

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car
1986

Manufacturer Mitsubishi Motors Corporation	Car Line Mitsubishi Mirage (2D)	
Mailing Address 33-8, Shiba 5-chome, Minato-ku, Tokyo, 108, Japan	Issued 3-1-1985	Revised

Questions concerning these specifications should be directed to the manufacturer whose address is shown above.

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

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Motor Vehicle Manufacturers Association
of the United States, Inc.

MVMA Specifications Form

Passenger Car

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 completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Models

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Model Year 1986 Issued 3-1-1985 Revised (•) _____

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg/100 kPa atmospheric pressure.

MVMA-C-86

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METRIC (U.S. Customary)

Car Line Mitsubishi Mirage (2D)
Model Year 1986 Issued 3-1-1985 Revised (●) _____

Engine Description/Carb.
Engine Code

G15B (1.468 Liters)		G32B with Turbo (1.597 Liters)	
MT	AT	MT	AT

ENGINE – GENERAL

Type & description (inline, V, angle, fiat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	In line, Front, Transvers		
Manufacturer	Mitsubishi Motors Corporation		
No. of cylinders	4		
Bore	75.5		76.9
Stroke	82		86
Bore spacing (C/L to C/L)	82		87.5
Cylinder block material & mass kg (lbs.)	27.1 (59.7)		32.0 (70.5)
Cylinder block deck height	201		230.2
Deck clearance (minimum) (above or below block)	0		0
Cylinder head material & mass kg (lbs.)	6.9 (15.2)		7.4 (16.3)
Cylinder head volume (cm³)	34.3		38.5
Head gasket thickness (compressed)	1.15		1.35
Minimum combustion chamber total volume (cm³)	43.7		60.5
Cyl. no. system (front to rear)*	L. Bank	N.A.	
	R. Bank	N.A.	
Firing order	1-3-4-2		
Intake manifold material & mass [kg (weight, lbs.)]	Aluminum alloy, 1.9 (4.2)		Aluminum alloy, 2.6 (5.7)
Exhaust manifold material & mass [kg (weight, lbs.)]	Cast iron, 5.7 (12.6)		Cast iron, 3.7 (8.2)
Recommended fuel (leaded, unleaded, diesel)	Unleaded		
Fuel antiknock index (R + M) 2	RON 91 (minimum)		
Total dressed engine mass (wt) dry**	105	99.6	119.0 111.2

Engine – Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy	
	220 (8)	270 (10)

Engine – Camshaft

Location	Center of IN. and EX. valve or cylinder-head		
Material & mass kg (weight, lbs.)	Cast iron		
	2.45 (5.40)	2.41 (5.31)	
Drive type	Chain / belt	Belt	
	Width / pitch	19.1 / 9.525	

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

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

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Engine – Valve System

Hydraulic lifters (std., opt., NA)		N.A.	
Valves	Number intake / exhaust	4 / 4	
	Head O.D. intake / exhaust	34 / 30	42 / 34

Engine – Connecting Rods

Material & mass (kg., (weight, lbs.))	Drop-forged steel, 0.490(1.08)	Drop-forged steel, 0.630(1.39)
---------------------------------------	--------------------------------	--------------------------------

Engine – Crankshaft

Material & mass (kg., (weight, lbs.))		Cast iron, 10.0 (22.27)	Drop-forged steel, 12.4(27.34)
End thrust taken by bearing (no.)		3	
Number of main bearings		5	
Seal (material, one, two piece design, etc.)	Front	Synthetic rubber, One piece	
	Rear	Synthetic rubber, One piece	

Engine – Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	440 (63.8) at 2000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full flow
Capacity of c-case, less filter-refill-L (qt.)	3.0 (2.6) 3.5 (3.1)

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)		-
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	None	With-Mitsubishi Heavy Industries Ltd.
Super charger - manufacturer		None
Charge cooler		None

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Engine Description: Carb.
Engine Code

C12A		C13A	
MT	AT	MT	AT

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		With condenser tank (std.)			
Coolant fill location (rad., bottle)		Bottle			
Radiator cap relief valve pressure [kPa (psi)]		88 (12.8)			
Circulation thermostat	Type (choke, bypass)	Choke pellet			
	Starts to open at °C (°F)	88 (190.4)			
Water pump	Type (centrifugal, other)	Centrifugal			
	GPM 1000 pump rpm	-			
	Number of pumps	1			
	Drive (V-belt, other)	V ribbed belt			
	Bearing type	Ball, integral shaft permanentary sealed			
	Impeller material	Cold-rolled carbon steel sheet			
	Housing material	Aluminum die casting			
By-pass recirculation (type (inter., ext.))		External			
Cooling system capacity	With heater—L(qt.)	4.3 (4.5)	4.7 (5.0)	5.2 (5.5)	
	With air cond.—L(qt.)	4.3 (4.5)	4.7 (5.0)	5.2 (5.5)	
	Opt. equipment [specify—L(qt.)]	-			
Water jackets full length of cyl. (yes, no)		Yes			
Water all around cylinder (yes, no)		No		Yes	
Water jackets open at head face (yes, no)		No			
Radiator core	Std., A/C, HD	-			
	Type (cross-flow, etc.)	Down - flow			
	Construction (fin & tube mechanical, braze, etc.)	Tube and corrugated fin, braze, brass			
	Material, mass [kg (wgt. lbs.)]	2.6 (5.7)	5.2 (11.5)	5.0 (11.0)	5.8 (12.8)
	Width	418			
	Height	325		400	
	Thickness	16	32	32	
	Fins per inch	20	20	20	
Radiator end tank material		brass			
Fan	Std., elec., opt.	Elec.			
	Number of blades & type (flex, solid, material)	4			
	Diameter & projected width	300			
	Ratio (fan to crankshaft rev.)	-			
	Fan cutout type	-			
	Drive type (direct, remote)	-			
	RPM at idle (elec.)	2300			
	Motor rating (wattage) (elec.)	45	80	80	120
	Motor switch (type & location) (elec.)	Thermo type in radiator			
	Switch point (temp., pressure) (elec.)	85°C			
	Fan shroud (material)	Steel			

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G15B (1.468 Liters)

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

Induction type: carburetor, fuel injection system, etc.		Carburetor	
Carburetor	Mfgr.	Mikuni Co., Ltd. 30-32 DID TF	
	Choke (type)	Automatic	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	650 (Up to 300 mile), 700 (After 300 mile)
		Automatic	700 (Up to 300 mile), 750 (After 300 mile)
Idle A/F mix.		Preset and sealed at factory	
Fuel injection	Point of injection (no.)	N.A.	
	Constant, pulse, flow	N.A.	
	Control (electronic, mech.)	N.A.	
	System pressure [kPa (psi)]	N.A.	
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water, fixed	
Air cleaner type	Standard	Dry Non-woven cloth	
	Optional	N.A.	
Fuel pump	Type (elec. or mech.)	Mechanical	
	Location (eng., tank)	Engine	
	Pressure range [kPa (psi)]	18 to 26 (2.7 to 3.7)	

Fuel Tank

Capacity [refill L (gallons)]		45 (11.9)
Location (describe)		Underneath rear floorpan
Attachment		Strap
Material & Mass [kg (weight lbs)]		Steel 6.7 (14.8)
Filler pipe	Location & material	Left, 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.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.

