

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1991

Manufacturer Mazda Motor Corporaition	Vehicle Line Mazda MX-6	
Mailing Address 3-1, Shinchì, Fuchu-cho Akigun, Hiroshima, Japan	Issued Oct. / '90	Revised

Direct questions concerning these specifications to the manufacturer listed above.

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



Motor Vehicle Manufacturers Association
of the United States, Inc.

Forms Provided by Technical Affairs Division

MVMA Specifications

METRIC (U.S. Customary)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda MX-6
 Model Year '91 Issued Oct./'90 Revised (-) _____

Vehicle Origin

Design & development (company)	Mazda Motor Corporation
Where built (country)	U.S.A.
Authorized U.S. sales marketing representative	Mazda Motor of America Inc.

Vehicle Models

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
Mazda MX-6 (FWD)		2-door Coupe	2/3	100 lbs.

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

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

Vehicle Line Mazda MX-6
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			A	B	C	D
ENGINE	Engine Code		F2E	←	F2T	←
	Displacement Liters (in ³)		2.184 L	←	←	←
	Induction system (FI, Carb. etc.)		EGI	←	EGI Turbo	←
	Compression ratio		8.6	←	7.8	←
	SAE Net at RPM	Power kW (bhp)	110 HP / 4700 rpm	←	145 HP / 4300 rpm	←
		Torque N · m (lb. ft.)	129 lb-ft/3000rpm	←	190 lb-ft/3500rpm	←
	Exhaust single, dual		Single	←	←	←
TRANS	Transmission/ Transaxle		5MT	4AT	5MT	4AT
	Axle Ratio (std. first)		3.307	2.800	3.250	2.800

[illegible]

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Engine Description
 Engine Code

F2 EGI & Turbo

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	Gasoline, 4-cycle In-line, 4-cylinders, 2184 cc OHC	
Manufacturer	Mazda	
No. of cylinders	4-cylinders	
Bore	86.0	
Stroke	94.0	
Bore spacing (C/L to C/L)	96 - 98 - 96 mm	
Cylinder block material & mass kg (lbs.) (machined)	Gray Cast iron	
Cylinder block deck height	241.5 mm	
Cylinder block length	416 mm	
Deck clearance (minimum) (above or below block)	-	
Cylinder head material & mass kg (lbs.)	Cast aluminum alloy	
Cylinder head volume (cm³)	-	
Cylinder liner material	-	
Head gasket thickness (compressed)	1.20	
Minimum combustion chamber total volume (cm³)	-	
Cyl. no. system (front to rear)*	L Bank R Bank	
Firing order	1 - 3 - 4 - 2	
Intake manifold material & mass (kg (lbs.))**	Cast aluminum alloy	
Exhaust manifold material & mass (kg (lbs.))**	Cast iron	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) + 2	87	
Engine mounts	Quantity	-
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	-
	Added isolation (sub-frame, crossmember, etc.)	-
Total dressed engine mass (wt) cry***	-	

Engine - Pistons

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

Engine - Camshaft

Location		Over head
Material & mass kg (weight, lbs.)		Gray cast iron
Drive type	Chain / belt	Belt- driven
	Width / pitch	

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

** Finished state.

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

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Engine - Valve System

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

Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]*	Carbon steel
Length (axes < to <) mm	158.5

Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]*	Ductile cast iron
End thrust taken by bearing (no.)	0.08 0.282
Length & number of main bearings	25, 26.4, 28, 26.4, 26.4
Seal (material, one, two piece design, etc.)	Front
	Rear

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	147-245 kPa (1000rpm), 294-392 kPa (3000rpm)
Type oil intake (floating, stationary)	(Trochoid gear) Stationary
Oil filter system (full flow, part, other)	full flow (Paper element)
Capacity of oil case, less filter-refill-L (qt.)	4.6 L

Engine - Diesel Information

Not applicable

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	IHI
Super charger - manufacturer	NA
Intercooler	With

* Finished State

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F2 EGI

F2 Turbo

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Forced circ. (Std.)	←
Coolant fill location (rad., bottle)		Rad.	←
Radiator cap relief valve pressure (kPa (psi))		74 - 103 kPa	←
Circulation thermostat	Type (choke, bypass)	BYPASS	←
	Starts to open at °C (°F)	86.3 - 39.5 °C	←
Water pump	Type (centrifugal, other)	Centrifugal	←
	GPM 1000 pump rpm	-	-
	Number of pumps	1	←
	Drive (V-belt, other)	Timing belt	←
	Bearing type	Ball & Ball bearing	←
	Impeller material	-	-
	Housing material	-	-
By-pass recirculation (type (inter., ext.))		EXT.	←
Cooling system capacity	With heater - L (qt.)	7.5 L	←
	With air conditioner - L (qt.)	-	-
	Opt. equipment (specify - L (qt.))	-	-
Water jackets full length of cyl. (yes, no)		Yes	←
Water all around cylinder (yes, no)		No	←
Water jackets open at head face (yes, no)		No	←
Radiator core	Std., A/C, HD	Std.	←
	Type (cross-flow, etc.)	Corrugated fin	←
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube	←
	Material, mass (kg (wgt., lbs.))	-	-
	Width	646 mm	←
	Height	400 mm	←
	Thickness	16 mm	32 mm
	Fins per inch	19.5 mm (M/T), 14.5 mm (A/T)	23.1 mm
Radiator end tank material		-	-
Fan	Std., elec., opt.	Elec.	←
	Number of blades & type (flex, solid, material)	4	←
	Diameter & projected width	4320 (M/T), 4340 (A/T)	←
	Ratio (fan to crankshaft rev.)	-	-
	Fan cutout type	-	-
	Drive type (direct, remote)	Motor drive	←
	RPM at idle (elec.)	-	-
	Motor rating (wattage) (elec.)	80 W (M/T), 120 W (A/T)	80 W (M/T), 160 W (A/T)
	Motor switch (type & location) (elec.)	Thermo-switch	←
	Switch point (temp., pressure) (elec.)	Temp	←
Fan shroud (material)		PP with talc.	←

