rpm)
	Optional (type & rating)	None
Regulator	Type	Integral with alternator

Electrical - Starting System

Start, motor	Current drain at 0°F	200 A Max.
	Engagement type	Positive shift solenoid
Motor drive	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Not available	Standard	
	Other (specify)	High energy ignition (integral with distributor)		
Coil	Make	Nippon Denso	Diamond Electric	
	Model	029700-5900	E064	
	Current	Engine stopped - A	0	
		Engine idling - A	1.5 Max.	
Spark plug	Make	NGK, ND or AC	NGK or ND	
	Model	BPR6ES-11, W16EXR-U11 or R43CXLS	BPR6ES-11 or W16EXR-U11	
	Thread (mm)	M14 x 1.25		
	Tightening torque (N-m (lb. ft))	20 - 30		
	Gap	1.1, 1.1 and 1.05	1.1 and 1.05	
	Number per cylinder	1		
Distributor	Make	Nippon Denso	Mitsubishi Electric	
	Model	100291-2050	T004T-73072	

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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Ø 1988 Format Change

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Body Type	2-DOOR HATCHBACK SEDAN 1MR08/1MS08/7MR08	4 DOOR HATCHBACK SEDAN 1MR68/7MR68
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Body

Structure	Unitized frame
Bumper system front-rear	Bumper stays have energy absorption units and bumper member is covered by polypropylene molding skin.
Anti-corrosion treatment	<ol style="list-style-type: none"> 1. Use of surface treatment steel plate in major body components 2. Application of vinyl chloride coating to floor bottom surface 3. Application of tipping coating to side sill outer surface 4. Application of corrosion protection oil to side sill inner surface

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Enamel	
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal & external
Trunk lid	Type (counterbalance, other)	Not applicable
	Internal release control (elec., mech., n.a.)	"
Hatch-back lid	Type (counterbalance, other)	2-Telescopic gas strut rods
	Internal release control (elec., mech., n.a.)	Not applicable
Tailgate	Type (drop, lift, door)	Not applicable
	Internal release control (elec., mech., n.a.)	"
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	Pivot None
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Semi-bucket, polyurethane & spring
	Rear	Bench, polyurethane
	3rd seat	None
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Semi-bucket, polyurethane & spring
	Rear	Bench, polyurethane & steel panel
	3rd seat	None

Ø 1988 Format Change

MVMA Specifications Form
METRIC (U.S. Customary)

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

Body Type

2 DOOR HATCHBACK SEDAN 1MR08/1MS08/7MR08	4 DOOR HATCHBACK SEDAN 1MR68/7MR68
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Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	3 point shoulder and lap belt for driver and front passenger, Lap belt for all other positions
	Location	Front - (2), Rear - (2)
Passive seat belts	Standard/optional	Not available
	Power/manual	Not applicable
	2 or 3 point	"
	Knee bar/lap belt	"

Frame

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

Glass	SAE Ref. No.		
Windshield glass exposed surface area [cm ² (in. ²)]	S1	6,885 (1,067)	
Side glass exposed surface area [cm ² (in. ²)] - total 2-sides	S2	11,490 (1,781)	11,650 (1,806)
Backlight glass exposed surface area [cm ² (in. ²)]	S3	4,830 (749)	
Total glass exposed surface area [cm ² (in. ²)]	S4	23,205 (3,597)	23,365 (3,622)
Windshield glass (type)		Curved-laminated plate	
Side glass (type)		Curved-tempered plate	
Backlight glass (type)		"	

MVMA Specifications Form
METRIC (U.S. Customary)

