MOTOR VEHICLE

Specifications

METRIC (U.S. Customary)

Passenger Car

1985

Manufacturer	Car Line	
Mitsubishi Motors Corporation	Mitsubishi Mirage	
Mailing Address		
33-8, Shiba 5-chome, Minato-ku, Tokyo, 108, Japan	Issued 3-1-1984	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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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 and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Models

Model Description FWD/RWD	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)
2 DOOR HATCH BACK		C12AMFMLF/H C12AMNDLF/H C12AMKDLF/H C12AMNJLF/H C13AMNJTLF/H C13AMKJTLF/H	5 (2/3) 5 (2/3) 5 (2/3) 5 (2/3) 5 (2/3) 5 (2/3)	35 (77 lbs)

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Power Teams (Indicate whether standard or optional)

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

SERIES AVAILABILITY	ENGINE						TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in^3)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM		Exhaust S/D		
				kW (bhp)	Torque N - m (lb. ft.)			
C12A Series	1.468 (90)	1 • 2B	9.4	51 (68) at 5500	111 (82) at 3500	S	Manual 4-Speed	3.150
							Manual 5-Speed	3.470
							Automatic 3-Speed	3.166
C13A Series	1.597 (98)	F.I	7.6	77 (102) at 5500	169 (122) at 3000	S	Manual 5-Speed	3.466
							Automatic 3-Speed	3.166

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	MT	AT	MT	AT

ENGINE — GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sonc, donc, ohv, hemi, wedge, pre-camber, etc.)		In line, Front, Transvers			
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		Cast iron			
Cylinder block deck height		201		230.2	
Deck clearance (minimum) (above or below block)		0		0	
Cylinder head material		Aluminum alloy			
Cylinder head volume (cm^3)		34.3		38.5	
Head gasket thickness (compressed)		1.15		1.35	
Minimum combustion chamber total volume (cm^3)		43.7		60.5	
Cyl. no. system (front to rear)*	L. Bank	N.A.			
	R. Bank	N.A.			
Firing order		1-3-4-2			
Recommended fuel (leaded, unleaded, diesel)		Unleaded			
Fuel antiknock index $\frac{(R+M)}{2}$		RON 91 (minimum)			
Total dressed engine mass (wt) dry**		105	99.6	119.0	111.2

Engine — Pistons

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

Engine — Camshaft

Location	Center of IN. and EX. valve on cylinder-head			
Material (kg., weight, lbs.)	Cast iron			
	2.45 (5.40)		2.41 (5.31)	
Drive type — Chain/belt	Belt			
Drive type — 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	

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			
By-pass recirculation [type (inter,. ext.)]		External			
Cooling system capacity	With heater–L(qt.)				
	With air cond.–L(qt.)				
	Opt. equipment [specify–L(qt.)]				
Water jackets full length of cyl. (yes, no)		Yes			
Water all around cylinder (yes, no)		No		Yes	
Radiator core	Describe (type, material, no. of rows)	Tube and corrugated fin, chalcopyrite			
		1 row	2 rows		
	Std., A/C, HD	–			
	Width	418			
	Height	325		400	
	Thickness	16	32	32	
	Fins per inch	20	20	20	
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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Engine Description/Carb. Engine Code	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. 28-32 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)]		38 (10)
Location (describe)		Underneath rear floorpan
Attachment		Strap
Material		Steel
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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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	Mfgr.		–
	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 mm³ / 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		Steel
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)		N.A.
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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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)		
	Open loop (yes/no)		

Engine — Exhaust System

Type (single, single with cross-over, dual, other)			Single
Muffler no. & type (reverse flow, straight thru, separate resonator)			One (Reverse flow)
Resonator no. & type			None
Exhaust pipe	Branch o.d., wall thickness		
	Main o.d., wall thickness	42.7x1.2	48.6x1.2
	Material		Alminized steel tube
Intermediate pipe	o.d. & wall thickness	38.1x1.2	42.7x1.2
	Material		Alminized steel tube
Tail pipe	o.d. & wall thickness	38.1x1.2	42.7x1.2
	Material		Alminized steel tube