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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.		Electronic gas injection system
Manufacturer		-
Carburetor no. of barrels		-
Idle A/F mix.		-
Fuel injection	Point of injection (no.)	4
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure (kPa (psi))	-
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	750 rpm (Neutral)
	Automatic	750 rpm (P-range)
Intake manifold heat control (exhaust or water thermostatic or fixed)		-
Air cleaner type		Wet type
Fuel filter (type/location)		-
Fuel pump	Type (elec. or mech.)	Impeller
	Location (eng., tank)	Tank
	Pressure range (kPa (psi))	441-637kPa
	Flow rate at regulated pressure (L (gal)/hr. @ kPa (psi))	80(L/Hr.)Min. @294kPa

Fuel Tank

Capacity (refill L (gallons))		60 L. 57 L (4WS)
Location (describe)		Under floor of rear seat
Attachment		Strap and Bolt
Material & Mass (kg (weight lbs.))		Steel
Filler pipe	Location & material	Left side of rear fender
	Connection to tank	Rubber hose
Fuel line (material)		Steel pipe & Rubber hose
Fuel hose (material)		Rubber
Return line (material)		Steel pipe & Rubber hose
Vapor line (material)		Steel pipe & Rubber hose
Extended range tank	Opt., n.a.	NA
	Capacity [L (gallons)]	-
	Location & material	-
	Attachment	-
Auxiliary tank	Opt., n.a.	NA
	Capacity [L (gallons)]	-
	Location & material	-
	Attachment	-
	Selector switch or valve	-
	Separate fill	-

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Engine Description
Engine Code

F2 EGI

F2 Turbo

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		-	-
	Air Injection	Pump or pulse	-	-
		Driven by	-	-
		Air distribution (head, manifold, etc.)	-	-
		Point of entry	-	-
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	-	-
		Exhaust source Point of exhaust injection (spacer, carburetor, manifold, other)	-	-
	Catalytic Converter	Type	3-way	←
		Number of	1	←
		Location(s)	Under floor	←
		Volume [L (in³)]	2.1 L	2.3 L
		Substrate type	Monolith	←
		Noble metal type	Pt/Rh = 5/1	←
		Noble metal concentration (g/cm³)	0.0016	←
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		-	-
	Energy source (manifold vacuum, carburetor, other)		-	-
	Discharges (to intake manifold, other)		-	-
	Air inlet (breather cap, other)		-	-
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	-	-
		Carburetor	-	-
	Vapor storage provision		-	-
Electronic system	Closed loop (yes/no)		-	-
	Open loop (yes/no)		-	-

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		SEMI - DUAL	SINGLE
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		1, REVERSE FLOW	←
Resonator no. & type		1	←
Exhaust pipe	Branch o.d., wall thickness	38.4	-
	Main o.d., wall thickness	48.6 x 2	50.8 x 2
	Material & Mass [kg (weight lbs)]	STAINLESS	←
Intermediate pipe	o.d. & wall thickness	48.6 x 1.6	50.8 x 1.6
	Material & Mass [kg (weight lbs)]	AL. COATED STEEL	←
Tail pipe	o.d. & wall thickness	45 x 1.2	50.8 x 1.2
	Material & Mass [kg (weight lbs)]	STAINLESS	←

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F2 Turbo

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

Manual 3-speed (manufacturer/country)	NA	—
Manual 4-speed (manufacturer/country)	NA	—
Manual 5-speed (manufacturer/country)	Std.	—
Automatic (manufacturer/country)	Std.	—
Automatic overdrive (manufacturer/country)	Std.	—

Manual Transmission/Transaxle

Number of forward speeds		5	—
Gear ratios	1st	3.307	3.250
	2nd	1.833	1.772
	3rd	1.233	1.194
	4th	0.914	0.926
	5th	0.717	0.711
	Reverse	3.166	3.461
Synchronous meshing (specify gears)		—	—
Shift lever location		Floor	—
Trans. case mat'l. & mass kg (lbs)*		—	—
Lubricant	Capacity [L (pt.)]	3.35	3.65
	Type recommended	ATF : M2C33-F or Dexron II	—

Clutch (Manual Transmission)

Clutch manufacturer		DAIKIN	—
Clutch type (dry, wet; single, multiple disc)		Single dry plate	—
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic	—
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	—	—
	Released	—	—
Assist (spring, power/percent, nominal)		—	—
Type pressure plate springs		—	—
Total spring load (nominal, new) N (lbs)		440 kg	560 kg
Clutch facing	Facing mfg. & material coding	Woven	—
	Facing material & construction	—	—
	Rivets per facing	18	16
	Outside x inside dia. (nominal)	225 x 150 mm	240 x 160 mm
	Total eff. area [cm ² (in. ²)]	220 cm ²	251 cm ²
	Thickness (pressure plate side/ly wheel side)	4.1mm/3.5mm	3.5mm/3.5mm
	Rivet depth (pressure plate side/ly wheel side)	—	—
	Engagement cushion method	Cushion spring	—
Release bearing type & method lub.		S. row ball bearing	—
Torsional damping method, springs, hysteresis		Coil spring	—

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

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Engine Description
Engine Code