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

Body Type	2 DOOR HATCHBACK SEDAN 1MR08/1MS08/7MR08	4 DOOR HATCHBACK SEDAN 1MR68/7MR68
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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 available	
Console (floor, overhead)	Optional, floor	
Defroster, elec. backlight	Optional	
Electronic	Diagnostic monitor (integrated, individual)	Not available
	Instrument cluster (list instruments)	"
	Keyless entry	"
	Tripminder (avg. spd., fuel)	"
	Voice alert (list items)	"
	Other	"
Fuel door lock (remote, key, electric)	Not available	
Lamps	Auto head on / off delay, dimming	"
	Cornering	"
	Courtesy (map, reading)	"
	Door lock, ignition	"
	Engine compartment	"
	Fog	"
	Glove compartment	"
	Trunk	"
Mirrors	Day/night (auto. man.)	Standard, manual
	L.H. (remote, power, heated)	Standard, remote
	R. H. (convex, remote, power, heated)	Optional, convex
	Visor vanity (RH / LH, illuminated)	Not available
Parking brake-auto release (warning light)	Manual release, warning light	
Power equipment	Door locks / deck lid - specify	Not available
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	Not available
	Side windows	"
	Vent. windows	"
	Rear window	"
Radio systems	Antenna (location, whip, w/shield, power)	Whip, front pillar mounted
	AM, FM, stereo, tape, CB	AM/FM, AM/FM Stereo with/without cassette tape
	Speaker (number, location) Premium sound	Two front std., two rear std. w/stereo
Roof open air (fixed, flip-up, sliding, "T")	Not available	
Speed control device	"	
Speed warning device (light, buzzer, etc.)	"	
Tachometer (rpm)	Optional	
Telephone system - mobile	Not available	
Theft protection-type	Lock mounted on steering column; locks steering wheel and ignition	

MVMA Specifications Form

Vehicle Line SPRINT / FIREFLY
 Model Year 1988 issued _____ Revised (e) _____

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	SAE Ref. No.	2 DOOR HATCHBACK SEDAN 1MR08/1MS08/7MR08	4 DOOR HATCHBACK SEDAN 1MR68/7MR68	2 DOOR HATCHBACK SEDAN TURBO
Width				
Tread (front)	W101	1,335 mm (52.6)		
Tread (rear)	W102	1,300 mm (51.2)		
Vehicle width	W103	1,530 mm (60.2)		1,545 mm (60.8)
Body width at Sg RP (front)	W117	1,530 mm (60.2)		
Vehicle width (front doors open)	W120	3,510 mm (138.2)	3,147 mm (123.9)	3,510 mm (138.2)
Vehicle width (rear doors open)	W121	—	2,981 mm (117.4)	—
Front fender overall width	W106	1,530 mm (60.2)		
Rear fender overall width	W107	1,526 mm (60.1)		
Tumble-home (deg.)	W122	19°55'		

Length

Wheelbase	L101	2,245 mm (88.4)	2,345 mm (92.3)	2,245 mm (88.4)
Vehicle length	L103	3,670 mm (144.5)	3,770 mm (148.4)	3,670 mm (144.5)
Overhang (front)	L104	735 mm (28.9)		
Overhang (rear)	L105	690 mm (27.2)		
Upper structure length	L123	2,403 mm (94.6)	2,503 mm (98.5)	2,403 mm (94.6)
Rear wheel C/L "X" coordinate	L127	2,800 mm (110.2)	2,900 mm (114.2)	2,800 mm (110.2)
Cowl point "X" coordinate	L125	904 mm (35.6)		
Front end length at centerline	L126	1,085 mm (42.7)		
Rear end length at centerline	L129	183 mm (7.2)		

Height*

Passenger distribution (front/rear)	PD1,2,3	2/2		
Trunk/cargo load		—		
Vehicle height	H101	1,350 mm (53.1)		
Cowl point to ground	H114	920 mm (36.2)		
Deck point to ground	H138	—		
Rocker panel-front to ground	H112	235 mm (9.2)		
Bottom of door closed-front to grd.	H133	325 mm (12.8)		
Rocker panel-rear to ground	H111	255 mm (10.0)		
Bottom of door closed-rear to grd.	H135	—	328 mm (12.9)	—
Windshield slope angle	H122	56°30'		
Backlight slope angle	H121	43°50'		

Ground Clearance*

Front bumper to ground	H102	220 mm (8.7)		190 mm (7.5)
Rear bumper to ground	H104	235 mm (9.2)		
Bumper to ground (front at curb mass (wt.))	H103	260 mm (10.2)		
Bumper to ground (rear at curb mass (wt.))	H105	305 mm (12.0)		
Angle of approach (degrees)	H106	20.5		18.5
Angle of departure (degrees)	H107	26.2		
Ramp breakover angle (degrees)	H147	20.0	19.0	20.0
Axle differential to ground (front / rear)	H153	165 mm (6.5)		
Min. running ground clearance	H156	175 mm (6.9)		
Location of min. run. grd. clear.		Pivot of front lower suspension arm		

