

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1986

Manufacturer Mazda Motor Corporation	Car Line Mazda 626	
Mailing Address 3-1, Shinchu, Fuchu-cho Aki-gun, Hiroshima, Japan	Issued Dec. / 85	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 Line Mazda 626
Model Year 1986 Issued Dec./85 Revised (*)

Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)
Mazda 626 (EGI)	2 Door Coupe	JM1GC311	2 / 3	100 lb.
	5 Door Hatchback	JM1GC241		
	4 Door Sedan	JM1GC221		
Mazda 626 (Turbo)	2 Door Coupe	JM1GC313	2 / 3	100 lb.
	5 Door Hatchback	JM1GC243		
	4 Door Sedan	JM1GC223		

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Power Teams (Indicate whether standard or optional)

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

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in³)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N·m (lb. ft.)			
Mazda 626								
(EGI)	1.998	FI	8.6	93 @ 5000 rpm	115 @ 2500 rpm	S	Manual	4.105
							Automatic	3.450
(Turbo)	1.998	FI	7.8	120 @ 5000 rpm	150 @ 2500 rpm	S	Manual	4.105
							Automatic	3.450

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Car Line Mazda 626

Model Year 1986

Issued Dec./85

Revised (•) _____

Engine Description/Carb.
Engine Code

EGI Turbo

EGI

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Type: <u>Inline</u> Location: <u>Front</u> Engine installation position: <u>Transverse</u>	
Manufacturer	<u>Mazda</u>	<u>Mazda</u>
No. of cylinders	<u>4</u>	<u>4</u>
Bore	<u>86.0 mm</u>	<u>86.0 mm</u>
Stroke	<u>86.0 mm</u>	<u>86.0 mm</u>
Bore spacing (C/L to C/L)	<u>96-98-96 mm</u>	<u>96-98-96 mm</u>
Cylinder block material & mass kg (lbs.)	<u>Gray cast iron</u>	<u>Gray cast iron</u>
Cylinder block deck height	<u>229 mm</u>	<u>229 mm</u>
Deck clearance (minimum) (above or below block)	<u>0</u>	<u>0</u>
Cylinder head material & mass kg (lbs.)	<u>Cast aluminum alloy</u>	<u>Cast aluminum alloy</u>
Cylinder head volume (cm ³)	<u>-</u>	<u>-</u>
Head gasket thickness (compressed)	<u>1.20</u>	<u>1.20</u>
Minimum combustion chamber total volume (cm ³)	<u>-</u>	<u>-</u>
Cyl. no. system (front to rear)*	<u>L. Bank</u> <u>R. Bank</u>	
Firing order	<u>1-3-4-2</u>	<u>1-3-4-2</u>
Intake manifold material & mass [kg (weight, lbs.)]		
Exhaust manifold material & mass [kg (weight, lbs.)]		
Recommended fuel (leaded, unleaded, diesel)	<u>Unleaded</u>	<u>Unleaded</u>
Fuel antiknock index (R + M) / 2	<u>87</u>	<u>87</u>
Total dressed engine mass (wt) dry**	<u>-</u>	<u>-</u>

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	<u>Cast aluminum alloy</u>	<u>Cast aluminum alloy</u>
--	----------------------------	----------------------------

Engine - Camshaft

Location	<u>On cylinder head</u>	<u>on cylinder head</u>
Material & mass kg (weight, lbs.)	<u>Gray cast iron</u>	<u>Gray cast iron</u>
Drive type	<u>Chain / belt</u> <u>Width / pitch</u>	<u>Belt</u> <u>-</u>

* 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 Description/Carb.
Engine Code

EGI Turbo

EGI

Engine - Valve System

Hydraulic lifters (std., opt., NA)		Mechanical-Std.	Mechanical-Std.
Valves	Number intake / exhaust	-	-
	Head O.D. intake / exhaust	-	-

Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))	Carbon steel	Carbon steel
---------------------------------------	--------------	--------------

Engine - Crankshaft

Material & mass (kg., (weight, lbs.))	Carbon steel	Carbon steel
End thrust taken by bearing (no.)	-	-
Number of main bearings	-	-
Seal (material, one, two piece design, etc.)	Front	-
	Rear	-

Engine - Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	3.0 - 4.0 kg/cm ² at 3000	3.0 - 4.0 kg/cm ² at 3000 rpm
Type oil intake (floating, stationary)	Stationary	Stationary
Oil filter system (full flow, part, other)	Full flow	Full flow
Capacity of oil case, less filter-refill-L. (qt.)	-	-

Engine - Diesel Information

N.A.

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	
Super charger - manufacturer	
Charge cooler	

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Engine Description/Carb.
Engine Code

EGI Turbo

EGI

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard	Standard
Coolant fill location (rad., bottle)		Rad	Rad
Radiator cap relief valve pressure (kPa (psi))		0.9	0.9
Circulation thermostat	Type (choke, bypass)	By-pass	By-pass
	Starts to open at °C (°F)	88°C	88°C
Water pump	Type (centrifugal, other)	Centrifugal	Centrifugal
	GPM 1000 pump rpm	160 Lit./Min. at 5500rpm	160 Lit./Min. at 5500rpm
	Number of pumps	1	1
	Drive (V-belt, other)	Timing belt	Timing belt
	Bearing type	-	-
	Impeller material	-	-
	Housing material	-	-
By-pass recirculation (type (inter., ext.))		External	External
Cooling system capacity	With heater—L (qt.)	7.1 Lit.	7.1 Lit.
	With air cond.—L (qt.)	-	-
	Opt. equipment (specify—L (qt.))	N.A.	N.A.
Water jackets full length of cyl. (yes, no)		Yes	Yes
Water all around cylinder (yes, no)		Yes	Yes
Water jackets open at head face (yes, no)		-	-
Radiator core	Std., A/C, HD	Std.	Std.
	Type (cross-flow, etc.)	Vertical flow	Vertical flow
	Construction (fin & tube mechanical, braze, etc.)	Tube & fin	Tube & fin
	Material, mass (kg (wgt. lbs.))	-	-
	Width	648 mm	568 mm
	Height	350 mm	350 mm
	Thickness	32 mm	16 mm
Fins per inch		-	-
Radiator end (tank) material		-	-
Fan	Std., elec., opt.	Std.	Std.
	Number of blades & type (flex, solid, material)	4	4
	Diameter & projected width	300 mm	300 mm
	Ratio (fan to crankshaft rev.)	-	-
	Fan cutout type	-	-
	Drive type (direct, remote)	Motor	Motor
	RPM at idle (elec.)	-	-
	Motor rating (wattage) (elec.)	8 - 11A	8 - 11A
	Motor switch (type & location) (elec.)	Water temp. SW.	Water temp. switch
	Switch point (temp., pressure) (elec.)	97°C	97°C
Fan shroud (material)		Steel	Steel