F2 EGI

F2 Turbo

☒ Automatic Transmission/Transaxle

Trade Name		EC - AT (G4A - EL)	←
Type and special features (describe)		Electronic	←
Gear selector	Location (column, floor, other)	Floor	←
	Ltr./No. designation (e.g. PRND21)	PRNDSL	←
	Shift interlock (yes, no, describe)	Yes	←
Gear ratios	1st	2.800	←
	2nd	1.540	←
	3rd	1.000	←
	4th	0.700	←
	Reverse	2.333	←
Max. upshift speed - drive range (km/h (mph))		(1→2) (2→3) (3→4) 56 , 107 , 168 km/h	(1→2) (2→3) (3→4) 54 , 102 , 168 km/h
Max. kickdown speed - drive range (km/h (mph))		(2→1) (3→2) (4→3) 45 , 98 , 158 km/h	(2→1) (3→2) (4→3) 47 , 96 , 158 km/h
Min. overdrive speed (km/h (mph))			
Torque converter	Number of elements	3-element, 1-stage, 2-phase	←
	Max. ratio at stall	1.8	1.7
	Type of cooling (air, liquid)	Liquid	←
	Nominal diameter	250 mm	←
	Capacity factor "K"	211	204
Lubricant	Capacity (refill L (pt.))	6.8 L	←
	Type recommended	MAZDA ATF M-III	←
Oil cooler (std., opt., N.A., internal, external, air, liquid)		-	Std. external, air
Transmission mass (kg (lbs)) & case material **		-	-

☒ All Wheel / 4 Wheel Drive

Not applicable

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		-
Transfer case	Manufacturer and model	-
	Type and location	-
Low-range gear ratio		-
System disconnect (describe)		-
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	-
	Torque split (% front/rear)	-

* Input speed = $\frac{\text{torque}}{\text{torque}}$

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

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Engine Description
Engine Code

F2 EGI

F2 Turbo

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

Effective final drive ratio (or overall top gear ratio)			-
Transfer ratio and method (chain, gear, etc.)			-
Front drive unit	Ring gear o.d.		-
	No. of teeth	Pinion	-
		Ring gear	-

⊗ Front Drive Unit

Description (integral to trans., etc.)		Incorporated in transaxle
Limited slip differential (type)		NA
Drive pinion	Type	-
	Offset	-
No. of differential pinions		2
Pinion / differential	Adjustment (shim, etc.)	-
	Bearing adjustment	Shim
Driving wheel bearing (type)		-
Lubricant	Capacity [L (pt.)]	-
	Type recommended	-

⊗ Axle Shafts - Front Wheel Drive

Manufacturer and number used		2	←		
Type (straight, solid bar, tubular, etc.)		Left	Solid bar	←	
		Right	Solid bar	←	
Outer diam. x length* x wall thickness	Manual transaxle	Left	24 x 363	26 x 357.5	
		Right	24 x 363	26 x 357.5	
	Automatic transaxle	Left	24 x 355.5	26 x 348.8	
		Right	24 x 355.5	26 x 348.3	
	Optional transaxle	Left	-	-	
		Right	-	-	
Tip, axle	Type		-	-	
	Number of teeth		-	-	
	Spline o.d.		-	-	
Universal joints	Make and mfg. no.		Inner	-	-
			Outer	-	-
	Number used		-	-	
	Type, size, plunge		Inner	Double offset joint (M/T), Tri-pad joint (A/T)	
			Outer	Ball joint	
	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

F2 EGI	F2 Turbo
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Suspension – General Including Electronic Controls

Car leveling	Standard/optional/not avail.	NA	←
	Manual/automatic control	—	—
	Type (air/hydraulic)	—	—
	Primary/assist spring	—	—
	Rear only/4 wheel leveling	—	—
	Single/dual rate spring	—	—
	Single/dual ride heights	—	—
	Provision for jacking	—	—
Shock absorber damping controls	Standard/option/not avail.	NA	Standard
	Manual/automatic control	—	—
	Number of damping rates	—	3
	Type of actuation (manual/electric motor/air, etc.)	—	Electric motor
	s e n s i t i v e	Lateral acceleration	—
		Deceleration	—
		Acceleration	—
		Road surface	—
Shock absorber (front & rear)	Type	Oil Type	Low-pressure gas sealed
	Make	MONROE, KYB INDUSTRIES INC., KAYABA, TOKIKO, ATSUGI	
	Piston diameter	32 mm, 30.2 mm, 35 mm (4WS)	
	Rod diameter	22 mm, 22 mm, 25 mm (4WS)	

Suspension – Front

Type and description		Independent strut	←
Travel*	Full jounce	85	←
	Full rebound	90	←
Spring	Type (coil, leaf, other) & material	Coil, Spring steel	←
	Insulators (type & material)	—	—
	Size (coil design height & i.d.)	13.1 x 162.4 x 373	14 x 161.5 x 297.5 14.3 x 161.2 x 287.5 (4WS)
	Spring rate [N/mm (lb./in.)]	1.85	3.0, 3.5 (4WS)
	Rate at wheel [N/mm (lb./in.)]	1.69	2.74, 3.19
Stabilizer	Type (link, linkless, frameless)	Torsion bar	←
	Material & bar diameter	ø16 Solid, ø18 Solid, ø17.5 x 2.3t, ø20 x 2.3t	ø22.3 Solid, ø24.2 x 3.0t