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Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.)	N.A.	
Manual 4-speed (std., opt., n.a.)	Std.	N.A.
Manual 5-speed (std., opt., n.a.)	Std.	Std.
Manual overdrive (std., opt., n.a.)	N.A.	
Automatic (std., opt., n.a.)	Std.	
Automatic overdrive (std., opt., n.a.)	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				
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	
		Winter	SAE 75W-85W	
		Extreme cold	SAE 75W-85W	

Clutch (Manual Transmission)

Make, type, engagement (describe)		Aisin Seiki Co.,Ltd. dry single plate	Daikin Manufacturing Co.,Ltd. dry single plate	Aisin Seiki Co.,Ltd dry single plate	
Type pressure plate springs		Diaphram			
Total spring load [N (lb.)]		3481 (782)	3236 (727)	3481 (782)	
No. of clutch driven discs		One			
Clutch facing	Material	Woven Asbestos			
	Manufacturer	Hitachi Chemical Co.,Ltd.			
	Part number	None			
	Rivets/plate	–			
	Rivet size	4 (mm)			
	Outside & inside dia.	200x130	184x127	200x130	(mm)
	Total eff. area [cm^2($in.^2$)]	363 (56.2)	278 (43.1)	363 (56.2)	
	Thickness	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 and friction washers			

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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, 1.448, 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. internal 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 adjustment (shim, other)		Shim	
Pinion bearing adj. (shim, other)		Shim	
Driving wheel bearing (type)		Tappred roller	
Lubricant	Capacity [L (pt.)]	Refer to transmission spec	
	Type recommended	Refer to transmission spec	
	SAE viscosity number — Summer	Refer to transmission spec	
	SAE viscosity number — Winter	Refer to transmission spec	
	SAE viscosity number — Extreme cold	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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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 thick-ness	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 mfg. 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)		–		
	Bearing — Lubric. (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	MNJLF/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 accl. 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.)	331 117.8	343 116.6	331 117.8	319 116.3	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	–		
	If leaf: Shackle (comp. or tens.)	–		
Stabilizer	Type (link, linkless, frameless)	–	Link	
	Material & bar diameter	–	SUP6 16	
Track bar (type)		–		

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Body Type And/Or Engine Displacement	C12A				C13A	
	MFMLF/H	MNDLF/H	MKDLF/H	MNJLF/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	Outer working 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 (nominal)		F/R	F: – / R:180 (mm)	
	Type and material		F/R	F: – / R:Cast iron	
Wheel cylinder bore				F:51.1 (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 per shoe			F/R	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.	Akebone Brake Industry Co.,Ltd.
		Lining code			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 thickness.

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

Car Line Mitsubishi Mirage
Model Year 1985 Issued 3-1-1984 Revised (•)

Body Type And/Or Engine Displacement	C12A				C13A	
	MFMLF/H	MNDLF/H	MKDLF/H	MNJLF/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, B
Type (bias, radial, etc.)	–	Radial
Wheel (type & material)	–	Disc Aluminum
Rim (size, flange type and offset)	–	14x4 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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Car Line Mitsubishi Mirage
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Body Type And/Or Engine Displacement	C12A				C13A	
	MFMLF/H	MNDLF/H	MKDLF/H	MNJLF/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	Manual			380		
	Power			N.A.		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		9.9	10.4	
		Curb to curb (l. & r.)		9.3	9.8	
	Inside rear	Wall to wall (l. & r.)		-	-	
		Curb to curb (l. & r.)		-	-	
Scrub 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	3.8	
Power	Type (coaxial, linkage, etc.)			N.A.		
	Make			N.A.		
	Gear	Type		N.A.		
		Ratios	Gear	N.A.		
			Overall	N.A.		
	Pump (drive)			N.A.		
	No. wheel turns (stop to stop)			N.A.		
Linkage	Type			Trailing equal length tie rods		
	Location (front or rear of wheels, other)			Rear		
	Drag links (trans. or longit.)			N.A.		
	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		