* All vehicle height and ground clearances are measured at the Manufacturer's Design Load Weight. Manufacturer's Design Load Weight is defined with indicated passenger distribution and trunk/cargo load, unless otherwise specified. All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

Body Type	SAE Ref. No.	2 DOOR HATCHBACK SEDAN 1MR08/1MS08/7MR08	4 DOOR HATCHBACK SEDAN 1MR68/7MR68
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Front Compartment

Sg RP front, "X" coordinate	L31	1,840	(72.4)
Effective head room	H61	940	(37.0)
Max. eff. leg room (accelerator)	L34	1,068	(42.0)
SgRP to heel point	H30	238	(9.4)
SgRP to heel point	L53	Right - 832 (32.7) Left - 867	(34.1)
Back angle	L40	25°	
Hip angle	L42	R: 93°, L: 96°	
Knee angle	L44	R: 118°, L: 124°	
Foot angle	L46	R: 140°, L: 87°	
Design H-point front travel	L17	Right - 160 (6.3) Left - 180	(7.1)
Normal driving & riding seat track trvl.	L23	Right - 160 (6.3) Left - 180	(7.1)
Shoulder room	W3	1,280	(50.4)
Hip room	W5	1,275	(50.2)
Upper body opening to ground	H50	1,240	(48.8)
Steering wheel maximum diameter*	W9	375 (Turbo - 380)	(14.8/15.0)
Steering wheel angle	H18	27°	
Accel. heel pt. to steer. whl. cntr	L11	457	(18.0)
Accel. heel pt. to steer. whl. cntr	H17	620	(24.4)
Steering wheel to C/L of thigh	H13	85	(3.3)
Steering wheel torso clearance	L7	385	(15.2)
Headlining to roof panel (front)	H37	15	(0.6)
Undepressed floor covering thickness	H67	30	(1.2)

Rear Compartment

Sg RP Point couple distance	L50	670	(26.4)	745	(29.3)
Effective head room	H63	914	(36.0)	923	(36.3)
Min. effective leg room	L51	R: 758, L: 738	29.8/29.1	R: 827, L: 806	(32.6/31.7)
Sg RP (second to heel)	H31	265	(10.4)		
Knee clearance	L48	R: -55, L: -70	(-2.2/-2.8)	R: 13, L: -4	(0.5/-0.2)
Compartment room	L3	650	(25.6)	725	(28.5)
Shoulder room	W4	1,263	(49.7)	1,277	(50.3)
Hip room	W6	1,034	(40.7)	1,158	(45.6)
Upper body opening to ground	H51	NA		1,240	(48.8)
Back angle	L41	25°			
Hip angle	L43	R: 76°, L: 75°		R: 79.5°, L: 78.5°	
Knee angle	L45	R: 67°, L: 64°		R: 77.5°, L: 74.5°	
Foot angle	L47	R: 112°, L: 110°		R: 119°, L: 117°	
Headlining to roof panel (second)	H38	15	(0.6)		
Depressed floor covering thickness	H73	20	(0.8)		

Luggage Compartment

Usable luggage capacity [L. (cu. ft.)]	V1	—
Liftover height	H195	595 (23.4)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)	Mini-compact	Sub-compact
Interior volume index (cu. ft.)	74.4	79.4
Trunk/cargo index (cu. ft.)	8.6	8.8

* See page 14.

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)
Vehicle Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	2 DOOR HATCHBACK SEDAN 1MR08/1MS08/7MR08	4 DOOR HATCHBACK SEDAN 1MR68/7MR68
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Station Wagon - Third Seat

Sg RP couple distance	L85	} Not applicable
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Sg RP to heel point	H87	
Knee clearance	L87	} Not applicable
Seat facing direction	SD1	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

Station Wagon - Cargo Space

Cargo length (open front)	L200	} Not applicable
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Min. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [m ³ (ft. ³)]	V2	
Hidden cargo volume [m ³ (ft. ³)]	V4	
Cargo volume index-rear of 2-seat	V10	