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G32B with Turbo (1.597 Liters)

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	
Carburetor	Mfr.	-	
	Choke (type)	-	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	-
		Automatic	-
Idle A/F mix.		14.7	
Fuel injection	Point of injection (no.)	On throttle valve (two)	
	Constant, pulse, flow	17.0 mm ³ / 2.5 msec	
	Control (electronic, mech.)	Electronic	
	System pressure [kPa (psi)]	245 Kpa	
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water, Fixed	
Air cleaner type	Standard	Dry Non-woven cloth	
	Optional	N.A.	
Fuel pump	Type (elec. or mech.)	Electric	
	Location (eng., tank)	Tank	
	Pressure range [kPa (psi)]	190 to 340 (28 to 50)	

Fuel Tank

Capacity (refill L (gallons))		45 (11.9)
Location (describe)		Underneath rear floorpan
Attachment		Strap
Material & Mass [kg (weight lbs)]		Steel 7.2 (15.9)
Filler pipe	Location & material	Left, 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.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.

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G15B	G32B with Turbo
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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Three-way catalyst with feedback control. Exhaust gas recirculation and Air induction	
	Air Injection	Pump or pulse	Pulse	
		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)	Controlled flow	
		Exhaust source	Exhaust port No. 2	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake manifold	
	Catalytic Converter	Type	Three-way	
		Number of	2	
		Location(s)	In exhaust manifold & Under floor	
		Volume [L (in ³)]	0.7 (43) + 1.0 (61)	
		Substrate type	Monolith	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction system	
	Energy source (manifold vacuum, carburetor, other)		Intake manifold vacuum	
	Discharges (to intake manifold, other)		To intake manifold	
	Air inlet (breather cap, other)		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 (REVERSE FLOW) ALMINIZED STEEL PLATE 3.4Kg	
Resonator no. & type		NONE	
Exhaust pipe	Branch o.d., wall thickness		
	Main o.d., wall thickness		42.7 x 1.2 48.6 x 1.2
	Material & Mass [kg (weight lbs)]		ALMINIZED STEEL TUBE 1.78Kg ALMINIZED STEEL TUBE 2.03Kg
Inter-mediate pipe	o.d. & wall thickness		38.1 x 1.2 42.7 x 1.2
	Material & Mass [kg (weight lbs)]		ALMINIZED STEEL TUBE 1.46Kg ALMINIZED STEEL TUBE 1.64Kg
Tail pipe	o.d. & wall thickness		38.1 x 1.2 42.7 x 1.2
	Material & Mass [kg (weight lbs)]		ALMINIZED STEEL TUBE 0.24Kg ALMINIZED STEEL TUBE 0.27Kg

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Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	N.A.
Manual 4-speed (std., opt., n.a.) (mfr.)	Std. (MMC) N.A.
Manual 5-speed (std., opt., n.a.) (mfr.)	Std. (MMC) Std. (MMC)
Manual overdrive (std., opt., n.a.) (mfr.)	N.A.
Automatic (std., opt., n.a.) (mfr.)	Std. (MMC) Std. (MMC)
Automatic overdrive (std., opt., n.a.) (mfr.)	N.A.

Manual Transmission/Transaxle

Number of forward speeds	4	5
Transmission ratios	In first	3.619 4.226
	In second	1.888 2.365
	In third	1.121 1.467
	In fourth	0.856 1.105
	In fifth	- 0.855
	In overdrive	-
	In reverse	3.358 4.109
Synchronous meshing (specify gears)	1, 2, 3, 4	1, 2, 3, 4, 5,
Shift lever location	Floor	
Lubricant	Capacity [L (pt.)]	2.1 (4.5) 2.3 (4.9)
	Type recommended	Multipurpose gear oil conforming to API GL-4
	SAE viscosity number Summer	SAE 75W-85W
	SAE viscosity number Winter	SAE 75W-85W
	SAE viscosity number Extreme cold	SAE 75W-85W

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)	Aisin Seiki Co., Ltd. dry single plate (cable)	Daikin Manufacturing Co., Ltd. dry single plate (cable)	Aisin Seiki Co., Ltd. dry single plate (cable)
Assist (yes, no percent)	No		
Type pressure plate springs	Diaphragm		
Total spring load [N (lb.)]	3481 (783)	3236 (727)	4168 (937)
No. of clutch driven discs	One		
Clutch facing	Material	Woven Asbestos	
	Manufacturer	Hitachi Chemical Co., Ltd.	
	Part number	None	
	Rivets plate	16	
	Rivet size	4 (mm)	
	Outside & inside dia.	200x130	184x127 200x130 (mm)
	Total eff. area [cm ² (in. ²)]	363 (56.3)	278 (43.1) 363 (56.3)
	Thickness	3.5	3.2 3.5 (mm)
	Engagement cushion method	Flat-wave spring	
Release bearing	Type & method of lubrication	Ball bearing, permanently lubricated	
Torsional damping	Method: springs, friction material	Damper rubbers-coil springs and friction washers	

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G15B (1.468 Liters)

G32B with Turbo
(1.597 Liters)

Automatic Transmission/Transaxle

Trade name		Mitsubishi Motors Corp. KM171	
Type and special features (describe)		Torque converter with automatically operated planetary gear transmission. Electronic control KM171	
Selector	Location	Lever : Console mounted	
	Ltr./No. designation	P.R.N.D.2.L / 6	
Gear ratios	R	2.176	
	D	2.846, 1.581, 1.000	2.551, 1.488, 1.000
	L ₃	-	
	L ₂	2.846, 1.581	2.551, 1.488
	L ₁	2.846	2.551
Max. upshift speed - drive range [km/h (mph)]		1-2 55 (34), 2-3 102 (64)	1-2 60 (38), 2-3 107 (67)
Max. kickdown speed - drive range [km/h (mph)]		2-1 47 (29), 3-2 95 (60)	2-1 47 (29), 3-2 100 (63)
Min. overdrive speed [km/h (mph)]		-	
Torque converter	Number of elements	Three	
	Max. ratio at stall	2.10 : 1	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	240	
Lubricant	Capacity [refill L (pt.)]	5.8 (12.3)	
	Type Recommended	DEXRON II OR DEXRON automatic trans. fluid	
Oil cooler (std., opt., NA, internal, external, air, liquid)		Std. external liquid	