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Body Type And/Or Engine Displacement	C12A			C13A
	MFMLF/H MNDLF/H	MKDLF/H	MNJLF/H	

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	0°43' ± 30'
		Camber (deg.)	0° ± 30'
		Toe-in [outside track-mm (in.)]	3 to -3 (0.118 to -0.118)
	Service reset*	Caster	
		Camber	
		Toe-in	
	Periodic M.V. inspection	Caster	
		Camber	
		Toe-in	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-40' ± 30'
		Toe-in [outside track-mm (in.)]	0 ± 4.5 (0 ± 0.177)
	Service reset*	Camber	
		Toe-in	
	Periodic M.V. inspection	Camber	
		Toe-in	

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

Electrical — Instruments and Equipment

Speedometer	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	
Windshield wiper	Type (standard)	Electric two speed with variable intermittent	
	Type (optional)	opt.	
	Blade length	480	
	Swept area [cm^2(in.^{2})]	5727 (878)	
Windshield 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

Battery	Make	YUASA BATTERY CO.,LTD. or JAPAN SATAGE BATTERY CO.,LTD. or MATSUSHITA 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	55	65	
	Ratio (alt. crank/rev.)	2.65 : 1	2.43 : 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	Conventional (std., opt., n.a.)	N.A.		
	Electronic (std., opt., n.a.)	Std.		
	Other (specify)			
Coil	Make	Diamond Electric Manufacturing Co., Ltd.		
	Model	E-064		LB-119
	Current – Engine stopped – A	N.A.		
	Current – 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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Body Type

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)		Heat setting acrylic enamel
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	–
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	–
	Internal release control (elec., mech., n.a.)	–
Hatch back lid	Type (counterbalance, other)	Gas spring
	Internal release control (elec., mech., n.a.)	Mech
Bumper front	Bar material & mass (wt.)	Polyurethane (5.5 kg)
	Reinforcement material & mass (wt.)	Steel (8.5 kg)
Bumper rear	Bar material & mass (wt.)	Polyurethane (5.8 kg)
	Reinforcement material & mass (wt.)	Steel (9.8 kg)
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	None
Seat cushion type	Front	SPRING
	Rear	URETHANE FOAM
	3rd seat	–
Seat back type	Front	SPRING
	Rear	URETHANE FOAM
	3rd seat	–
Vehicle ident. no. location		

Frame

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

Glass

Backlight slope angle (deg.)	H121	57°
Windshield slope angle (deg.)	H122	59°
Tumble-Home (deg.)	W122	28.5°
Windshield glass exposed surface area [cm^2($in.^2$)]	S1	7997 cm^2
Side glass exposed surface area [cm^2($in.^2$)]	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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Car Line Mitsubishi Mirage

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METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	

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	—

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Passenger Car
METRIC (U.S. Customary)

Car Line Mitsubishi Mirage
Model Year 1985 Issued 3-1-1984 Revised (•) _____

Body Type	C12A L-LINE, M-LINE	C13A	C12A H-LINE

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

Air conditioning (manual, auto. temp control)		Opt. (Manual temp control)	
Clock (digital, analog)		Digital	
Compass / thermometer		N.A.	
Console (floor, overhead)		Floor Console	
Defroster, elec. backlight			
Electronic	Diagnostic warning (integrated, individual)	Opt. (partly 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)			
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.	
	Other		
Mirrors	Day/night (auto. man.)	N.A.	Std. (man.)
	L.H. (remote, power, heated)	Std.	Std.
	R. H. (convex, remote, power, heated)	N.A.	Std. (convex)
	Visor vanity (RH / LH, illuminated)	N.A.	RH
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 A-pillar)	
	AM, FM, stero, 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/fixed (flip-up, sliding, "T")			
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

Car Line Mitsubishi Mirage

Model Year 1985 Issued 3-1-1984 Revised (*)

METRIC (U.S. Customary)

Car and Body 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 car line.
SAE Ref. no. refers to the definition published in SAE Recommended Practice.
J1100a "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	–	
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	
Height*			
Passenger distribution (frt./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	–	
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		
Rear-axle differential to ground	H153	–	
Min. running ground clearance	H156	90	
Location of min. run. grd. clear.		Muffler	

All linear dimensions are in millimeters (inches/mm); all mass (weight) specifications are in kilograms (pounds); and all angular dimensions in degrees.