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Engine Description/Carb.
Engine Code

1.998 Liters (EGI Turbo & EGI)

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	Migr.	-	
	Choke (type)	-	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	-
		Automatic	-
Idle A/F mix.		-	
Fuel injection	Point of injection (no.)	4	
	Constant, pulse, flow	Pulse	
	Control (electronic, mech.)	-	
	System pressure (kPa (psi))	-	
Intake manifold heat control (exhaust or water thermostatic or fixed)			
Air cleaner type	Standard	Element type: Wet	
	Optional	N.A.	
Fuel pump	Type (elec. or mech.)	Electric	
	Location (eng., tank)	Tank	
	Pressure range (kPa (psi))	440 - 590	

Fuel Tank

Capacity (refill L (gallons))		60
Location (describe)		-
Attachment		-
Material & Mass (kg (weight lbs))		-
Filter pipe	Location & material	-
	Connection to tank	-
Fuel line (material)		-
Fuel hose (material)		-
Return line (material)		-
Vapor line (material)		-
Extended range tank	Opt. n.a.	-
	Capacity (L (gallons))	-
	Location & material	-
	Attachment	-
Auxiliary tank	Opt. n.a.	-
	Capacity (L (gallons))	-
	Location & material	-
	Attachment	-
	Selector switch or valve	-
	Separate fill	-

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Car Line Model A 016
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Engine Description/Carb.
Engine Code

EGI Turbo

EGI

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		AI/EGR/O2 S/TWC	
	Air Injection	Pump or pulse	Pulse	Pulse
		Driven by	-	-
		Air distribution (head, manifold, etc.)	Manifold	Manifold
		Point of entry	Exhaust manifold & Pipe	Exhaust manifold & pipe
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow	Controlled flow
		Exhaust source	Exhaust manifold	Exhaust manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake manifold	Intake manifold
	Catalytic Converter	Type	3 way	3 way
		Number of	2	1
		Location(s)	Behind of exhaust manifold & under floor	
		Volume (L (in ³))	1.12 + 0.79 x 2	0.79 x 2
Crankcase Emission Control	Substrate type		Monolith	Monolith
	Type (ventilates to atmosphere, induction system, other)		Closed type	Closed type
	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum	Manifold vacuum
	Discharges (to intake manifold, other)		Surge tank	Surge tank
Evaporative Emission Control	Air inlet (breather cap, other)		Air cleaner	Air cleaner
	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	Canister
		Carburetor	-	-
Electronic system	Vapor storage provision		Canister	Canister
	Closed loop (yes/no)		Yes	Yes
	Open loop (yes/no)		No	No

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single	Semi-dual
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass (kg (weight lbs))		One / Expansion	One / Expansion
Resonator no. & type		One / Resonance	One / Resonance
Exhaust pipe	Branch o.d., wall thickness		-
	Main o.d., wall thickness		50.8 x 2.0 mm
	Material & Mass (kg (weight lbs))		45 x 2.0 mm
Intermediate pipe	o.d. & wall thickness		48.6/50.8 x 1.6 mm
	Material & Mass (kg (weight lbs))		45 x 1.6 mm
Tail pipe	o.d. & wall thickness		Al coated steel
	Material & Mass (kg (weight lbs))		35 x 1.6 x 2 mm
		Al coated steel	42.7 x 1.2 x 1 mm
		Al coated steel	Al coated steel

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Engine Description/Carb.
Engine Code

(EGI)

(Turbo)

Transmissions/Transaxle

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

Manual Transmission/Transaxle

Number of forward speeds		5 M/T	5 M/T
Transmission ratios	In first	3.307	3.307
	In second	1.833	1.833
	In third	1.233	1.233
	In fourth	0.914	0.914
	In fifth	0.717	0.755
	In overdrive	-	-
	In reverse	3.166	3.166
Synchronous meshing (specify gears)		All forward gears	All forward gears
Shift lever location		Floor	Floor
Lubricant	Capacity [L (pt.)]	3.35	3.35
	Type recommended	A.P.I. GL-4 or GL-5	A.P.I. GL-4 or GL-5
	SAE viscosity number	Summer	Above 0°F SAE90 or SAE80W-90
		Winter	Below 0°F ATF M2C33-F
		Extreme cold	-

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		Daikin Mfg.	Daikin Mfg.
Assist (yes, no percent)		-	-
Type pressure plate springs		Dry single plate (Diaphragm)	Dry single plate (Diaphragm)
Total spring load [N (lb.)]		392	530
No. of clutch driven discs		1	1
Clutch facing	Material	Woven	Semi mold
	Manufacturer	Hitachi Chemical	Asahi Sekimen
	Part number	FE62 16 460	FE55 16 460
	Rivets/plate	18	18
	Rivet size	-	-
	Outside & inside dia.	225 x 150 mm	225 x 150 mm
	Total eff. area [cm ² (in. ²)]	220	220
	Thickness	4.1 mm	4.1 mm
	Engagement cushion method	Cushion spring	Cushion spring
Release bearing	Type & method of lubrication	S. row ball bearing	S. row bearing
Torsional damping	Method: springs, friction material	Coil spring	Coil spring