Suspension – Rear

Type and description		Independent strut	←
Travel*	Full jounce	90, 75 (4WS)	←
	Full rebound	110	←
Spring	Type (coil, leaf, other) & material	Coil, Spring steel	←
	Size (length x width, coil design height & i.d.)	R; 11.9 x (117.2~161.2) x 323.5 L; 12.2 x (115.5~159.5) x 332	R; 12.9 x (116.2 160.2) x 273 L; 12.9 x (116.2 160.2) x 281.5 R; 12.3 x (116.8 160.8) x 287 L; 12.3 x (116.8 160.8) x 293 (4WS)
	Spring rate [N/mm (lb./in.)]	R; 1.78 L; 1.9	R,L; 2.5, R,L; 2.38 (4WS)
	Rate at wheel [N/mm (lb./in.)]	R; 1.70 L; 1.82	R,L; 2.39, R,L; 2.28 (4WS)
	Insulators (type & material)	Rubber pads	←
	If leaf	No. of leaves	NA
		Shackle (comp. or tens.)	—
Stabilizer	Type (link, linkless, frameless)	Torsion bar	←
	Material & bar diameter	ø16 carbon steel	←
Track bar (type)		—	—

* Define load condition:

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Body Type And/Or
Engine Displacement

F2 EGI		F2 Turbo
Std.	ABS	

Brakes - Service

Description			Four wheel hydraulic actuated system	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc		←
	Rear (disc or drum)	Drum	Disc	←
Valving type (proportion, delay, metering, other)		Proportioning		←
Power brake (std., opt., n.a.)		Std.		←
Booster type (remote, integral, vac., hyd., etc.)		Direct Vacuum		←
Vacuum	Source (inline, pump, etc.)	Surge tank		←
	Reservoir (volume in.³)	-	-	←
	Pump-type (elec. gear driven, belt driven)	-	-	←
Traction control	Operational speed range	-	-	←
	Type engine intervention (electronic, mech.)	-	-	←
Anti-lock device	Front / rear (std., opt., n.a.)		Opt.	←
	Manufacturer	-	SUMITOMO ELECTRIC	←
	Type (electronic, mech.)	-	electronic	←
	Number sensors or circuits	-	4 sensors	←
	Number anti-lock hydraulic circuits	-	3 circuits	←
	Integral or add-on system	-	add-on system	←
	Yaw control (yes, no)	-	No	←
	Hydraulic power source (elec., vac. mtr., pwr. srg.)	-	electronic	←
Effective area [cm²(in.²)]*		F : 192 R : 263	F : 192 R : 116	←
Gross Lining area [cm²(in.²)]**(F/R)		F : 192 R : 263	F : 192 R : 116	←
Swept area [cm²(in.²)]*** (F/R)		F : 1188 R : 431	F : 1188 R : 1010	←
Rotor	Outerworking diameter	F/R	F : 264 R : NA	←
	Inner working diameter	F/R	F : 173 R : NA	←
	Thickness	F/R	F : 24 R : NA	←
	Material & type (vented/solid)	F/R	Cast iron/Ventilated	←
Drum	Diameter & width	F/R	F : NA R : 228.6	←
	Type and material	F/R	Cast iron	←
Wheel cylinder bore			F : 53.97 R : 17.46	←
Master cylinder	Bore/stroke	F/R	22.22 x 15	←
Pedal arc ratio			4.2	←
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			11290 (at 500 mHg)	←
Lining clearance		F/R	F & R : Self-adjusting	←
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Bonded	←
		Rivet size	-	←
		Manufacturer	SUMITOMO ELECTRIC	←
		Lining code*****	-	←
		Material	Resin molded	←
		**** Primary or out-board	116 x 43 x 10	←
		Size Secondary or in-board	116 x 43 x 10	←
		Shoe thickness (no lining)	IN : 6 OUT : 5	←
	Rear wheel	Bonded or riveted (rivets/seg.)	Bonded	←
		Manufacturer	Nishinbo	←
		Lining code*****	-	←
		Material	Resin molded	←
		**** Primary or out-board	217 x 30 x 4.5	←
		Size Secondary or in-board	217 x 30 x 4.5	←
		Shoe thickness (no lining)	1.6	←
			5.0	←

* 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 for formulation designation and coefficient of friction classification.

MVMA Specifications

METRIC (U.S. Customary)

Engine Description
Engine Code

Vehicle Line Mazda MX-6

Model Year '91

Issued Oct. / '90

Revised (•)

F2 EGI & Turbo

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

Axle ratio (or overall top gear ratio)		-
Ring gear o.d.		-
No. of teeth	Pinion	-
	Ring gear	-

☒ Rear Axle Unit Not-applicable

Description		-
Limited slip differential (type)		-
Drive pinion	Type	-
	Offset	-
No. of differential pinions		-
Pinion / differential	Adjustment (shim, etc.)	-
	Bearing adjustment	-
Driving wheel bearing (type)		-
Lubricant	Capacity [L (pt.)]	-
	Type recommended	-

☒ Propeller Shaft - Rear Wheel Drive Not applicable

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			-
Outer diam. x length* x wall thickness	Manual 3-speed transmission		-
	Manual 4-speed transmission		-
	Manual 5-speed transmission		-
	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. Page 10

MVMA-90

(Rear Wheel Drive)

MVMA Specifications

Vehicle Line Mazda MX-6

Model Year '91 Issued Oct./'90 Revised (-)

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

F2 EGI

F2 Turbo

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P185/70 R14	P195/60 VR15
	Type (bias, radial, steel, nylon, etc.)		Radial	←
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	216 kPa (32 psi)	←
		Rear (kPa (psi))	177 kPa (26 psi)	←
Wheels	Rev./mile-at 70 km/h (45 mph)		-	-
	Type & material		Steel & Aluminum alloy	Aluminum alloy
	Rim (size & flange type)		14 x 5 1/2 - JJ	15 x 6 - JJ
	Wheel offset		42 mm	←
	Attachment	Type (bolt or stud)	Nut	←
		Circle diameter	114.3	←
Spare	Number & size		M12 x 1.5 x 5	←
	Tire and wheel		T125/70:D15, 4-T x 15	←
	Storage position & location (describe)		Trunk room	←