Hatchback - Cargo Space

Cargo length at front seatback height	L208	1,026 mm (40.4)	1,126 mm (44.3)
Cargo length at floor (front)	L209	1,170 mm (46.1)	1,270 mm (50.0)
Cargo length at second seatback height	L210	332 mm (13.1)	357 mm (14.1)
Cargo length at floor (second)	L211	552 mm (21.7)	
Front seatback to load floor height	H197	391 mm (15.4)	
Second seatback to load floor height	H198	435 mm (17.1)	
Cargo volume index [m ³ (ft. ³)]	V3	0.522 (18.4)	0.571 (20.2)
Hidden cargo volume [m ³ (ft. ³)]	V4	—	
Cargo volume index-rear of 2-seat	V11	0.243 (8.6)	0.250 (8.8)

Aerodynamics*

Wheel lip to ground, front	Not available
Wheel lip to ground, rear	"
Frontal area [m ² (ft. ²)]	"
Drag coefficient (Cd)	"

* EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications Form
METRIC (U.S. Customary)

Vehicle Line SPRINT / FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

Body Type	2 DOOR HATCHBACK SEDAN 1MR08 / 1MS08 / 7MR08	4 DOOR HATCHBACK SEDAN 1MR68 / 7MR68
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Vehicle Fiducial Marks

Fiducial Mark Number	Define Coordinate Location	
Front	Front suspension strut upper center	
Rear	Rear bumper stay bracket hole center	
Front	W21*	495 (19.5)
	L54*	590 (23.2)
	H81*	550 (21.6)
	H161*	780 (30.7)
	H163*	760 (29.9)
Rear	W22*	510 (20.1)
	L55*	3,180 (125.2)
	H82*	215 (8.5)
	H162*	480 (18.9)
	H164*	460 (18.1)

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

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line SPRINT / FIREFLY
 Model Year 1988 Issued _____ Revised (*) _____

Body Type

2 DOOR HATCHBACK SEDAN 1MR08/1MS08/7MR08	4 DOOR HATCHBACK SEDAN 1MR68/7MR68
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Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	635 mm (25.0)
		Lowest	—
	Tailamp (SAE - H128)	Highest**	730 mm (28.7)
		Lowest	—
	Sidemarker	Front	600 mm (23.6)
		Rear	690 mm (27.2)
Distance from C/L of car to center of bulb	Headlamp	Inside	—
		Outside**	1,050 mm (41.3)
	Tailamp	Inside	—
		Outside**	1,025 mm (40.3)
	Directional	Front	1,070 mm (42.1)
		Rear	1,140 mm (44.9)
Halogen headlamp (std., opt., n.s.)	Lo beam	Standard	
	Hi beam	Standard	
	Replaceable bulb	Standard	
	Shape	Flush	
Headlamp other than above	Lo beam	Not applicable	
	Hi beam	"	
	Replaceable	"	
	Type	"	

* Measured at curb mass (weight).
 ** If single lamps are used enter here.

MVMA Specifications Form

Vehicle Line SPRINT/FIREFLY
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METRIC (U.S. Customary)

Model	Vehicle Mass (weight)							SHIPPING MASS, kg (weight, lb.)**
	CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION				
	Front	Rear	Total	Pass In Front		Pass In Rear		
				Front	Rear	Front	Rear	
SPRINT/FIREFLY								
2 Door Hatchback	430	280	710					688
Sedan 1MR08/7MR08	(948)	(617)	(1565)					(1517)
4 Door Hatchback	435	300	735					713
Sedan 1MR68/7MR68	(959)	(661)	(1620)					(1572)
SPRINT METRO								
2 Door Hatchback	430	280	710					688
Sedan 1MS08	(948)	(617)	(1565)					(1517)
TURBO SPRINT/TURBO FIREFLY								
2 Door Hatchback	445	290	735					713
Sedan 1MR08/7MR08	(981)	(639)	(1620)					(1572)
Curb Weight - The calculated weight of a vehicle with standard equipment only as designed with the additional load of oil, lubes, coolants, fuel and windshield washer liquid all filled to capacity.								
Shipping Weight - Same as base curb weight, except 5.5 liters of gasoline and 0.4 liters of windshield washer liquid.								

* Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.
 ** Shipping mass (weight) definition -

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line SPRINT/FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
Electric Rear Window Defogger	0	0.10	0.10	All models
Air Conditioning and Tinted Glass	16.33	1.17	17.50	2 Door H/B (similar weight distribution for 4 Door H/B)
Tachometer	0.22	0.08	0.30	2 Door H/B (similar weight distribution for 4 Door H/B)
Rear Window Washer & Wiper	-0.50	3.05	2.55	2 Door H/B (similar weight distribution for 4 Door H/B)
Passenger Assist Grip Right Front	0.03 0.06	0.04 0.15	0.07 0.21	2 Door H/B 4 Door H/B
Split Folding Rear Seat Back	0	1.30	1.30	All models
Intermittent Wipers	0.04	0.01	0.05	2 Door H/B (similar weight distribution for 4 Door H/B)
Custom Trim Seat	0	0	0	
Adjustable Head Rest	0.20	0.55	0.75	2 Door H/B (similar weight distribution for 4 Door H/B)
Large Arm Rest	0.20	0.25	0.45	2 Door H/B (similar weight distribution for 4 Door H/B)
Custom Door Trim	0	0	0	
Door Upper Trim	0.04 0.05	0.03 0.08	0.07 0.13	2 Door H/B 4 Door H/B
"B" & "C" Pillar Cover	0.06 0.10	0.20 0.38	0.26 0.48	2 Door H/B 4 Door H/B
Body Side Molding	0.87 0.79	0.88 0.81	1.74 1.60	2 Door H/B " (Canadian version only)
Body Side Molding	1.00 0.80	1.07 0.86	2.06 1.66	4 Door H/B " (Canadian version only)
RH Outside Rear View Mirror				CHEVROLET
Radio - AM/FM				CHEVROLET
Radio - AM/FM Stereo				CHEVROLET

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

MVMA Specifications Form

Vehicle Line SPRINT / FIREFLY
 Model Year 1988 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
Radio - AM/FM Stereo with Cassette Deck				CHEVROLET
Speakers - Radio Dual Rear				CHEVROLET
Front Floor Mats				CHEVROLET
Rear Floor Mats				CHEVROLET
Body Side Molding				CHEVROLET
Engine Block Heater				CHEVROLET
Console Box	0.60	0.44	1.04	2 Door H/B (similar weight distribution for 4 Door H/B)
Full Wheel Cap	0.94	0.94	1.88	
Front & Rear Mud Guard	0.35	0.55	0.90	
Automatic Transmission	25.00	-5.00	20.00	

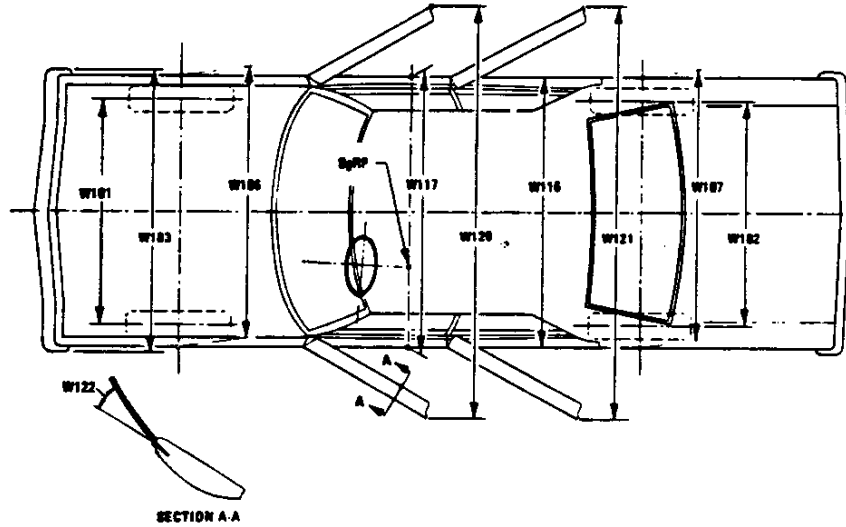
*Also see Engine - General Section for dressed engine mass (weight).