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Engine Description/Carb.
Engine Code

(EGI)	(Turbo)
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Automatic Transmission/Transaxle

Trade name		F3A (3AT)
Type and special features (describe)		Oil pressure control
Selector	Location	Floor change
	Ltr./No. designation	-
Gear ratios	R	R : 2.400
	D	1st: 2.841
	L ₃	2nd: 1.541
	L ₂	3rd: 1.000
	L ₁	-
Max. upshift speed - drive range [km/h (mph)]		(1-2): 59, (2-3): 106
Max. kickdown speed - drive range [km/h (mph)]		(2-1): 46, (3-2): 95
Min. overdrive speed [km/h (mph)]		-
Torque converter	Number of elements	3
	Max. ratio at stall	2.10 : 1
	Type of cooling (air, liquid)	Water
	Nominal diameter	236 mm
Lubricant	Capacity (refill L (pt.))	6.2
	Type Recommended	ATF DEXRON II
Oil cooler (std., opt., NA, internal, external, air, liquid)		

Axle or Front Wheel Drive Unit

Type (front, rear)		Front	Front
Description		Helical gear	Helical gear
Limited slip differential (type)		None	None
Drive pinion offset		-	-
Drive pinion (type)		-	-
No. of differential pinions		2	2
Pinion / differential adjustment (shim, other)		-	-
Pinion / differential bearing adjustment (shim, other)		-	-
Driving wheel bearing (type)		-	-
Lubricant	Capacity [L (pt.)]	3.35	3.35
	Type recommended	API GL-4 or GL-5	API GL-4 or GL-5
	SAE viscosity number	Summer	Above 0°F SAE90 or SAE80W-90
		Winter	Below 0°F ATF M2C33-F
		Extreme cold	

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

Axle ratio (or overall top gear ratio)		4.105	4.105
No. of teeth	Pinion	19	19
	Ring gear or gear	78	78
Ring gear o.d.		202.5	202.5
Transaxle	Transfer gear ratio		
	Final drive ratio		

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Engine Description/Carb.
Engine Code

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Propeller Shaft – Rear Wheel Drive N.A.

Type (straight tube, tube-in-tube,
internal-external damper, etc.)

Outer diam. x length* x wall thick- ness	Manual 3-speed trans.		
	Manual 4-speed trans.		
	Manual 5-speed trans.		
	Overdrive		
	Automatic transmission		
Inter- mediate bearing	Type (plain, anti-friction)		
	Lubrication (fitting, prepack)		
Slip yoke	Type		
	Number of teeth		
	Spline o.d.		
Universal joints	Make and mfg. no.	Front	
		Rear	
	Number used		
	Type (ball and trunnion, cross)		
	Rear attach (u-bolt, clamp, etc.)		
	Bearing	Type (plain, anti-friction)	
Lubrication (fitting, prepack)			
Drive taken through (torque tube, arms or springs)			
Torque taken through (torque tube, arms or springs)			

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

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Engine Description/Carb.
Engine Code

1.998 Liters (EGI Turbo & EGI)

Axle Shafts – Front Wheel Drive

Number used		2	
Type (straight, solid bar, tubular, etc.)	Left	Solid bar	
	Right	Solid bar	
Outer diam. x length* x wall thickness	Manual transmission	Left	355 x 24 mm
		Right	355 x 24 mm
	Automatic transmission	Left	350.3 x 24 mm
		Right	350.3 x 24 mm
	Optional transmission	Left	—
		Right	—
Slip yoke	Type	—	
	Number of teeth	—	
	Spline o.d.	—	
Universal joints	Make and mfg. no.	Inner	
		Outer	
	Number used		
	Type, size, plunge	Inner	
		Outer	
	Attach (u-bolt, clamp, etc.)		
Bearing	Type (plain, anti-friction)		
	Lubrication (fitting, prepack)		
Drive taken through (torque tube, arms or springs)			
Torque taken through (torque tube, arms or springs)			

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

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Body Type And/Or
Engine Displacement

Non-AAS System

*
AAS System

* Auto Adjusting Suspension

Suspension - General

Car leveling	Std. opt./n.a.	Option
	Type (air, hyd., etc.)	Hyd.
	Manual/auto, controlled	N.A.
Provision for brake dip control		Front suspension geometry
Provision for accel. squat control		Rear suspension geometry
Provisions for car jacking		N.A.
Shock absorber (front & rear)	Type	Cylindrical double-acting type
	Make	F: KAYABA R: SHOWA SEISAKUSHO
	Piston diameter	-
	Rod diameter	-

Suspension - Front

Type and description		Independent, strut type
Drive and torque taken through		-
Travel	Full jounce	-
	Full rebound	-
Spring	Type (coil, leaf, other) & material	Coil spring, Chromium alloy steel
	Insulators (type & material)	-
	Size (coil design height & Ld., bar length x dia.)	M/T: 339 x 173 mm A/T: 350 x 173 mm 347 x 172 mm
	Spring rate [N/mm (lb./in.)]	-
	Rate at wheel [N/mm (lb./in.)]	-
Stabilizer	Type (link, linkless, frameless)	Torsion bar type
	Material & bar diameter	Chromium alloy steel, $\phi 20$

Suspension - Rear

Type and description		Independent, strut type
Drive and torque taken through		-
Travel	Full jounce	-
	Full rebound	-
Spring	Type (coil, leaf, other) & material	Coil spring, Chromium alloy steel
	Size (length x width, coil design height & Ld., bar length & dia.)	341 x 148 mm 308 x 150 mm
	Spring rate [N/mm (lb./in.)]	-
	Rate at wheel [N/mm (lb./in.)]	-
	Insulators (type & material)	-
	# leaf	No. of leaves
		Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	Torsion bar type
	Material & bar diameter	Chromium alloy steel, $\phi 14$
Track bar (type)		-