Tires And Wheels (Optional)

Tire size (load range, ply)		P195/60 R15	P205/60 VR15
radial, steel, nylon, etc.)		Radial	←
Wheel (type & material)		Aluminum alloy	←
Rim (size, flange type and offset)		15 x 6 - JJ	←
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Spare tire and wheel size (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)			

Brakes - Parking

Type of control		Manual	←
Location of control		Over floor tunnel	←
Operates on		Rear wheel	←
If separate from service brakes	Type (internal or external)	NA	←
	Drum diameter	-	
	Lining size (length x width x thickness)	-	

MVMA Specifications

Vehicle Line Mazda MX-6

Model Year 91 Issued Oct. / 90 Revised (-)

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

2-Door Coupe EGI	2-Door Coupe EGI-Turbo (M5)	2-Door Coupe EGI-Turbo (4AT)
---------------------	--------------------------------	---------------------------------

Steering

Manual (std., opt., n.a.)			NA	←	←	
Power (std., opt., n.a.)			Std.	←	←	
Adjustable steering wheel/column (tilt, telescope, other)	Type		-	-	-	
	Manufacturer		-	-	-	
	(std., opt., n.a.)		-	-	-	
Wheel diameter** (W9) SAE J1100	Manual		-	-	-	
	Power		-	-	-	
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	-	-	-	
		Manufacturer	-	-	-	
		Ratios	Gear	-	-	-
			Overall	-	-	-
	No. wheel turns (stop to stop)		-	-	-	
Power	Type (coaxial, elec., hyd., etc.)		Integral	-	-	
	Manufacturer		TRW U.S.A.	NIHON POWER STEERING	←	
	Gear	Type	Rack and Pinion	←	←	
		Ratios	Gear	∞	←	←
			Overall	18.0	17.1	←
	Pump (drive)		V-ribbed belt	←	←	
	No. wheel turns (stop to stop)		3.0	2.7	←	
Linkage	Type		Rack and Pinion			
	Location (front or rear of wheels, other)		Rear of wheel	←	←	
	Tie rods (one or two)		Two	←	←	
Steering axis	Inclination at camber (deg.)		-	-	-	
	Bearings (type)	Upper	Needle bearing	←	←	
		Lower	Ball Joint	←	←	
		Thrust	-	-	-	
Steering spindle/knuckle & joint type			-	-	-	
Wheel spindle/hub	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.

** See Page 22.

MVMA Specifications

Vehicle Line Mazda MX-6
Model Year '91 Issued Oct. / '90 Revised (+) _____

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

2-Door Coupe

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	1°13' + 45'
		Camber (deg.)	0°17' + 45'
		Toe-in (outside track-mm (in.))	0 + 3
	Service reset*	Caster	-
		Camber	-
		Toe-in	-
	Periodic M.V. inspection	Caster	-
		Camber	-
		Toe-in	-
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	0°30' + 45'
		Toe-in (outside track-mm (in.))	0 + 3
	Service reset*	Camber	-
		Toe-in	-
	Periodic M.V. inspection	Camber	-
		Toe-in	-

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

Electrical – Instruments and Equipment

DX

SDX

GT

Speedometer	Type (analog, digital, std., opt.)	Analog (std.)	Analog/elec (Opt)	←
	Trip odometer (std., opt., n.a.)	Std.	←	←
EGR maintenance indicator		-	-	-
Charge indicator	Type	-	-	-
	Warning device (light, audible)	Light	←	←
Temperature indicator	Type	-	-	-
	Warning device (light, audible)	NA	←	←
Oil pressure indicator	Type	-	-	-
	Warning device (light, audible)	Light	←	←
Fuel indicator	Type	-	-	-
	Warning device (light, audible)	Light	←	←
Wind-shield wiper	Type (standard)	Semi-concield	←	←
	Type (optional)	Adjustable	←	←
	Blade length	-	-	-
	Swept area (cm ² (in. ²))	-	-	-
Wind-shield washer	Type (standard)	4 jet	←	←
	Type (optional)	NA	←	←
	Fluid level indicator (light, audible)	Light	←	←
Rear window wiper, wiper/washer (std., opt., n.a.)		Std.	←	←
Horn	Type	Dual	←	←
	Number used	2	←	←
Other	4-wheel steerage (4WS)	NA	NA	Std. (sedan)

MVMA Specifications

Vehicle Line Mazda MX-6
 Model Year '91 Issued Oct. / '90 Revised (-)

METRIC (U.S. Customary)

Engine Description
 Engine Code

F2 EGI & Turbo

Electrical - Supply System

Battery	Manufacturer	NIHON BATTERY / MATSUSHITA BATTERY
	Model, std., (opt.)	50D 20L / 55D 23L Maintenance free
	Voltage	12 V / 12 V
	Amps at 0°F cold crank	306 A / 356 A
	Minutes-reserve capacity	78 / 99
	Amps/hrs.-20 hr. rate	50 AH / 60 AH
	Location	Engine room
Alternator	Manufacturer	MITSUBISHI (F2T AT) / MITSUBISHI (F2TMT, F2E)
	Rating (idle/max. rpm)	12 V - 80 A / 12 V - 70 A
	Ratio (alt. crank/rev.)	2.50
	Output at idle (rpm, park)	-
	Optional (type & rating)	-
Regulator	Type	IC - Type