MVMA Specifications Form

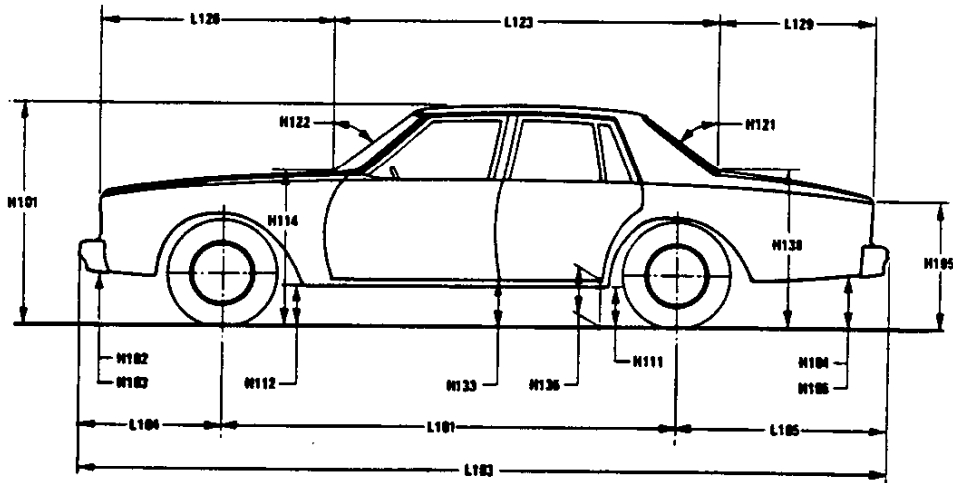
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions – Key Sheet

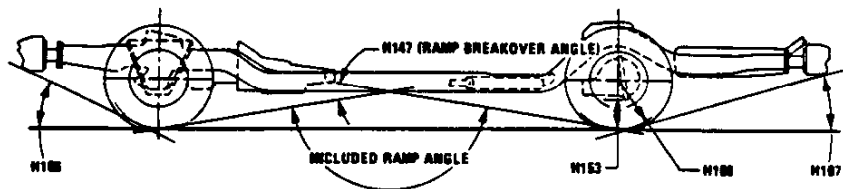
Exterior Width



Exterior Length & Height



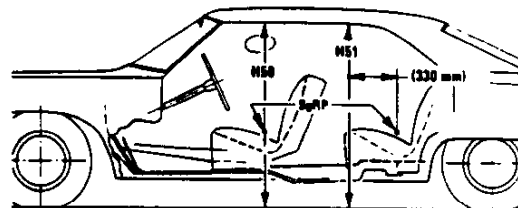
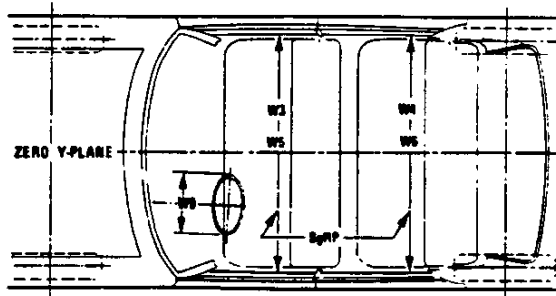
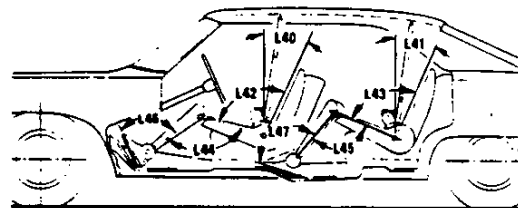
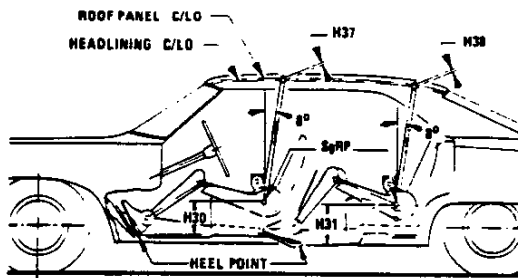
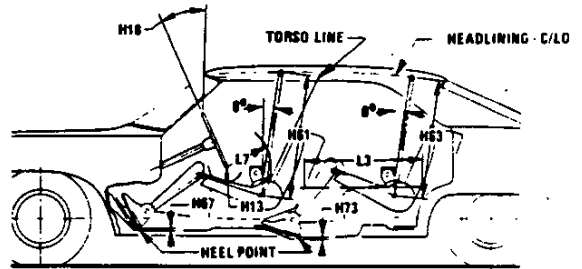
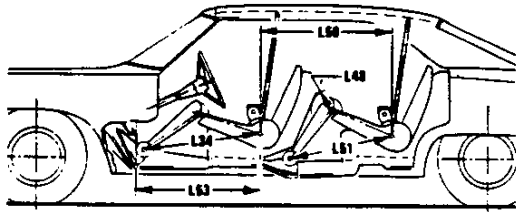
Exterior Ground Clearance