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Body Type And/Or
Engine Displacement

Disc - Drum

Disc - Drum

Brakes - Service

Description				
Brake type (std., opt., n.a.)	Front (disc or drum)		Disc	Disc
	Rear (disc or drum)		Drum	Disc
Self-adjusting (std., opt., n.a.)			Std	Std
Special valving	Type (proportion, delay, metering, other)		Proportioning valve	Proportioning valve
Power brake (std., opt., n.a.)			Std	Std
Booster type (remote, integral, vac., hyd., etc.)			Vacuum	Vacuum
Vacuum source (inline, pump, etc.)			-	-
Vacuum reservoir (volume in. ³)			Intake manifold	Intake manifold
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			-	-
Anti-skid device type (std., opt., n.a.) (F/R)			N.A	N.A.
Effective area [cm ² (in. ²)]*			F:292	F:292 R:120
Gross lining area [cm ² (in. ²)]**(F/R)			F:292	F:292 R:120
Swept area [cm ² (in. ²)]*** (F/R)			F: -	F: - R:930
Rotor	Outerworking diameter	F/R	F:202mm	F:202 R:254mm
	Inner working diameter	F/R		R:178mm
	Thickness	F/R	F:14mm	F:14 R:10
	Material & type (vented/solid)	F/R	F:FCHI/Ventilated	F:FCHI(Venti) R:FCHI(Solid)
Drum	Diameter & width	F/R	R:200mm	N.A.
	Type and material	F/R	Power assist	N.A.
Wheel cylinder bore			F:53.9 R:19.5 mm	F:53.9 R:34.93 mm
Master cylinder	Bore/stroke	F/R	F:22.22 R:15 mm	F:22.22 R15 mm
Pedal arc ratio			4.5	4.5
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))			-	-
Lining clearance		F/R	F:0.1 R:0.15 mm	F:0.1 R:0.15 mm
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Bonded	Bonded
		Rivet size	-	-
		Manufacturer	Japan Brake	Japan Brake
		Lining code*****	-	-
		Material	Resin molded	Resin molded
		**** Primary or out-board	45x107x10 mm	45x107x10 mm
		Size Secondary or in-board	45x107x10	45x107x10
		Shoe thickness (no lining)	10.0 mm	10.0 mm
	Rear wheel	Bonded or riveted (rivets/seg.)	Bonded	Bonded
		Manufacturer	Japan Brake	Japan Brake
		Lining Code*****	-	-
		Material	Resin molded	Resin molded
		**** Primary or out-board	25x192x5 mm	25x192x5 mm
		Size Secondary or in-board	25x192x5	25x192x5
		Shoe thickness (no lining)	5.0 mm	5.0 mm

*Excludes rivet holes, grooves, chamfers, etc.

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

***Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
(Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

****Size for drum brakes includes length x width x thickness.

*****Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 626

Model Year 1986 Issued Dec./12 Revised (*)

Body Type And/Or
Engine Displacement

1.998 Liters (EGI Turbo, EGI)

Tires And Wheels (Standard)

Tires	Size (load range, ply)		165 SR14
	Type (bias, radial, etc.)		Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	200 mm
		Rear (kPa (psi))	180 mm
	Rev./mile—at 70 km/h (45 mph)		-
Wheels	Type & material		Disc: Steel
	Rim (size & flange type)		5 J x 14
	Wheel offset		45 mm
	Attachment	Type (bolt or stud)	Bolt
		Circle diameter	114.3 mm
		Number & size	4, M12 x 0.5
Spare	Tire and wheel (same, if other describe)		T135/70 D15
	Storage position & location (describe)		Trunk room

Tires And Wheels (Optional)

Size (load range, ply)		185/70 SR14
Type (bias, radial, etc.)		Radial
Wheel (type & material)		Disc: Steel
Rim (size, flange type and offset)		5 1/2 JJ x 14
Size (load range, ply)		185/70 HR14
Type (bias, radial, etc.)		Radial
Wheel (type & material)		Disc: Steel
Rim (size, flange type and offset)		5 1/2 JJ x 14
Size (load range, ply)		P195/60 R15
Type (bias, radial, etc.)		Radial
Wheel (type & material)		Disc: Steel
Rim (size, flange type and offset)		6 JJ x 15
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		Manual
Location of control		Over floor tunnel
Operates on		Rear wheel
If separate from service brakes	Type (internal or external)	N.A.
	Drum diameter	-
	Lining size (length x width x thickness)	-

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 626
Model Year 1986 Issued Dec./85 Revised (•) _____

Body Type And/Or
Engine Displacement

1.998 Liters (EGI Turbo, EGI)

Steering

Manual (std., opt., n.a.)		Std.					
Power (std., opt., n.a.)		Opt.					
Adjustable steering wheel (tilt, swing, other)	Type and description	-					
	(Std., opt., n.a.)	-					
Wheel diameter (W9) SAE J1100	Manual	380 mm					
	Power	380 mm					
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	-				
		Curb to curb (l. & r.)	-				
	Inside rear	Wall to wall (l. & r.)	-				
		Curb to curb (l. & r.)	-				
Scrub Radius*		-					
Manual	Gear	Type	Rack & pinion				
		Make	JIDOSHAKIKI				
		<table border="1"> <tr> <td>Ratios</td> <td>Gear</td> </tr> <tr> <td></td> <td>Overall</td> </tr> </table>	Ratios	Gear		Overall	-
	Ratios	Gear					
	Overall						
No. wheel turns (stop to stop)	4.4						
Power	Type (coaxial, linkage, etc.)	Integral type					
	Make	JIDOSHAKIKI					
	Gear	Type	Rack & pinion				
		<table border="1"> <tr> <td>Ratios</td> <td>Gear</td> </tr> <tr> <td></td> <td>Overall</td> </tr> </table>	Ratios	Gear		Overall	-
		Ratios	Gear				
		Overall					
Pump (drive)	-						
No. wheel turns (stop to stop)	3						
Linkage	Type	-					
	Location (front or rear of wheels, other)	-					
	Tie rods (one or two)	-					
Steering axis	Inclination at camber (deg.)		-				
	Bearings (type)	Upper	-				
		Lower	-				
		Thrust	-				
Steering spindle & joint type		-					
Wheel spindle	Diameter	Inner bearing	-				
		Outer bearing	-				
	Thread (size)		-				
	Bearing (type)		-				