Axle or Front Wheel Drive Unit

Type (front, rear)		Front	
Description		Separable	
Limited slip differential (type)			
Drive pinion offset			
Drive pinion (type)			
No. of differential pinions		2	
Pinion / differential adjustment (shim, other)		Shim	
Pinion / differential bearing adjustment (shim, other)		Shim	
Driving wheel bearing (type)		Tapered roller	
Lubricant	Capacity [L (pt.)]	Refer to transmission spec	
	Type recommended	Refer to transmission spec	
	SAE viscosity number	Refer to transmission spec	
		Refer to transmission spec	
		Refer to transmission spec	

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

		4 M/T	5 M/T	Automatic	5 M/T	Automatic
Axle ratio (or overall top gear ratio)						
No. of teeth	Pinion	20	17	18	15	18
	Ring gear or gear	63	59	57	52	57
Ring gear o.d.		170.2	175.4	170.6	174.2	170.6
Transaxle	Transfer gear ratio	-	-	1.136	-	1.150
	Final drive ratio	3.150	3.470	3.166	3.466	3.166

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Engine Description/Carb.
Engine Code

C12A 4MT	C12A 5MT, AT	C13A
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Axle Shafts – Front Wheel Drive

Number used		two			
Type (straight, solid bar, tubular, etc.)		Left	Straight Bar		
		Right	Straight Bar		
Outer diam. x length* x wall thickness	Manual transmission	Left	22x690.5	22x676	23.2x338
		Right	22x348	22x348	23.2x338
	Automatic transmission	Left	—	22x676	23.2x338
		Right	—	22x348	23.3x351
	Optional transmission	Left	—	—	—
		Right	—	—	—
Slip yoke	Type	None			
	Number of teeth	—			
	Spline o.d.	—			
Universal joints	Make and mtg. no.	Inner	MMC	Toyo Bearing Co., Ltd.	
		Outer	MMC	Toyo Bearing Co., Ltd.	
	Number used		two x two		
	Type, size, plunge	Inner	C.V. Joint		
		Outer	C.V. Joint		
	Attach (u-bolt, clamp, etc.)		—		
Bearing	Type (plain, anti-friction)	—			
	Lubrication (fitting, prepack)	—			
Drive taken through (torque tube, arms or springs)		Lower Arm & Strut			
Torque taken through (torque tube, arms or springs)		Lower Arm & Strut			

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

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Body Type And/Or
Engine Displacement

C12A			C13A	
MFMLF/H	MNDLF/H	MKDLF/H	MNJTLF/H	MKJTLF/H

Suspension – General

Car leveling	Std./opt./n.a.	N.A.
	Type (air, hyd., etc.)	N.A.
	Manual/auto. controlled	N.A.
Provision for brake dip control		N.A.
Provision for accel. squat control		N.A.
Provisions for car jacking		N.A.
Shock absorber (front & rear)	Type	Front : Strut type Rear : Telescopic type
	Make	Kayaba Industry Co.Ltd.
	Piston diameter	Front : 30 (mm) Rear : 20 (mm)
	Rod diameter	Front : 20 (mm) Rear : 10 (mm)

Suspension – Front

Type and description		Independent strut type	
Drive and torque taken through			
Travel	Full jounce	110	(mm)
	Full rebound	60	(mm)
Spring	Type (coil, leaf, other) & material	Coil 9254 (Spring steel, Specified in SAE)	
	Insulators (type & material)	-	
	Size (coil design height & i.d., bar length x dia.)	343 116.6	333 116.0
	Spring rate [N/mm (lb./in.)]	17.64 (100)	21.27 (121)
	Rate at wheel [N/mm (lb./in.)]	15.68 (89)	18.9 (108)
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	Sup 6 14 (mm)	Sup 6 16 (mm)

Suspension – Rear

Type and description		Independent full trailing arm	
Drive and torque taken through		-	
Travel	Full jounce	128	(mm)
	Full rebound	70	(mm)
Spring	Type (coil, leaf, other) & material	Coil 9254 (Spring steel, Specified in SAE)	
	Size (length x width, coil design height & i.d., bar length & dia.)	324.5 91.7	
	Spring rate [N/mm (lb./in.)]	15.68 to 19.60 (90 to 113)	
	Rate at wheel [N/mm (lb./in.)]	15.68 to 19.60 (90 to 113)	
	Insulators (type & material)	Rubber pad	
	If leaf	No. of leaves	-
		Shackle (comp. or tens.)	-
Stabilizer	Type (link, linkless, frameless)	-	Link
	Material & bar diameter	-	SUP6 16 (mm)
Track bar (type)		-	

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METRIC (U.S. Customary)

Car Line Mitsubishi Mirage (2D)
Model Year 1986 Issued 3-1-1985 Revised (•) _____