MVMA Specifications Form

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet

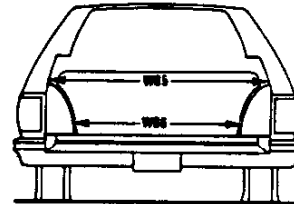
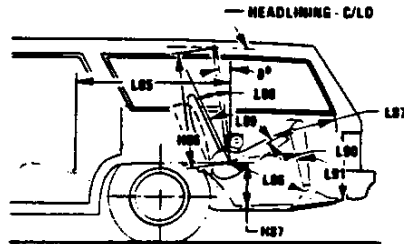


MVMA Specifications Form

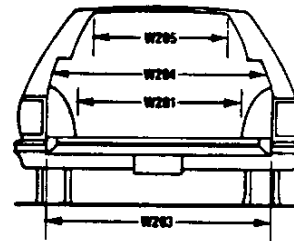
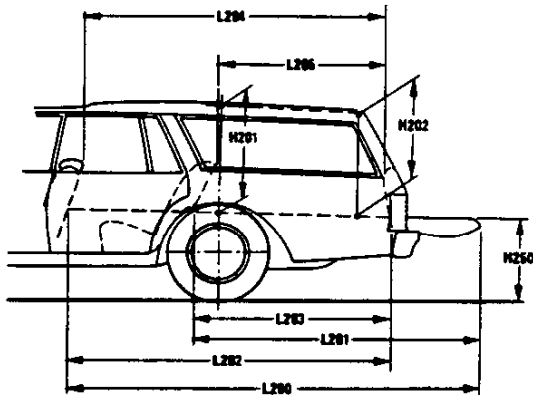
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Interior Vehicle And Body Dimensions – Key Sheet

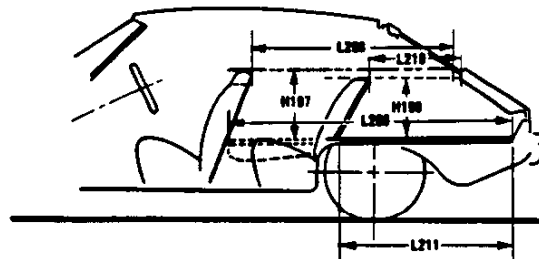
Third Seat



Cargo Space



Station Wagon



Hatchback

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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.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- W117 BODY WIDTH AT SgRP–FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH–FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH–REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE–HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

Length Dimensions

- 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 OVERHANG–FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L105 OVERHANG–REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case

of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L125 COWL POINT "X" COORDINATE.
- L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost point of front end contour.
- 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.
- L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

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.
- H127 HEADLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the lowest headlamp lens to ground.
- H128 TAILLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.
- H133 BOTTOM OF DOOR CLOSED–FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H135 BOTTOM OF DOOR CLOSED–REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- 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.

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Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

- 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 of 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.

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

- L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- 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 LEVEL. 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.
- H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
- H17 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.
- H37 HEADLINING TO ROOF PANEL-FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
- 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.
- PD1 PASSENGER DISTRIBUTION-FRONT.

Rear Compartment Dimensions

- L3 COMPARTMENT ROOM-SECOND. The dimension measured horizontally from the back of the front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

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Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

- 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 254mm (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.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- 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.
- PD2 PASSENGER DISTRIBUTION-SECOND.

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.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

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 51mm (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.
- PD3 PASSENGER DISTRIBUTION-THIRD.
- 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 wheelhouses at floor level. For any vehicle not trimmed, measure to the sheet metal.

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Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

- 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:

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

$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$
 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 electrically 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 "Y" 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 seat back 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:

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

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MVMA Specifications Form

Vehicle Line _____
Model Year _____ Issued _____ Revised (•) _____

METRIC (U.S. Customary)
SUPPLEMENTAL PAGE