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 626

Model Year 1986 Issued Dec./85 Revised (•) _____

Body Type And/Or
Engine Displacement

1.998 Liters (EGI Turbo, EGI)

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	-
		Camber (deg.)	-
		Toe-in (outside track-mm (in.))	-
	Service reset*	Caster	$1^{\circ} \pm 45'$
		Camber	$0^{\circ} \pm 30'$
		Toe-in	3 ± 3 mm
	Periodic M.V. inspection	Caster	-
		Camber	-
		Toe-in	-
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-
		Toe-in (outside track-mm (in.))	-
	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	Magnetic torque drive
	Trip odometer (std., opt., n.a.)	Std.
EGR maintenance indicator		-
Charge indicator	Type	Lamp
	Warning device	Alternator warning light
Temperature indicator	Type	Gauge
	Warning device	Water temp. gauge
Oil pressure indicator	Type	Lamp
	Warning device	Engine oil pressure warning light
Fuel indicator	Type	gauge
	Warning device	Opt. (Warning light)
Wind-shield wiper	Type (standard)	Electric, 2 speed with intermit.
	Type (optional)	N.A.
	Blade length	-
	Swept area (cm ² (in. ²))	-
Wind-shield washer	Type (standard)	Electric pump
	Type (optional)	N.A.
	Fluid level indicator	-
Horn	Type	Electric
	Number used	2
Other		

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 626
Model Year 1986 Issued Dec./85 Revised (e) _____

Engine Description/Carb.
Engine Code

EGI

EGI Turb

Electrical - Supply System

Battery	Make				
	Model, std., (opt.)	50D20L	55D23L	50D20L	55D23L
	Voltage	12 V	12 V	12 V	12 V
	Amps at 0°F cold crank	—			
	Minutes-reserve capacity	—			
	Amp/hrs. - 20 hr. rate	50 Ah	60 Ah	50 Ah	60 Ah
	Location	Left front engine comp.			
Generator or alternator	Type and rating	12V-65A		12V-65A	
	Ratio (alt. crank/rev.)	1 : 2.36		1 : 2.36	
	Optional (type & rating)	—			
Regulator	Type	Built-in IC		Built-in IC	

Electrical - Starting System

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

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)		Std.			
	Other (specify)		-			
Coil	Make		HANSHIN	DIAMONT	HANSHIN	DIAMOND
	Model		FTC-8	E-019-03	FTC-8	E-019-03
	Current	Engine stopped - A	-		-	
		Engine idling - A	-		-	
Spark plug	Make		NGK	NIPPON DENSO	NGK	NIPPON DENSO
	Model		BPR5ES, 6ES	W16EXR-U, W20	BPR6ES	W20EXR-U
	Thread (mm)		-	-	-	-
	Tightening torque (N-m (lb. ft))		15-23 N-m		15-23 N-m	
	Gap		0.8 ± 0.05		0.8 ± 0.05	
	Number per cylinder		-			
Distributor	Make		MITSUBISHI		MITSUBISHI	
	Model		T4T66072		T4T65671	

Electrical - Suppression

Locations & type	High tension cord, Spark plug
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MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 626
Model Year 1986 Issued Dec./85 Revised (e) _____

Body Type

Coupe, Sedan & Hatchback

Body

Structure	-
Bumper system front - rear	-
Anti-corrosion treatment	-

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		-
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.)	Mechanical
Hatch-back lid	Type (counterbalance, other)	-
	Internal release control (elec., mech., n.a.)	Mechanical
Vent window control (crank, friction, pivot, power)	Front	-
	Rear	-
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Spring
	Rear	Formed urethane, 50/50, Bench
	3rd seat	N.A.
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Spring
	Rear	Formed urethane, 60/40, Bench
	3rd seat	N.A.

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

Car Line Mazda 626
 Model Year 1986 Issued Dec./85 Revised(*) _____

Body Type

Coupe, Sedan & Hatchback

Restraint System

Active restraint system	Standard/optional	Std.
	Type and description	Type 1 & Type 2 seat belt assembly
	Location	Front: Type 2 Seat belt ass'y Rear: Type 1 seat belt ass'y
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, partial-unitized frame)	-
---	---

Glass	SAE Ref. No.	
Windshield glass exposed surface area (cm ² (in. ²))	S1	-
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	-
Backlight glass exposed surface area (cm ² (in. ²))	S3	-
Total glass exposed surface area (cm ² (in. ²))	S4	-
Windshield glass (type)		-
Side glass (type)		-
Backlight glass (type)		-