* 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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Passenger Car

Car Line Mitsubishi Mirage
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METRIC (U.S. Customary)
Car and Body Dimensions See Key Sheets for definitions

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
Sg RP (front to heel)	H30	260
Design H-point front travel	L17	180
Shoulder room	W3	1340
Hip room	W5	1358
Upper body opening to ground	H50	1210
Steering wheel angle	H18	25.7°
Back angle	L40	25°

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°

Luggage Compartment

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

Interior Volumes (EPA Classification)

Vehicle class		SUBCOMPACT CARS
Interior volume index (cu. ft.)		L&M line : 92.9 H line : 93.1
Trunk/cargo index (cu. ft.)		L&M line : 11.720 H line : 11.966

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METRIC (U.S. Customary)
Car and Body Dimensions

See Key Sheets for definitions

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Body Type	SAE Ref. No.	

Station Wagon – Third Seat

Shoulder room	W85	–
Hip room	W86	–
Effective leg room	L86	–
Effective head room	H86	–
Effective T-point head room	H89	–
Seat facing direction	SD1	–
Back angle	L88	–

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	Sports Seat
Front seat back to load floor height	H197	415	420
Cargo length at front seat back height	L208	1180	1190
Cargo length at floor (front)	L209	1430	
Cargo volume index [m^3($ft.^3$)]	V3	0.746 (26.35)	0.746 (26.46)
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)]	1.81 (19.6)
Drag coefficient (Cd)	–

* Describe measurement method.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Mitsubishi Mirage

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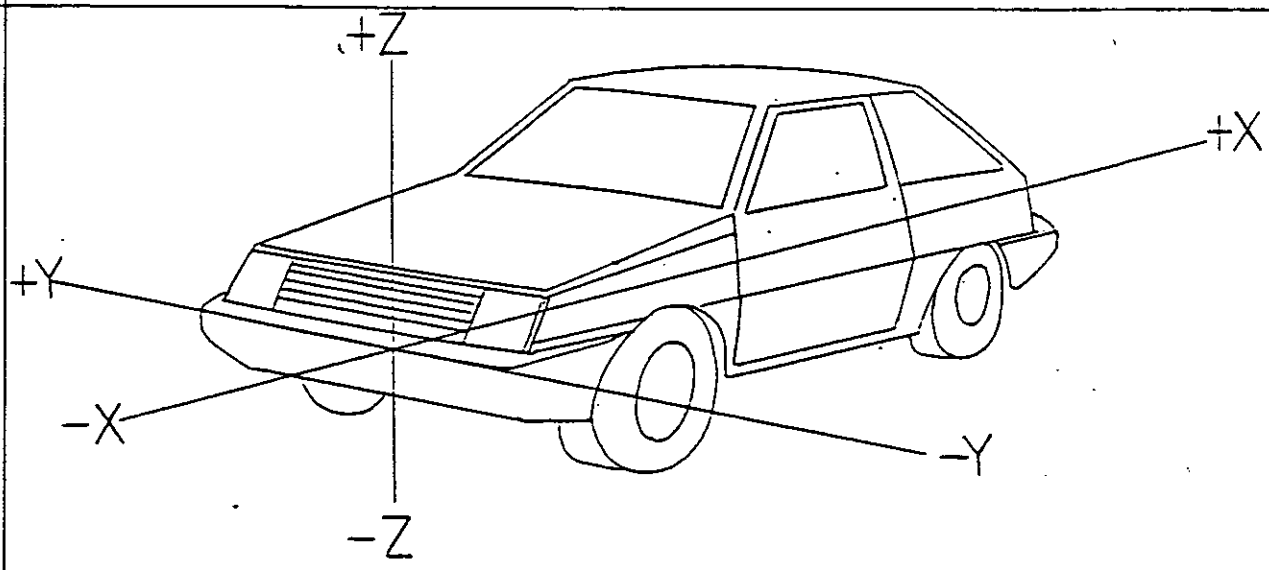
Body Type