Electrical - Starting System

Motor	Manufacturer	MELMAC
	Current drain _____ °F	-
	Power rating (kw (hp))	1.4 KW
Motor drive	Engagement type	Magnetic
	Pinion engages from (front, rear)	-

Electrical - Ignition System

		F2 EGI	F2 Turbo
Type	Electronic (std., opt., n.a.)	NA	Std.
	Other (specify)	Transistorized	NA
Coil	Manufacturer	HANSHIN ELEC., MITSUBISHI	-
	Model	-	-
	Current	Engine stopped - A	-
		Engine Idling - A	-
Spark plug	Manufacturer	NGK / NIPPON DENSO	
	Model	ZFR5F-11, ZFR6F-11, ZFR7F-11 / KJ16CR11, KJ20CR11, KJ22CR11	
	Thread (mm)	-	
	Tightening torque (N-m (lb. ft))	10.8 ~ 16.6 lb-ft	
	Gap	1.0 ~ 1.1	
	Number per cylinder	1	
Distributor	Manufacturer	MITSUBISHI ELEC.	
	Model	ESA	

Electrical - Suppression

Locations & type	High tension cord & spark plug
------------------	--------------------------------

MVMA Specifications

Vehicle Line Mazda MX-6

Model Year '91 Issued Oct. / '90 Revised (-) _____

METRIC (U.S. Customary)

Body Type

2-Door Coupe

Body

Structure	Unitized all steel welded body with energy absorbing front and rear structures
Bumper system front - rear	5 MPH bumper (front & rear)
Anti-corrosion treatment	Major exterior and structural sheet metal component

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		-
Hood	Material & mass	Steel
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Material & mass	Steel
	Type (counterbalance, other)	Counterbalance
	Internal release control (elec., mech., n.a.)	Mech.
Hatch-back lid	Material & mass	NA
	Type (counterbalance, other)	NA
	Internal release control (elec., mech., n.a.)	NA
Luggage	Material & mass	NA
	Type (drop, lift, door)	NA
	Internal release control (elec., mech., n.a.)	NA
Vent window control (crank, friction, pivot, power)	Front	NA
	Rear	NA
Window regulator type (cable, tape, flex drive, etc.)	Front	NA
	Rear	NA
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Spring
	Rear	Formed urethane
	3rd seat	NA
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Spring
	Rear	Formed urethane
	3rd seat	NA

MVMA Specifications

Vehicle Line Mazda MX-6
 Model Year '91 Issued Oct/'90 Revised (+) _____

METRIC (U.S. Customary)

Body Type

2-Door Coupe

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Lap belt	NA	Lap belt
	Standard / optional	Second seat	Lap & Shoulder belt	Lap belt	Lap & Shoulder belt
		Third seat	NA	NA	NA
Passive	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual - lap belt)	First seat	Motorized-2-point belt	NA	Motorized-2-point belt
	Standard / optional	Second seat	NA	NA	NA
		Third seat	NA	NA	NA

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)		Laminated
Side glass (type)		Tempered
Backlight glass (type)		Tempered

Headlamps

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

Frame

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

MVMA Specifications

Vehicle Line Mazda MX-6

Model Year '91

Issued Oct. / '90

Revised (-)

METRIC (U.S. Customary)

Body Type

2-Door Coupe

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

SDX

GT

		Manual	←	←
Air conditioning (manual, auto, temp control)		Manual	←	←
Clock (digital, analog)		Digital	←	←
Compass / thermometer		NA	←	←
Console (floor, overhead)		Floor	←	←
Defroster, elec. backlight		Elec.	←	←
Electronic	Diagnostic monitor (integrated, individual)	-	-	-
	Instrument cluster (list instruments)	-	-	-
	Keyless entry	NA	←	←
	Tripfinder (avg. spd., fuel)	NA	←	←
	Voice alert (list items)	NA	←	←
	Other			
Fuel door lock (remote, key, electric)		Opt (remote/elec.)	Std. (elec.)	←
Lamps	Auto head on / off delay, dimming	NA	←	←
	Cornering	-	-	-
	Courtesy (map, reading)	Std.	←	←
	Door lock, ignition	Std.	←	←
	Engine compartment	NA	←	←
	Fog	NA	←	←
	Glove compartment	Std.	←	←
	Trunk	Std.	←	←
	Illuminated entry system (list lamps, activation)	-	-	-
	Other	-	-	-
Mirrors	Day / night (auto, man.)	Std. (man.)	←	←
	L.H. (remote, power, heated)	Opt. (power)	Std. (power)	←
	R.H. (convex, remote, power, heated)	Std. (convex) Opt. (power)	Std. (convex/power)	←
	Visor vanity (RH / LH, illuminated)	-	-	-
Navigation system (describe)		-	-	-
Parking brake-auto release (warning light)		NA	←	←

MVMA Specifications

Vehicle Line Mazda MX-6
 Model Year '91 Issued Oct. / '90 Revised (-)

METRIC (U.S. Customary)