Body Type And/Or
Engine Displacement

C12A			C13A	
MFMLF/H	MNDLF/H	MKDLF/H	MNJTLF/H	MKJTLF/H

Brakes - Service

Description			-	
Brake type (std., opt., n.a.)	Front (disc or drum)		Disc	
	Rear (disc or drum)		Drum	
Self-adjusting (std., opt., n.a.)			Std.	
Special valving	Type (proportion, delay, metering, other)		Proportion Valve	
Power brake (std., opt., n.a.)			Std.	
Booster type (remote, integral, vac., hyd., etc.)			Integral	
Vacuum source (inline, pump, etc.)			Inline	
Vacuum reservoir (volume in. ³)			-	
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			-	
Anti-skid device type (std., opt., n.a.) (F/R)			N.A.	
Effective area [cm ² (in. ²)]*			F:160(24.8) / R:208(32.2)	F:200(31.0) / R:208(32.2)
Gross lining area [cm ² (in. ²)]** (F/R)			F:165(25.6) / R:208(32.2)	F:206(31.9) / R:208(32.2)
Swept area [cm ² (in. ²)]*** (F/R)			F:1099(170.3) / R:396(61.4)	F:1140(176.7) / R:396(61.4)
Rotor	Outerworking diameter	F/R	F:241 (mm) / R: -	F:240 (mm) / R: -
	Inner working diameter	F/R	F:152 (mm) / R: -	F:146 (mm) / R: -
	Thickness	F/R	F: 13 (mm) / R: -	F: 18 (mm) / R: -
	Material & type (vented/solid)	F/R	F:Cast iron (Solid) / R: -	F:Cast iron (Vented) / R: -
Drum	Diameter & width	F/R	F: - / R:180 & 39.5 (mm)	
	Type and material	F/R	F: - / R:Cast iron	
Wheel cylinder bore			F:51.1 (mm) / R:19.05 (mm)	F:53.97(mm) / R:19.05 (mm)
Master cylinder	Bore/stroke	F/R	Bore:20.64/Stroke (Pri:13, Sec:15) (mm)	Bore:22.22/Stroke (Pri:13, Sec:15) (mm)
Pedal arc ratio			4.5	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			9740 (1413)	9533 (1383)
Lining clearance			F:No major adjustment required / R:0.15-0.35 (self adjusting)	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Bonded	
		Rivet size	-	
		Manufacturer	Sumitomo Electric Industry Co.,Ltd.	Akebono Brake Industry Co.,Ltd.
		Lining code*****	Sumitomo M2238 FF	Sumitomo M2227 FF
		Material	Molded	
		**** Primary or out-board	98x40.9x10 (mm)	116x43.1x10.5 (mm)
		Size Secondary or in-board	98x40.9x10 (mm)	116x43.1x10.5 (mm)
		Shoe thickness (no lining)	5.0 (mm)	5.0 (mm)
	Rear wheel	Bonded or riveted (rivets/seg.)	Bonded	
		Manufacturer	Akebono Brake Industry Co.,Ltd.	
		Lining Code*****	AKP330FF	
		Material	Molded	
		**** Primary or out-board	148.6x35x4.3 (mm)	
		Size Secondary or in-board	148.6x35x4.3 (mm)	
	Shoe thickness (no lining)	1.6 (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.

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Body Type And/Or
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C12A			C13A	
MFMLF/H	MNDLF/H	MKDLF/H	MNJTLF/H	MKJTLF/H

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P145/80R13,B	P155/80R13,B	185/60R14,B
	Type (bias, radial, etc.)		Radial	Radial	Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	216 (31)	180 (26)	180 (26)
		Rear (kPa (psi))	216 (31)	180 (26)	180 (26)
	Rev./mile—at 70 km/h (45 mph)		938	918	921
Wheels	Type & material		Disc, Steel		
	Rim (size & flange type)		13x4 1/2J	13x5J	14x5 1/2 JJ
	Wheel offset		46		
	Attachment	Type (bolt or stud)	Stud		
		Circle diameter	114.3		
		Number & size	Four M12x1.5 (Metric)		
Spare	Tire and wheel (same, if other describe)		T105/70 D14 High pressure tire		
	Storage position & location (describe)		On cargo floor		

Tires And Wheels (Optional)

Size (load range, ply)	-	185/60R14.8
Type (bias, radial, etc.)	-	Radial
Wheel (type & material)	-	Disc Aluminum
Rim (size, flange type and offset)	-	14x5 1/2 JJ. 46
Size (load range, ply)	-	-
Type (bias, radial, etc.)	-	-
Wheel (type & material)	-	-
Rim (size, flange type and offset)	-	-
Size (load range, ply)	-	-
Type (bias, radial, etc.)	-	-
Wheel (type & material)	-	-
Rim (size, flange type and offset)	-	-
Size (load range, ply)	-	-
Type (bias, radial, etc.)	-	-
Wheel (type & material)	-	-
Rim (size, flange type and offset)	-	-
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position		

Brakes — Parking

Type of control	1 Handle hand-operated	
Location of control	Between front seats	
Operates on	Rear wheels	
If separate from service brakes	Type (internal or external)	-
	Drum diameter	-
	Lining size (length x width x thickness)	-

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Body Type And/Or
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C12A			C13A	
MFMLF/H	MNDLF/H	MKDLF/H	MNJTLF/H	MKJTLF/H

Steering

Manual (std., opt., n.a.)			Std.		
Power (std., opt., n.a.)			N.A.	Opt.	
Adjustable steering wheel (tilt, swing, other)	Type and description		-		
	(Std., opt., n.a.)		-		
Wheel diameter (W9) SAE J1100	Manual		380		
	Power		N.A.		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.0	10.7	
		Curb to curb (l. & r.)	9.2	9.9	
	Inside rear	Wall to wall (l. & r.)	-	-	
		Curb to curb (l. & r.)	-	-	
Scrib Radius*					
Manual	Gear	Type	Rack & Pinion		
		Make	Koyo Seiko Co., Ltd		
		Ratios	Gear	-	
		Overall	21.6	20.3	
	No. wheel turns (stop to stop)	4.2	3.7		
Power	Type (coaxial, linkage, etc.)		N.A.	Coaxial	
	Make		N.A.	Koyo Seiko Co., Ltd.	
	Gear	Type	N.A.	Rack & Pinion	
		Ratios	Gear	N.A.	-
		Overall	N.A.	15.2	
		Pump (drive)	N.A.	V-Belt	
	No. wheel turns (stop to stop)	N.A.	2.8		
Linkage	Type		Trailing equal length tie rods		
	Location (front or rear of wheels, other)		Rear		
	Tie rods (one or two)		Two		
Steering axis	Inclination at camber (deg.)		13°40'		
	Bearings (type)	Upper	Ball Bearing		
		Lower	Ball Joint		
		Thrust	N.A.		
Steering spindle & joint type		Ball			
Wheel spindle	Diameter	Inner bearing	38.100		
		Outer bearing	38.100		
	Thread (size)		M22x1.5 (Metric)		
	Bearing (type)		Tapered roller		

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

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Body Type And/Or
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C12A		C13A
MFMLF/H MNDLF/H	MKDLF/H	

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	$0^{\circ}43' \pm 30'$
		Camber (deg.)	$0^{\circ} \pm 30'$
		Toe-in [outside track-mm (in.)]	3 to -3 (0.118 to -0.118)
	Service reset*	Caster	
		Camber	
		Toe-in	
	Periodic M.V. in- spection	Caster	
		Camber	
		Toe-in	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	$-40' \pm 30'$
		Toe-in [outside track-mm (in.)]	$0 \pm 4.5 (0 \pm 0.177)$
	Service reset*	Camber	
		Toe-in	
	Periodic M.V. in- spection	Camber	
		Toe-in	

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

Electrical – Instruments and Equipment

Speed- ometer	Type	In-Line driving pointer	
	Trip odometer (std., opt., n.a.)	Standard with combination meter	
EGR maintenance indicator		N.A.	
Charge indicator	Type	Voltage relay	
	Warning device	Light	
Temperature indicator	Type	Bimetal, Cross coil ... only turbo car	
	Warning device	Driving pointer	
Oil pressure indicator	Type	N.A.	
	Warning device	Light	
Fuel indicator	Type	Bimetal, Cross coil ... only turbo car	
	Warning device	Driving pointer	
Wind- shield wiper	Type (standard)	Electric two speed with variable intermittent	
	Type (optional)	opt.	
	Blade length	480	
	Swept area (cm ² (in. ²))	5727 (878)	
Wind- shield washer	Type (standard)	Electric	
	Type (optional)	N.A.	
	Fluid level indicator	N.A.	Std.
Horn	Type	90 diameter	
	Number used	One	two
Other		Brake system and parking brake warning light, fasten belts warning light.	