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front		
Rear		Datum plane definition – Vertical longitudinal plane through the longitudinal center of the car. Vertical transverse plane through the front wheel center. Horizontal plane through the lower surface of the front floor panel.
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, J182a, Motor Vehicle Fiducial Marks – September, 1973.
All linear dimensions are in millimeters (inches).

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Car Line Mitsubishi Mirage

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METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	635
		Lowest	–
	Taillamp (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
Headlamp shape			5.6x7.9 in rectangular unit

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

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Model	Vehicle Mass (weight)							
	CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION				SHIPPING MASS, kg. (weight, lb.)**
				Pass In Front		Pass In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
C12AMFMLF	527	325	852	50	50	17	83	821
C12AMFMLH	(1162)	(716)	(1878)					(1810)
C12AMNDLF	543	341	884	50	50	17	83	851
C12AMNDLH	(1197)	(752)	(1949)					(1876)
C12AMKDLF	565	339	904	50	50	17	83	871
C12AMKDLH	(1246)	(747)	(1993)					(1920)
C12AMNJLF	550	349	899	50	50	17	83	864
C12AMNJLH	(1213)	(769)	(1982)					(1905)
C13AMNJTLF	602	348	950	50	50	17	83	917
C13AMNJTLH	(1327)	(767)	(2094)					(2022)
C13AMKJTLF	618	346	964	50	50	17	83	931
C13AMKJTLH	(1362)	(763)	(2125)					(2053)
C14AMFMLF	620	340	960	50	50	17	83	927
C14AMFMLH	(1367)	(746)	(2116)					(2044)

* Reference — SAE J1100a, Motor vehicle dimensions, curb weight definition.
** Shipping mass (weight) definition —

: without gasoline

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Car Line Mitsubishi Mirage
Model Year 1985 Issued 3-1-1984 Revised (*)

Optional Equipment Differential Mass (weight)*				
Equipment	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
AM/FM CASSETTE	2	2	4	
	(4)	(4)	(8)	
ALUMINIUM WHEEL (14")	4	6	10	
	(9)	(13)	(22)	