Engine Description
 Engine Code

2-Door Coupe

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

DX

SDX

GT

Power equipment	Deck lid (release, pull down)		NA	Std.	←
	Door locks (manual, automatic, describe system)		NA	Std.	←
	Seats	2 - 4 - 6 way, etc.	NA	←	←
		Reclining (R.H., L.H.)	NA	←	←
		Memory (R.H., L.H., present, recline)	NA	←	←
		Lumbar, hip, thigh, support	NA	←	←
		Heated (R.H., L.H., other)	NA	←	←
	Side windows		NA	Std.	←
	Vent windows		NA	←	←
Rear windows		NA	←	←	
Radio systems	Antenna (location, whip, w / shield, power)		Opt. (roof)	Std. (roof)	←
	Standard	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	None	-	-
	Optional		AM/FM Radio with Auto Reverse Cassette Deck	← or AM/FM Radio with Autoreverse Cassette Deck Graphic Equalizer	←
	Speaker (number, location)		Opt. (4)	Std. (4)	←
	Roof: open air or fixed (flip-up, sliding, "T")		NA	Opt.	←
Speed control device		Opt.	Opt.	Std.	
Speed warning device (light, buzzer, etc.)		NA	←	←	
Tachometer (rpm)		Std.	←	←	
Telephone system (describe)		NA	←	←	
Theft deterrent system		NA	Opt.	←	

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line Mazda MX-6

Model Year '91

Issued Oct. / '90

Revised (-)

Body Type

2-Door Coupe

SAE
Ref.
No.

☒ Front Compartment

SgRP front, "X" coordinate	L31
Effective head room	H61
Max. eff. leg room (accelerator)	L34
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
Hip room	W5
Upper body opening to ground	H50
Steering wheel maximum diameter*	W9
Steering wheel angle	H18
Accel. heel pt. to steer. whl. cntr	L11
Accel. heel pt. to steer. whl. cntr	H17
Undepressed floor covering thickness	H67

☒ Rear Compartment

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

Luggage Compartment

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

Interior Volumes (EPA Classification)

Vehicle class	
Interior volume index (cu. ft.)**	
Trunk / cargo index (cu. ft.)	

* See page 14.

** Includes passenger and trunk / cargo index - see definition page 32.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line Mazda MX-6

Model Year '91

Issued Oct. / '90

Revised

Body Type

2-Door Coupe

Station Wagon - Third Seat SAE Ref. No. Not-applicable

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

Station Wagon - Cargo Space Not-applicable

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	-
Min. rear opening width above belt	W205	-
Cargo height	H201	-
Rear opening height	H202	-
Tailgate to ground height	H250	-
Front seat back to load floor height	H197	-
Cargo volume index (m ³ (ft. ³))	V2	-
Hidden cargo volume index (m ³ (ft. ³))	V4	-
Cargo volume index-rear of 2-seat	V10	-

Hatchback - Cargo Space Not-applicable

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	-
Front seatback to load floor height	H197	-
Second seatback to load floor height	H198	-
Cargo volume index (m ³ (ft. ³))	V3	-
Hidden cargo volume index (m ³ (ft. ³))	V4	-
Cargo volume index-rear of 2-seat	V11	-

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda MX-6

Model Year ' 91 Issued Oct. / ' 90 Revised (•) _____

Body Type

2-Door Coupe

Vehicle Fiducial Marks

Number*	Define Coordinate Location
Front	
Rear	
Fiducial Mark Number	
Front	W21* —
	L54* —
	H81* —
	H161* —
	H163* —
Rear	W22* —
	L55* —
	H82* —
	H162* —
	H164* —

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

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda MX-6
Model Year '91 Issued Oct. / '90 Revised (•) _____

[illegible]

* Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.

** ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certifications. Refer to ETWC code legend below for test weight class.

ETWC LEGEND*

I	= 1000	J	= 2000	Q	= 3000	Y	= 4000
O	= 1125	K	= 2125	R	= 3125	Z	= 4250
C	= 1250	L	= 2250	S	= 3250	AA	= 4500
C	= 1375	M	= 2375	T	= 3375	BB	= 4750
F	= 1500	N	= 2500	U	= 3500	CC	= 5000
F	= 1625	O	= 2625	V	= 3625	DD	= 5250
G	= 1750	P	= 2750	W	= 3750	EE	= 5500
H	= 1875		= 2875	X	= 3875	FF	= 5750

SHIPPING MASS (weight) Calculation (Kg. (lbs.))

Shipping Mass (weight) = Curb Weight Less:

METRIC (U.S. Customary)

Vehicle Line Mazda MX-6
Model Year '91 Issued Oct./'90 Revised (•) _____

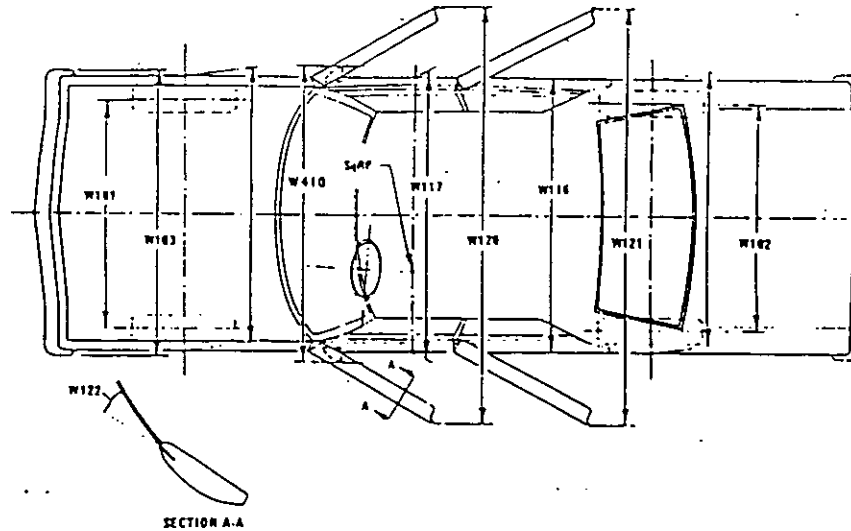
* Also see Engine - General Section for dressed engine mass (weight).