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Engine Description/Carb.
Engine Code

G15B (1.468 Liters)		G32B with Turbo (1.597 Liters)
MT	AT	MT, AT

Electrical – Supply System

YUASA BATTERY CO.,LTD. or JAPAN SATAGE BATTERY CO.,LTD. or MATSUSHITA

Battery	Make	BATTERY IND.CO.,LTD. or SHIN-KOBE ELECTRIC MACHINERY CO.,LTD.	
	Model, std., (opt.)	NT80-S6(S)-M/F	NX100-S6(S)-M/F
	Voltage	12	
	Amps at 0°F cold crank	375	420
	Minutes-reserve capacity	70	75
	Amp/hrs. - 20 hr. rate	45	
	Location	Front, right side of engine compartment	
Generator or alternator	Type and rating	50	55 65
	Ratio (alt. crank/rev.)	2.65 : 1	
	Optional (type & rating)	N.A.	
Regulator	Type	Voltage control	

Electrical – Starting System

Start, motor	Current drain at 0°F	
Motor drive	Engagement type	Solenoid
	Pinion engages from (front, rear)	Front

Electrical – Ignition System

Type	Electronic (std., opt., n.a.)	Std.	
	Other (specify)		
Coil	Make	Diamond Electric Manufacturing Co., Ltd.	
	Model	E-064	LB-119
	Current	Engine stopped – A	
		Engine idling – A	1.4
Spark plug	Make	NGK Spark Plug Co., Ltd. or Champion Spark Plug Co., Ltd. or NIPPON DENSO	
	Model	BUR6EA-11 or RN9Y or W20EPR-S11	BUR7EA-11 or W22EPR-S11
	Thread (mm)	14	
	Tightening torque [N·m (lb. ft)]	20 to 30 (15 to 22)	
	Gap	1.0 to 1.1	
	Number per cylinder	1	
Distributor	Make	Mitsubishi Electric Corp.	
	Model		

Electrical – Suppression

Locations & type	
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METRIC (U.S. Customary)

Car Line Mitsubishi Mirage (2D)
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Body Type

Body

Structure	Monocock body
Bumper system front - rear	Impact absorbing system Fascia (Polyurethane) Energy absorber (Polyurethane) Reinforcement (Steel)
Anti-corrosion treatment	Cathodic ED paint Extended use of galvanealed steel Wax injection Stone chipping resistance coating

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Heat setting acrylic enamel
Hinge location (front, rear)	Rear
Type (counterbalance, prop)	-
Release control (internal, external)	Internal
Type (counterbalance, other)	-
Internal release control (elec., mech., n.a.)	-
Type (counterbalance, other)	Gas spring
Internal release control (elec., mech., n.a.)	Mech
Vent window control (crank, friction, pivot, power)	Front None Rear None
Seat cushion type (e.g., 60 40, bucket, bench, wire, foam etc.)	Front bucket, spring Rear bench, foam 3rd seat
Seat back type (e.g., 60 40, bucket, bench, wire, foam etc.)	Front bucket, spring Rear bench, foam 3rd seat

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Body Type

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	Front: 3 point seat belt with ELR Rear: 2 point seat belt with ALR (outboard) 2 point seat belt with manual adjusting device (center)
	Location	Front, Rear
Passive seat belts	Standard/optional	N.A.
	Power/manual	-
	2 or 3 point	-
	Knee bar/lap belt	-

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	
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Glass	SAE Ref. No.	
Windshield glass exposed surface area (cm ² (in. ²))	S1	7997 cm ²
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	12440 cm ²
Backlight glass exposed surface area (cm ² (in. ²))	S3	7500 cm ²
Total glass exposed surface area (cm ² (in. ²))	S4	27937 cm ²
Windshield glass (type)		Curved-Laminated plate
Side glass (type)		Curved-Tempered plate
Backlight glass (type)		Curved-Tempered plate

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Body Type

C12A		C13A
L-LINE	M-LINE	

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

Air conditioning (manual, auto. temp control)		Opt. (Manual temp control)	
Clock (digital, analog)		NA	ANALOG
Compass / thermometer		N.A.	
Console (floor, overhead)		Floor Console	
Defroster, elec. backlight			
Electronic	Diagnostic warning (integrated, individual)	NA	INTEGRATED
	Instrument cluster (list instruments)		
	Keyless entry	N.A.	
	Tripminder (avg. spd., fuel)	N.A.	
	Voice alert (list items)	N.A.	
	Other		
Fuel door lock (remote, key, electric)		KEY	
Lamps	Auto head on / off delay, dimming	N.A.	
	Cornering	N.A.	
	Courtesy (map, reading)	N.A.	
	Door lock, ignition	N.A.	
	Engine compartment	N.A.	
	Fog	N.A.	
	Glove compartment	N.A.	
	Trunk	N.A.	
Mirrors	Day/night (auto. man.)	NA	Std. (man.)
	L.H. (remote, power, heated)	Std	Std. (Remote)
	R. H. (convex, remote, power, heated)	NA	Std. (Remote, Convex)
	Visor vanity (RH / LH, illuminated)	NA	
Parking brake-auto release (warning light)		Warning Light	
Power equipment	Door locks / deck lid - specify		
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)		
	Side windows		
	Vent windows		
	Rear window		
Radio systems	Antenna (location, whip, w/shield, power)	Opt. (whip on Roof)	
	AM, FM, stereo, tape, CB	Opt. (AM, AM/FM MPX, AM/FM electric tuning radio & cassette player etc.)	
	Speaker (number, location) Premium sound	Opt. (2 or 4 speaker)	
Roof open air/fixd (flip-up, sliding, "T")		NA	OPT SLIDING
Speed control device		N.A.	
Speed warning device (light, buzzer, etc.)		N.A.	
Tachometer (rpm)		Driving pointer	
Theft protection-type		Disk tumbler, keylocks on ignition switch, doors, fuel lid, luggage compartment & lockable steering.	