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

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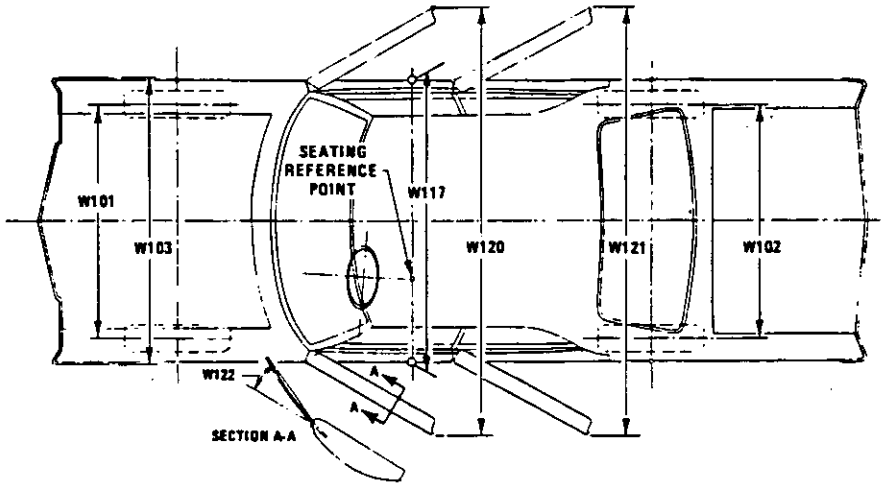
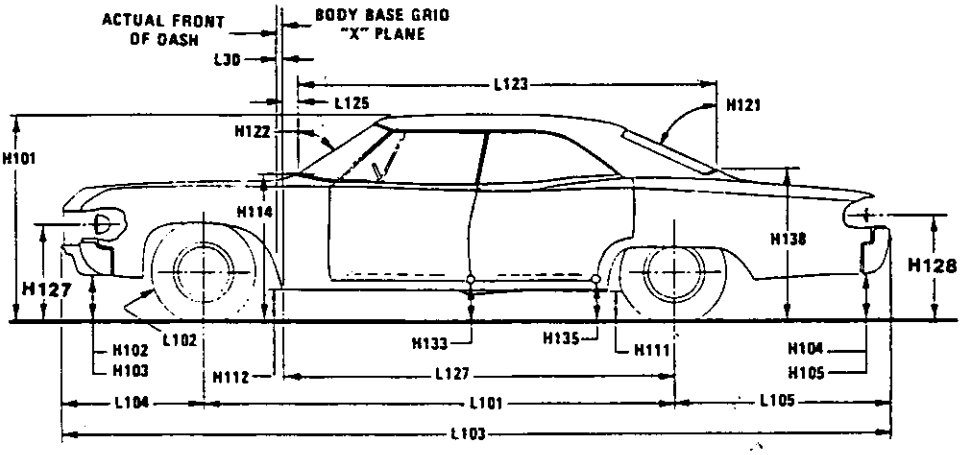
Exterior Car And Body Dimensions – Key Sheet

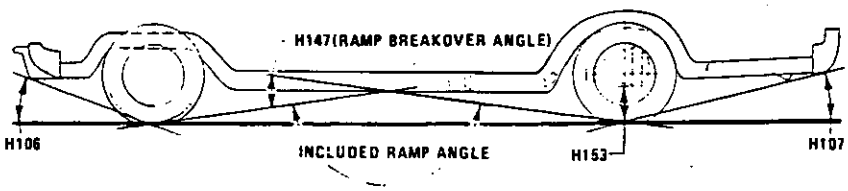
Exterior Width



Exterior Length & Height



Exterior Ground Clearance



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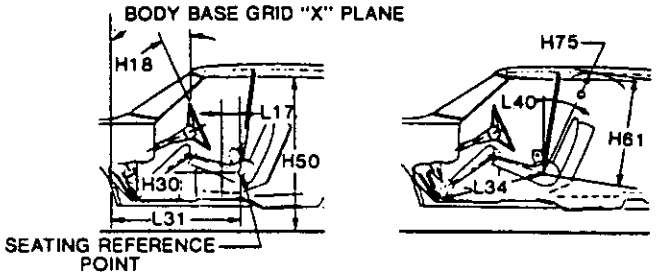
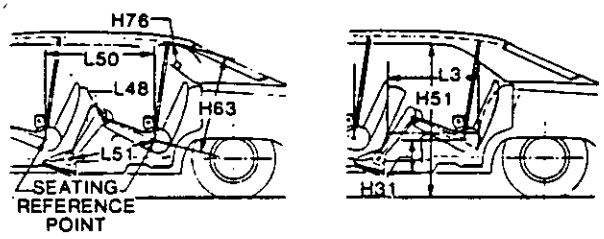
Interior Car And Body Dimensions – Key Sheet