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

Car Line Mazda 626
 Model Year 1986 Issued Dec./85 Revised (e) _____

Body Type

Coupe, Sedan & Hatchback

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

Air conditioning (manual, auto, temp control)		Opt. (Manual)
Clock (digital, analog)		Std. (Digital)
Compass / thermometer		N.A.
Console (floor, overhead)		Opt.
Defroster, elec. backlight		Std.
Electronic	Diagnostic warning (integrated, individual)	-
	Instrument cluster (list instruments)	-
	Keyless entry	-
	Trip/finder (avg. spd., fuel)	-
	Voice alert (list items)	-
	Other	-
Fuel door lock (remote, key, electric)		Std. (Remote)
Lamps	Auto head on / off delay, dimming	Std.
	Cornering	-
	Courtesy (map, reading)	Opt. (Map)
	Door lock, ignition	Opt./Std.
	Engine compartment	N.A.
	Fog	N.A.
	Glove compartment	Std.
	Trunk	Std.
	Other	-
		-
Mirrors	Day/night (auto, man.)	Std. (Manual)
	L.H. (remote, power, heated)	Std. / Opt. (Remote)
	R. H. (convex, remote, power, heated)	Opt. (Remote)
	Visor vanity (RH / LH, illuminated)	Std. (RH)
Parking brake-auto release (warning light)		-
Power equipment	Door locks / deck lid - specify	Opt. (Door lock)
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	6-way adjustable Opt. (Heated/driver) Std. (Reclining) Opt. (Lumber/Manual) Opt. (Memory)
	Side windows	Opt.
	Vent windows	-
	Rear window	-
		-
Radio systems	Antenna (location, whip, windshield, power)	Std.
	AM, FM, stereo, tape, CB	Opt. (FM/AM, Deck)
	Speaker (number, location) Premium sound	Opt. (2)
Roof open air/fixed (flip-up, sliding, "T")		Opt. (Sliding)
Speed control device		Opt.
Speed warning device (light, buzzer, etc.)		-
Tachometer (rpm)		Std.
Theft protection-type		Std. (Steering lock)
		Opt. (Theft deterrent system)

MVMA Specifications Form

Passenger Car

Car Line Mazda 626

Model Year 1986

Issued Dec. /85

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 J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	Sedan	Coupe & Hatchback
Width			
Tread (front)	W101	1430 mm	1430 mm
Tread (rear)	W102	1425 mm	1425 mm
Vehicle width	W103	1690 mm	1690 mm
Body width at 5g RP (front)	W117		
Vehicle width (front doors open)	W120		
Vehicle width (rear doors open)	W121		
Front fender overall width	W106		
Rear fender overall width	W107		
Tumble-home (deg.)	W122		

Length

Wheelbase	L101	2510 mm	2510 mm
Vehicle length	L103	4515 mm	4515 mm
Overhang (front)	L104		
Overhang (rear)	L105		
Upper structure length	L123		
Rear wheel C.L. "X" coordinate	L127		
Cowl point "X" coordinate	L125		
Front end length at centerline	L126		
Rear end length at centerline	L129		

Height*

Passenger distribution (front/rear)	P01.2.3		
Trunk/cargo load			
Vehicle height	H101	1410 mm	1365 mm
Cowl point to ground	H114		
Deck point to ground	H138		
Rocker panel-front to ground	H112		
Bottom of door closed-front to grd.	H133		
Rocker panel-rear to ground	H111		
Bottom of door closed-rear to grd.	H135		
Windshield slope angle	H122		
Backlight slope angle	H121		

Ground Clearance*

Front bumper to ground	H102		
Rear bumper to ground	H104		
Bumper to ground (front at curb mass (wt. I))	H103		
Bumper to ground (rear at curb mass (wt. I))	H105		
Angle of approach (degrees)	H106		
Angle of departure (degrees)	H107		
Ramp breakover angle (degrees)	H147		
Axle differential to ground (front / rear)	H153		
Min. running ground clearance	H156		
Location of min. run. grd. clear.			

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

MVMA Specifications Form

Passenger Car

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

See Key Sheets for definitions

Car Line Mazda 626

Model Year 1986 Issued Dec./85 Revised (*)

Body Type

SAE
Ref.
No.

4 Door Sedan. 2 Door Coupe 5 Door Hatchback

Front Compartment

Sg RP front, "X" coordinate	L31	mm (with S/R)		
Effective head room	H61	976 (943)	954 (922)	954 (922)
Max. eff. leg room (accelerator)	L34	1052	1064	1064
SgRP to heel point	H30			
SgRP to heel point	L53			
Back angle	L40			
Hip angle	L42			
Knee angle	L44			
Foot angle	L46			
Design H-point front travel	L17			
Normal driving & riding seat track trvl.	L23			
Shoulder room	W3	1395	1395	1395
Hip room	W5	1425	1425	1425
Upper body opening to ground	H50			
Steering wheel maximum diameter	W9			
Steering wheel angle	H18			
Accel. heel pt. to steer. whl. cnt	L11			
Accel. heel pt. to steer. whl. cnt	H17			
Steering wheel to C/L of thigh	H13			
Steering wheel torso clearance	L7			
Headlining to roof panel (front)	H37			
Undepressed floor covering thickness	H67			

Rear Compartment

Sg RP Point couple distance	L50			
Effective head room	H63	960 (920)	935 (895)	932 (905)
Min. effective leg room	L51	925	845	845
Sg RP (second to heel)	H31			
Knee clearance	L48			
Compartment room	L3			
Shoulder room	W4	1390	1334	1390
Hip room	W6	1200	1250	1254
Upper body opening to ground	H51			
Back angle	L41			
Hip angle	L43			
Knee angle	L45			
Foot angle	L47			
Headlining to roof panel (second)	H38			
Depressed floor covering thickness	H73			

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	388	377	594 Liters
Liftover height	H195			

Interior Volumes (EPA Classification)

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

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Mazda 626
Model Year 1986 Issued Dec. 1985 Revised (*) _____

Body Type

SAE
Ref.
No.