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Mitsubishi Mirage (2D)

Model Year 1986

Issued 3-1-1985

Revised (●)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.

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

Body Type	SAE Ref. No.	
Width		
Tread (front)	W101	1390
Tread (rear)	W102	1340
Vehicle width	W103	1620 [(1635) with protector]
Body width at Sg RP (front)	W117	1620 [(1635) with protector]
Vehicle width (front doors open)	W120	3785
Vehicle width (rear doors open)	W121	-
Front fender overall width	W106	1590
Rear fender overall width	W107	1590
Tumble-home (deg.)	W122	28.5°

Length

Wheelbase	L101	2380
Vehicle length	L103	3995
Overhang (front)	L104	850
Overhang (rear)	L105	765
Upper structure length	L123	2610
Rear wheel C L "X" coordinate	L127	2380
Cowl point "X" coordinate	L125	315
Front end length at centerline	L126	1060
Rear end length at centerline	L129	100

Height*

Passenger distribution (front/rear)	PD1.2.3	Front : 2. Rear : 3
Trunk cargo load		-
Vehicle height	H101	1290
Cowl point to ground	H114	880
Deck point to ground	H138	820
Rocker panel-front to ground	H112	160
Bottom of door closed-front to grd.	H133	225
Rocker panel-rear to ground	H111	145
Bottom of door closed-rear to grd.	H135	-
Windshield slope angle	H122	60
Backlight slope angle	H121	57

Ground Clearance*

Front bumper to ground	H102	220 [(195) with Air dam]
Rear bumper to ground	H104	235
Bumper to ground (front at curb mass (wt.))	H103	255 [(230) with Air dam]
Bumper to ground (rear at curb mass (wt.))	H105	335
Angle of approach (degrees)	H106	20
Angle of departure (degrees)	H107	27
Ramp breakover angle (degrees)	H147	
Axle differential to ground (front / rear)	H153	185
Min. running ground clearance	H156	90
Location of min. run. grd. clear.		Muffler

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

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Body Type

SAE
Ref.
No.**Front Compartment**

Sg RP front, "X" coordinate	L31	1280
Effective head room	H61	957 / 913 (Sunroof)
Max. eff. leg room (accelerator)	L34	1030
SgRP to heel point	H30	260
SgRP to heel point	L53	820
Back angle	L40	25°
Hip angle	L42	85°
Knee angle	L44	165
Foot angle	L46	68
Design H-point front travel	L17	180
Normal driving & riding seat track trvl.	L23	180
Shoulder room	W3	1340
Hip room	W5	1358
Upper body opening to ground	H50	1210
Steering wheel maximum diameter	W9	380
Steering wheel angle	H18	25.7°
Accel. heel pt. to steer. whl. cntr	L11	445
Accel. heel pt. to steer. whl. cntr	H17	630
Steering wheel to C / L of thigh	H13	75
Steering wheel torso clearance	L7	350
Headlining to roof panel (front)	H37	15
Undepressed floor covering thickness	H67	7

Rear Compartment

Sg RP Point couple distance	L50	740
Effective head room	H63	932/910 (Sunroof)
Min. effective leg room	L51	780
Sg RP (second to heel)	H31	285
Knee clearance	L48	30
Compartment room	L3	610
Shoulder room	W4	1378
Hip room	W6	992
Upper body opening to ground	H51	-
Back angle	L41	26°
Hip angle	L43	84
Knee angle	L45	75
Foot angle	L47	103°
Headlining to roof panel (second)	H38	15
Depressed floor covering thickness	H73	7

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	6.2
Liftover height	H195	784

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		SUB COMPACT
Interior volume index (cu. ft.)		92.8
Trunk/cargo index (cu. ft.)		11.7

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Car and Body Dimensions

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See Key Sheets for definitions

Body Type

SAE
Ref.
No.

Station Wagon – Third Seat

Sg RP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Sg RP to heel point	H87	
Knee clearance	L87	
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	
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	
Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [m ³ (ft. ³)]	V2	
Hidden cargo volume [m ³ (ft. ³)]	V4	
Cargo volume index-rear of 2-seat	V10	

Hatchback – Cargo Space

		NORMAL SEAT	SPORT SEAT
Cargo length at front seatback height	L208	1180	1190
Cargo length at floor (front)	L209		1430
Cargo length at second seatback height	L210		390
Cargo length at floor (second)	L211		680
Front seatback to load floor height	H197	415	420
Second seatback to load floor height	H198		390
Cargo volume index [m ³ (ft. ³)]	V3		0.29
Hidden cargo volume [m ³ (ft. ³)]	V4		-
Cargo volume index-rear of 2-seat	V11		-

Aerodynamics*

Wheel lip to ground, front		650
Wheel lip to ground, rear		590
Frontal area [m ² (ft. ²)]	1.76(19.0) P145/80R13, 1.77(19.1) P155/80R13, 1.79(19.2) 185/60R14	
Drag coefficient (Cd)		0.39

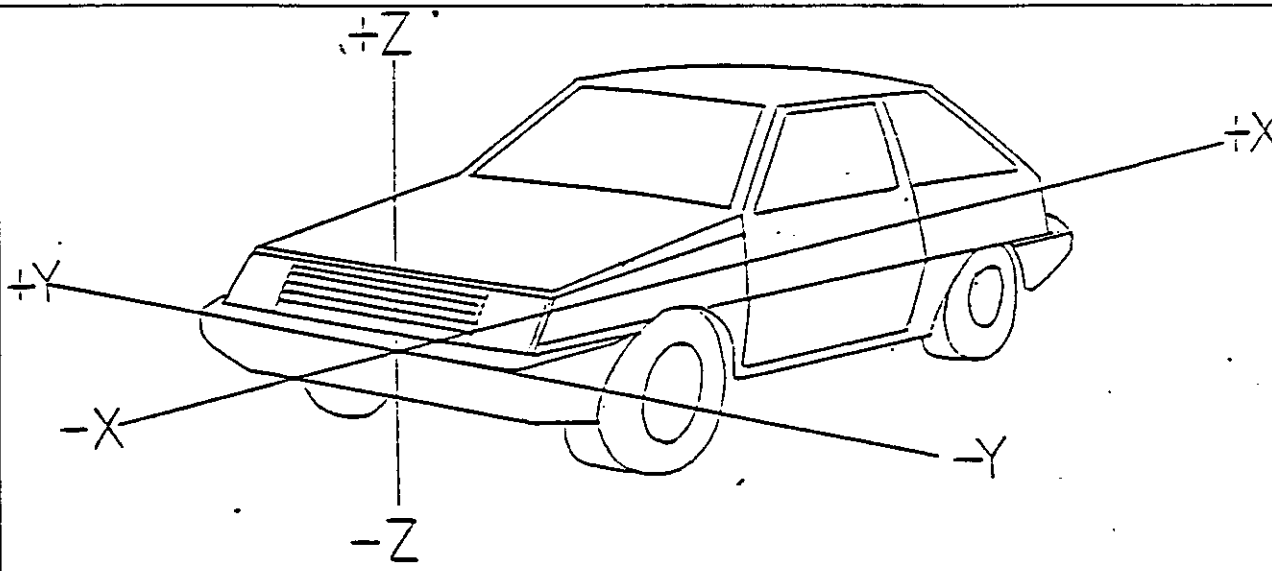
* EPA Loaded Vehicle Weight, Loading Conditions