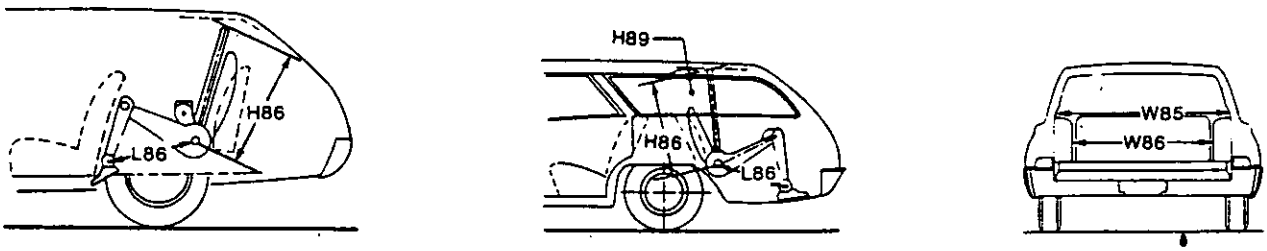
Front Compartment



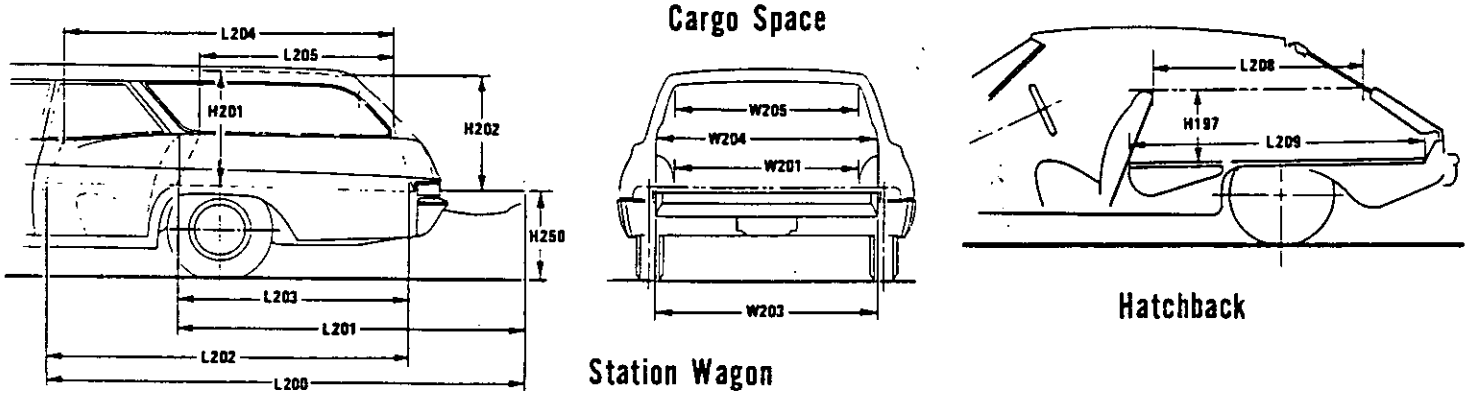
Rear Compartment



Third Seat



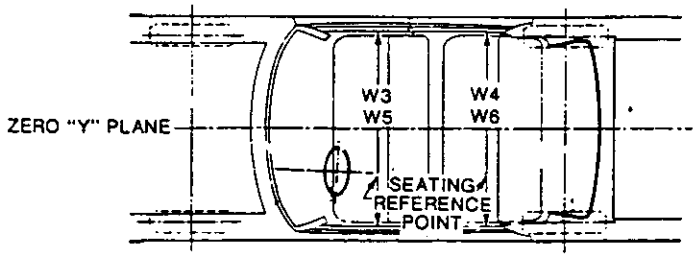
Cargo Space



Station Wagon

Hatchback

Interior Width



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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, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions

W101 TREAD–FRONT. The dimension measured between the tire centerlines at the ground.

W102 TREAD–REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.

W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

W117 BODY WIDTH AT SgRP–FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.

W120 VEHICLE WIDTH–FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.

W121 VEHICLE WIDTH–REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open positions. 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

L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash in forward of the zero "X" plane.

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.

L102 TIRE SIZE. As specified by the manufacturer.

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.

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.

L125 COWL POINT "X" COORDINATE.

Height Dimensions

H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

H114 COWL POINT TO GROUND. Measured at zero "Y" plane.

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

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.

H132 BOTTOM OF DOOR OPEN–FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, 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.

H134 BOTTOM OF DOOR OPEN–REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open 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.