4 Door Sedan 2 Door Coupe 5 Door Hatchback

Station Wagon - Third Seat

N. A.

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

N. A.

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

Cargo length at front seatback height	L208	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	1034 1064 1064 mm
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	500 mm
Cargo volume index (m ³ (ft. ³))	V3	
Hidden cargo volume (m ³ (ft. ³))	V4	
Cargo volume index-rear of 2-seat	V11	

Aerodynamics*

Wheel to ground, front	
Wheel to ground, rear	
Frontal area (m ² (ft. ²))	
Drag coefficient (Cd)	

* EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line Mazda 626
 Model Year 1986 Issued Dec./85 Revised (•) _____

Body Type

4 Door Sedan, 2 Door Coupe & 5 Door Hatchback

Vehicle Fiducial Marks

Fiducial Mark Number	Define Coordinate Location
Front	
Rear	
Fiducial Mark Number	
Front	W21 LS4 H81 H181 H183
Rear	W22 LS5 H82 H182 H184

* Reference - SAE Recommended Practice, J162, Motor Vehicle Fiducial Marks.
 All linear dimensions are in millimeters (inches).

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

Car Line Mazda 626
 Model Year 1986 Issued Dec./85 Revised (*) _____

Body Type

Sedan

Coupe & Hatchback

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	615 - 657 mm	615 - 657 mm
		Lowest	-	
	Taillamp (SAE - H128)	Highest**	661 - 706 mm	720 - 722 mm
		Lowest	-	
	Sidemarker	Front	497 - 538 mm	497 - 538 mm
		Rear	667 - 712 mm	746 - 749 mm
Distance from C.L. of car to center of bulb	Headlamp	Inside	-	
		Outside**	-	
	Taillamp	Inside	-	
		Outside**	-	
	Directional	Front	-	
		Rear	-	
Halogen headlamp (std., opt., n.a.)	Lo beam		-	
	Hi beam		-	
	Replaceable bulb		-	
	Shape		-	
Headlamp other than above	Lo beam		-	
	Hi beam		-	
	Replaceable		-	
	Shape		-	
	Type		Type 2B1	

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

METRIC (U.S. Customary)

Model Year 1986 Issued Dec./85 Revised (•) _____

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

METRIC (U.S. Customary)

Model Year 1986

Issued Dec. 785

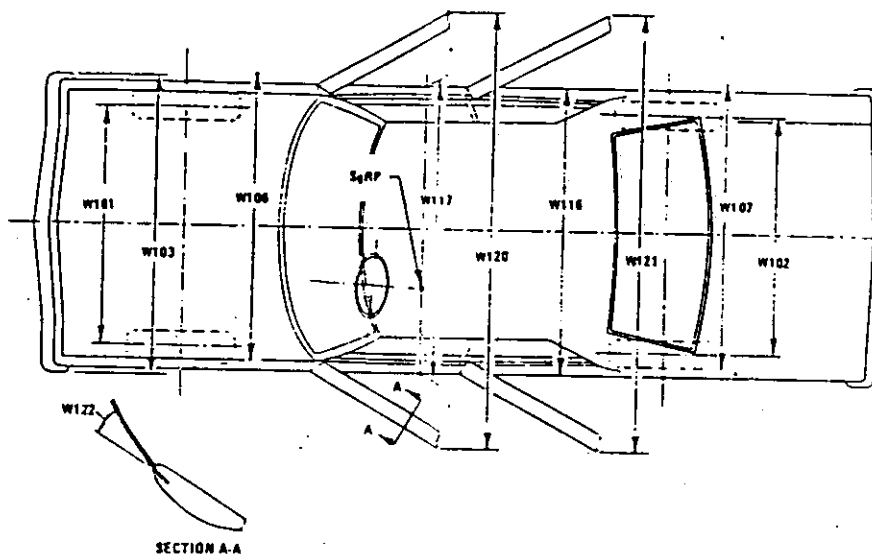
Revised (•)

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

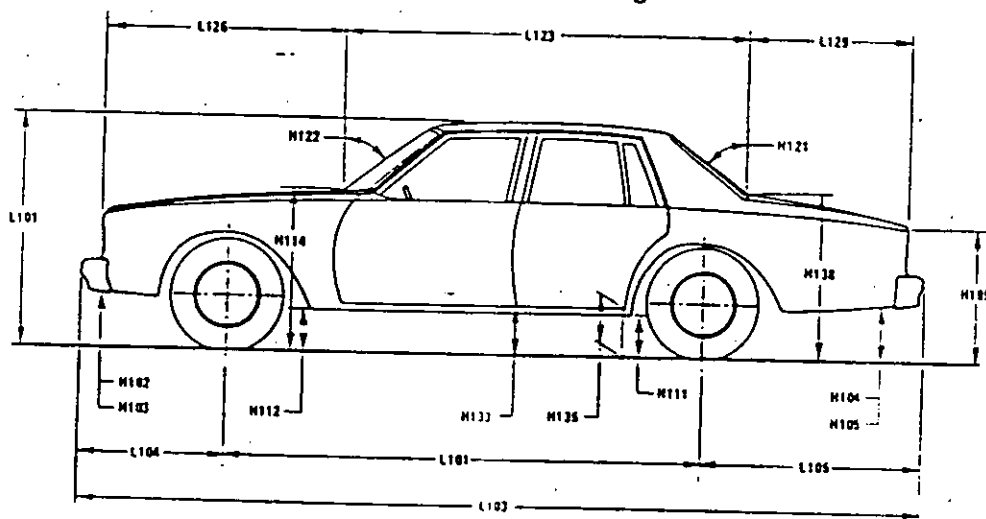
MVMA Specifications Form
Passenger Car
 METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