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Body Type

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location	
Front	 <p>Datum plane definition - Vertical longitudinal plane through the longitudinal center of the car.</p> <p>Vertical transverse plane through the front wheel center.</p> <p>Horizontal plane through the lower surface of the front floor panel.</p>	
Rear		
Fiducial Mark Number		
Front	W21	341
	L54	65
	H81	-25
	H161	
	H163	
Rear	W22	516
	L55	2900
	H82	245
	H162	
	H164	

* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.
 All linear dimensions are in millimeters (inches).

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line Mitsubishi Mirage (2D)
 Model Year 1986 Issued 3-1-1985 Revised (•) _____

Body Type

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	635
		Lowest	-
	Taillamp (SAE - H128)	Highest**	710
		Lowest	-
	Sidemarker	Front	570
		Rear	790
Distance from C.L. of car to center of bulb	Headlamp	Inside	-
		Outside**	560
	Taillamp	Inside	-
		Outside**	580
	Directional	Front	510
		Rear	580
Halogen headlamp (std., opt., n.a.)	Lo beam		Std. (only H line)
	Hi beam		Std. (only H line)
	Replaceable bulb		N.A.
	Shape		5.6x7.9 in rectangular unit
Headlamp other than above	Lo beam		Std. (except H line)
	Hi beam		Std. (except H line)
	Replaceable		N.A.
	Shape		5.6x7.9 in rectangular unit
	Type		2B1

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

Passenger Car

METRIC (U.S. Customary)

Model Year 1986

Issued 3-1-1985 Revised (●)

[illegible]

** Shipping mass (weight) definition –

METRIC (U.S. Customary)

Model Year 1986 Issued 3-1-1985 Revised (●) _____

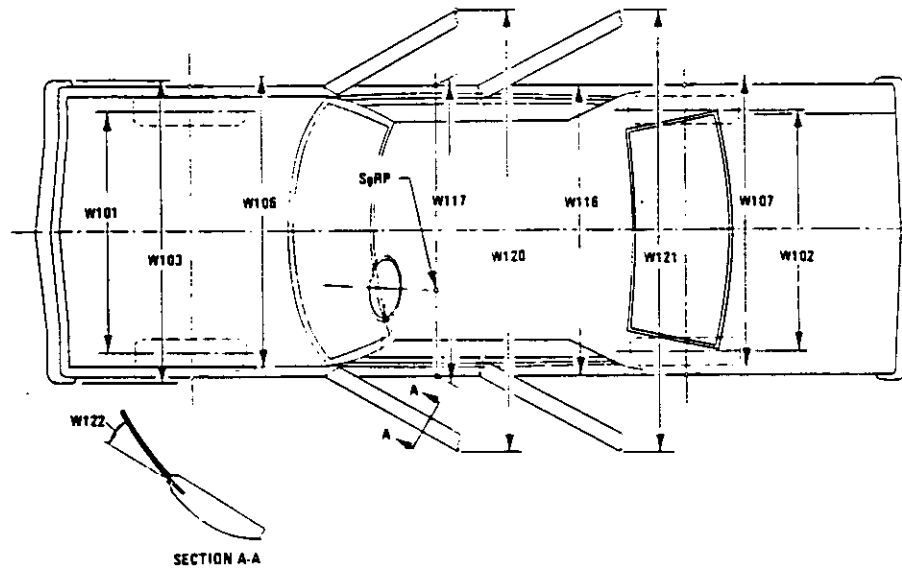
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*Also see Engine - General Section for dressed engine mass (weight).

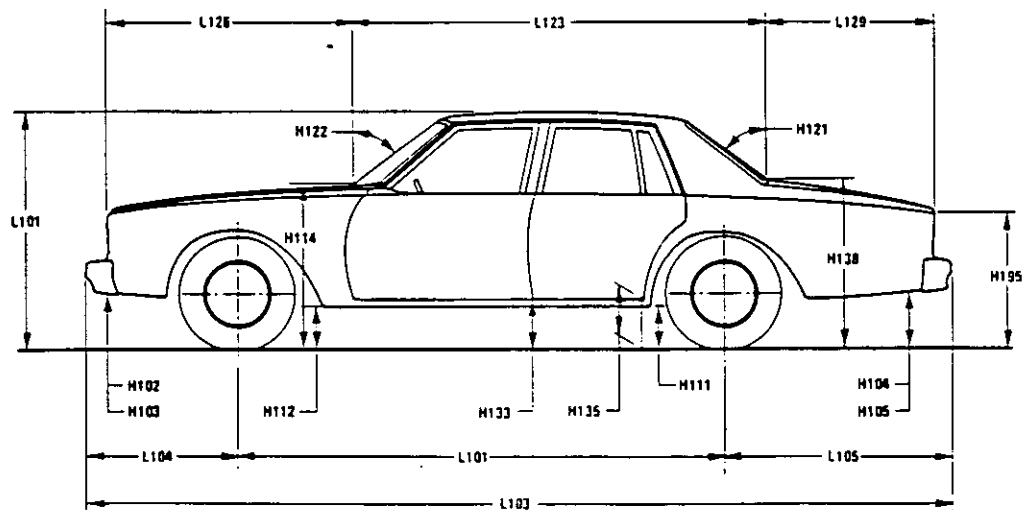
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