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 are 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.

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 H104.

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.

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Interior Car And Body Dimensions – Key Sheet
Dimensions Definitions

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

H147 REAR 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.

Front Compartment Dimensions

PD1 PASSENGER DISTRIBUTION–FRONT.

L31 SgRP–FRONT "X" COORDINATED.

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.).

H75 EFFECTIVE T-POINT HEAD ROOM–FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).

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.

H30 SgRP–FRONT TO HEEL. The dimension measured vertically from the SgRP–front to the accelerator heel point.

L17 DESIGN H-POINT–FRONT TRAVEL. The dimension measured horizontally between the design H-point–front in the foremost and rearmost seat trace positions.

W3 SHOULDER ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front within the belt line and 254 mm (10.0 in.) above the SgRP–front.

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 the SgRP–front.

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.

H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.

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 manufactuer.

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.

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION–SECOND.

L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP–front to 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.).

H76 EFFECTIVE T-POINT HEAD ROOM–SECOND. Measured in the same manner as H75.

L51 MINIMUM EFFECTIVE LEG ROOM–SECOND. The dimension measured along a line from the ankle pivot center to the SgRP–second plus 254 mm (10.0 in.).

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.

L48 KNEE CLEARANCE–SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).

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.

W4 SHOULDER ROOM–SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP–second within 254-406 mm (10.0-16.0 in.) above the SgRP–second.

W6 HIP ROOM–SECOND. Measured in the same manner as W5.

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.

L-41 Same as L-40.

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

PD3 PASSENGER DIRECTION–THIRD.

W85 SHOULDER ROOM–THIRD. Measured in the same manner as W5.

W86 HIP ROOM–THIRD. Measured in the same manner as W5.

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.).

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.).

H89 EFFECTIVE T-POINT HEAD ROOM–THIRD. Measured in the same manner as H75.

L-88 Same as L-40.

Station Wagon – Cargo Space Dimensions

L200 CARGO LENGTH–OPEN–FRONT. The minimum dimension measured longitudinally from the back of the front

Station wagon – Cargo Space Dimensions (con't.)

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 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 back panel 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 the sheet metal.

W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear door 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.

H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated 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:

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

Measured in mm:

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

V4 HIDDEN CARGO VOLUME. As specified by the manufacturer.

V10 STATION WAGON (REAR OF SECOND SEAT)
Measured in inches:

$$\frac{W4 \times H201 \times L205}{1728} = ft.^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L205}{10^9} = \text{liters}$$

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).

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 vertical dimension from the horizontal tangent to top of seatback to undepressed floor covering at zero "Y" plane.

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 horizontal dimension from the "X" plane tangent to 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–HATCHBACK–SECOND. The horizontal dimension 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.

V3 HATCHBACK.
Measured in inches:

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

Measured in mm:

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

V11 HATCHBACK (REAR OF SECOND SEAT)
Measured in inches:

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

Measured in mm:

$$\frac{W4 \times H198 \times \frac{L210 + L211}{2}}{10^9} = \text{litres}$$

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Index

FEATURE HIGHLIGHTS

(Manufacturers selected list of special vehicle features; indicate if new or model year introduced)

BODY:

- AERODYNAMIC STYLE BODY
- SPACIOUS INTERIOR
- SIDE OPENING FOOD
- SKIRT INTEGRATED BUMPER

CHASSIS:

- FRONT WHEEL DRIVE
- DUAL DIAGONAL BRAKING SYSTEM

ENGINE:

- FEED-BACK CABURETOR SYSTEM
- 3 SPEED ELC. AUTOMATIC TRANSMISSION
- 1.6 ECI TURBO-CHARGED ENGINE WITH MCA. SYSTEM
- 1.8 DEESEL ENGINE WITH SILENT SHAFT AND SUPER QUICK GLOW SYSTEM

ELECTRICAL:

- MAINTENANCE FREE BATTERY

OTHER:

- PUSH-OPEN ASHTRAY