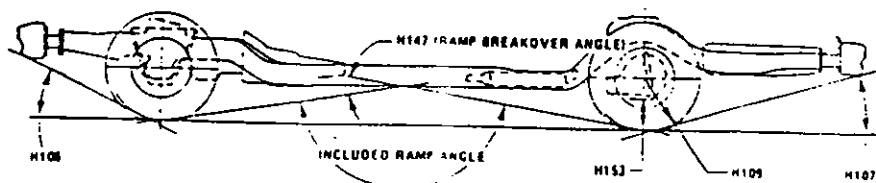
Exterior Width



Exterior Length & Height

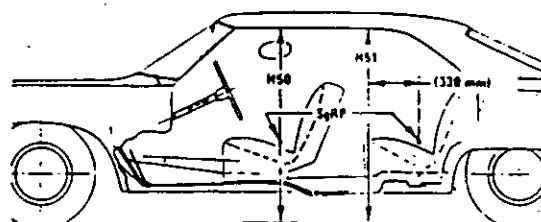
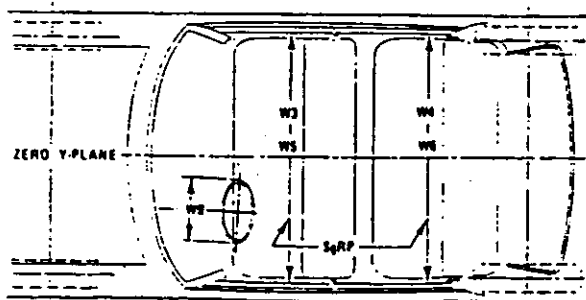
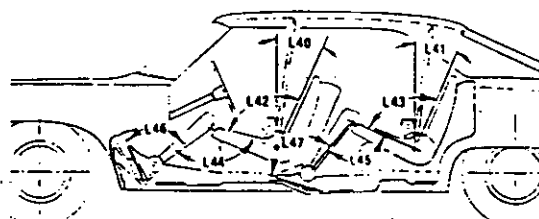
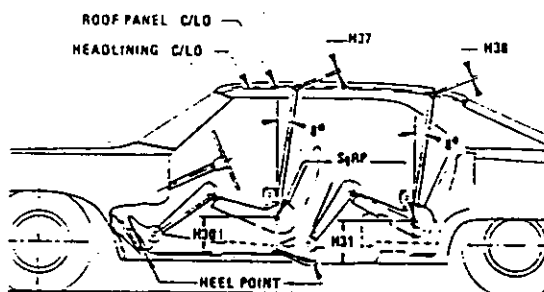
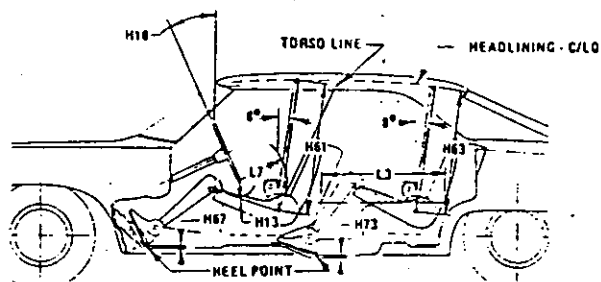
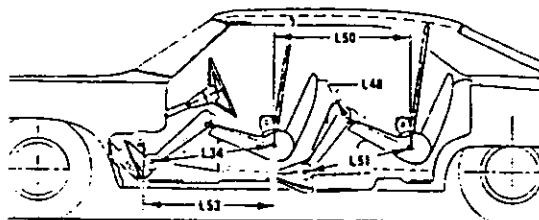


Exterior Ground Clearance



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 Passenger Car
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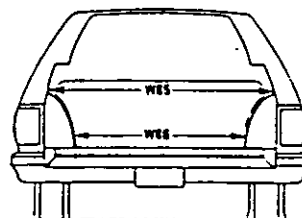
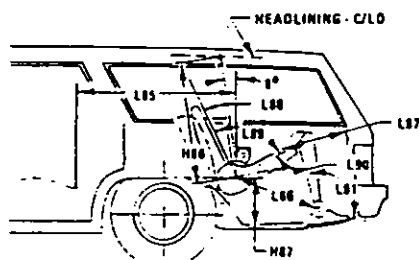
Interior Car And Body Dimensions – Key Sheet



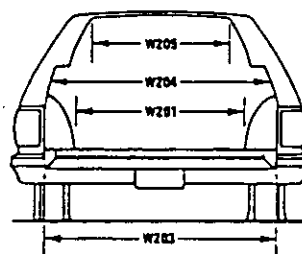
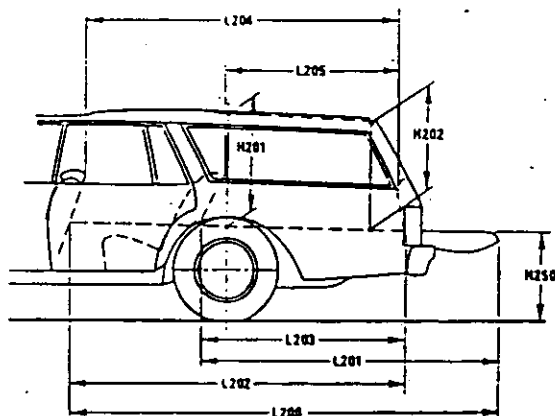
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Interior Car And Body Dimensions – Key Sheet

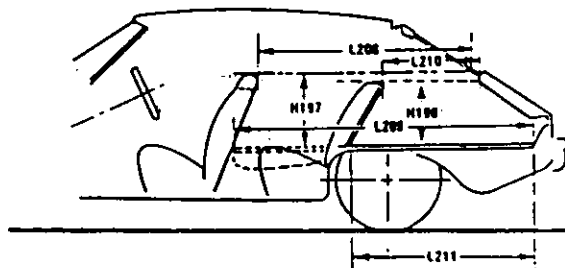
Third Seat



Cargo Space



Station Wagon



Hatchback

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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, "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.

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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.

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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 seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254mm (10.0 in.).
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND. Measured in the same manner as W5.
- H31 SgRP-SECOND TO HEEL. The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51 UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in) forward of the SgRP-second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in).
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.
- PD2 PASSENGER DISTRIBUTION-SECOND.

Luggage Compartment Dimensions

- V1 USABLE LUGGAGE CAPACITY-Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-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 seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH-OPEN-SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L202 CARGO LENGTH-CLOSED-FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH-CLOSED-SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT-FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH-WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.

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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:

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

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