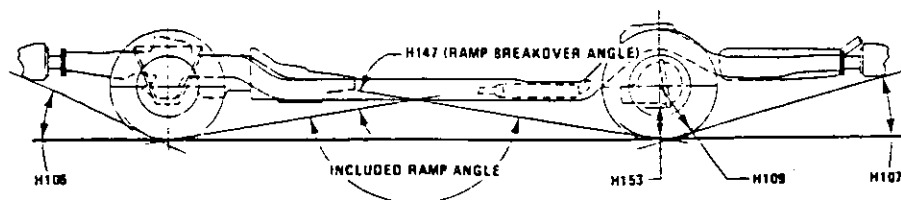
Exterior Width



Exterior Length & Height



Exterior Ground Clearance

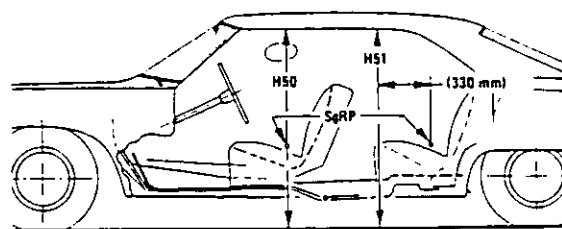
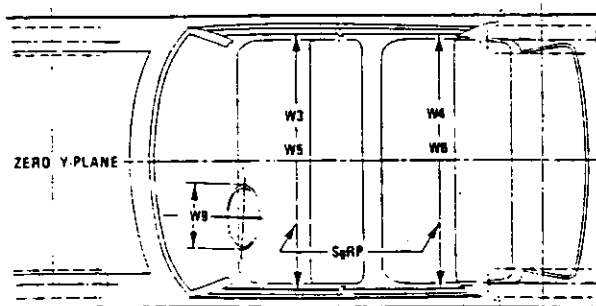
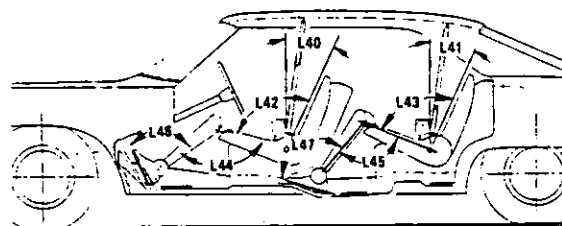
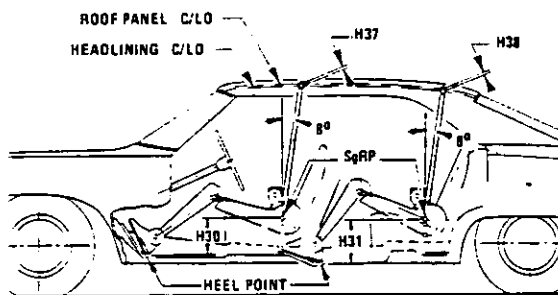
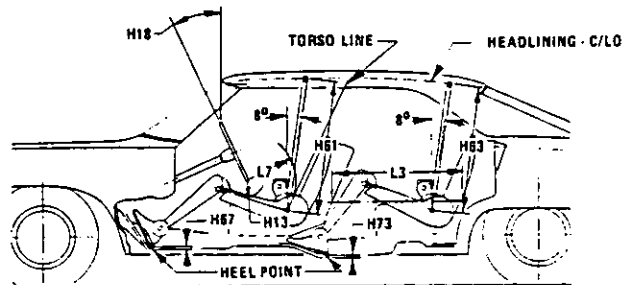
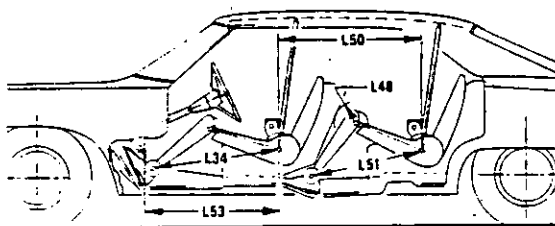


MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet



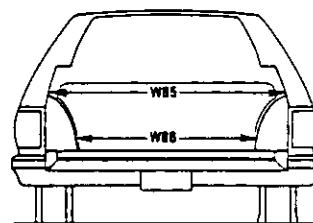
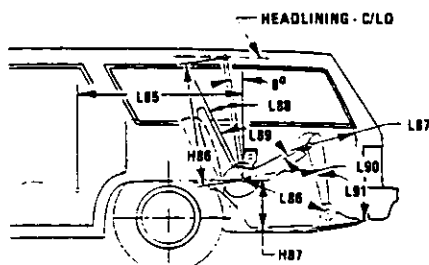
MVMA Specifications Form

Passenger Car

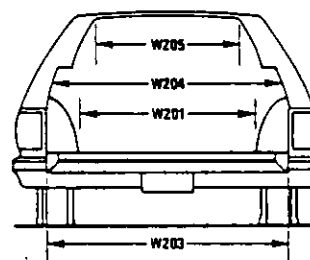
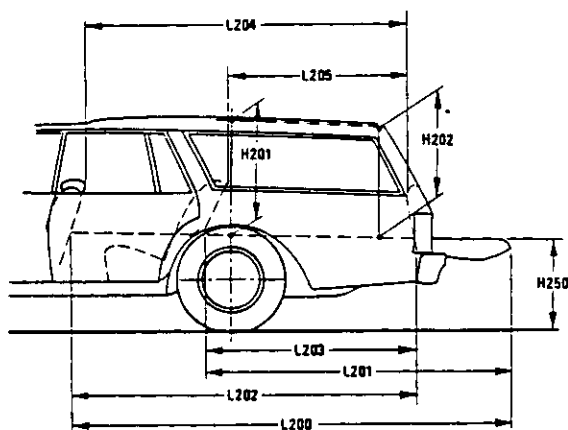
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

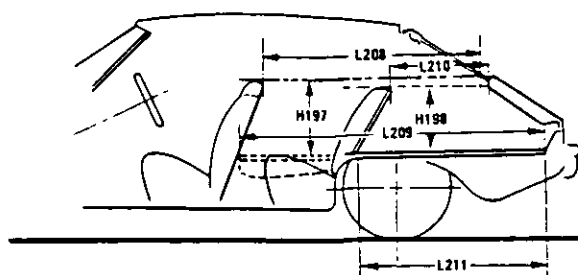
Third Seat



Cargo Space



Station Wagon



Hatchback

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Exterior Car And Body Dimensions — Key Sheet

Dimensions Definitions

Seating Reference Point

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

- (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- (b) Has coordinates established relative to the design vehicle structure;
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "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.

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.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Interior Car 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.
- 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.
- 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.
- L40 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.
- L42 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 front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

Dimensions Definitions

- L41 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 front seat-back 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-J1100.
- 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. rear from the SgRP-third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- 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 seat-back 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 seat-back at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH-WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Interior Car 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:

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

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

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