MVMA Specifications

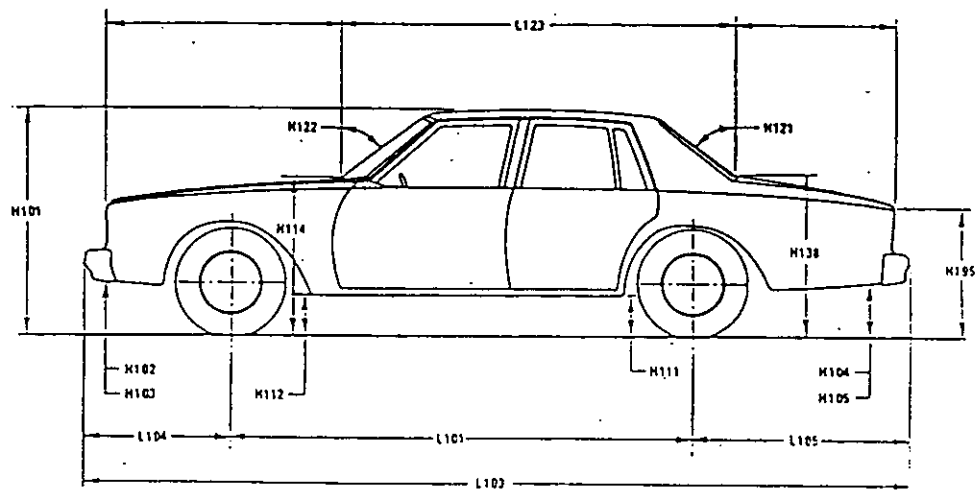
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions – Key Sheet

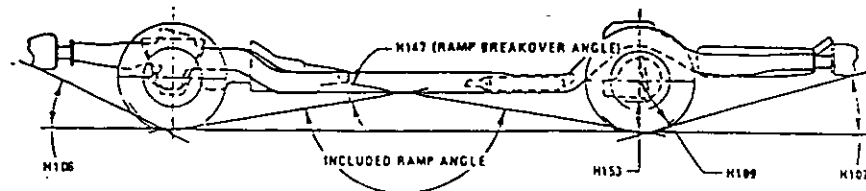
Exterior Width



Exterior Length & Height



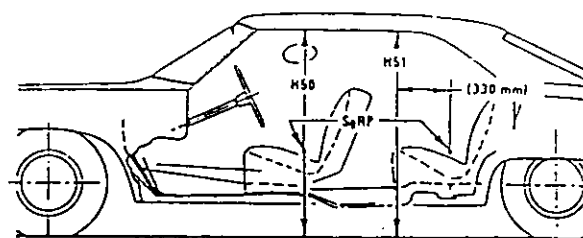
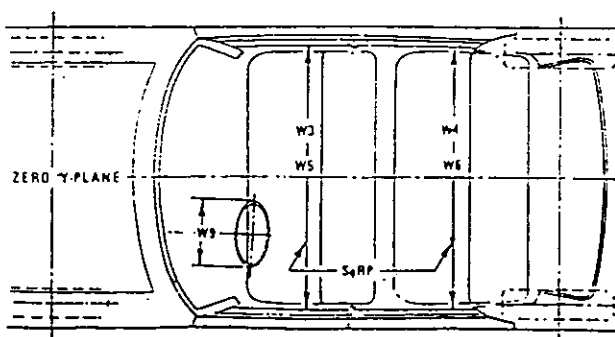
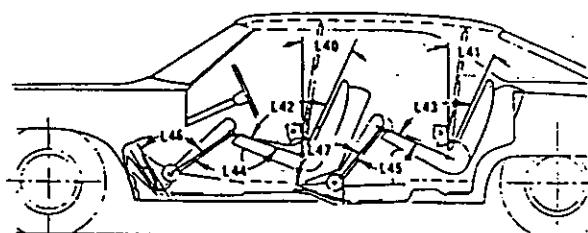
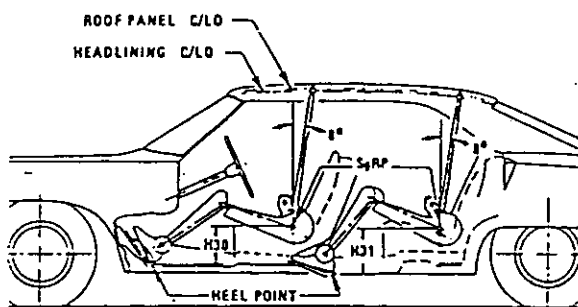
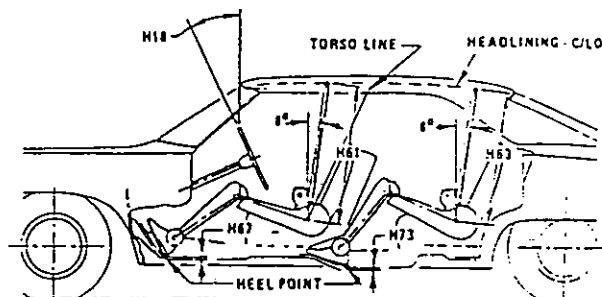
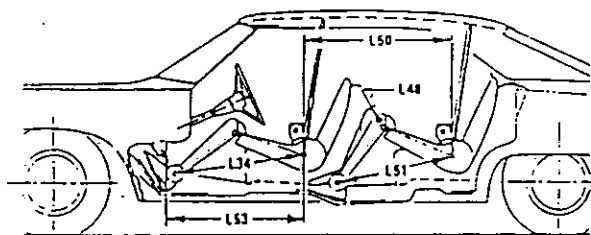
Exterior Ground Clearance



MVMA Specifications Form

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions -- Key Sheet

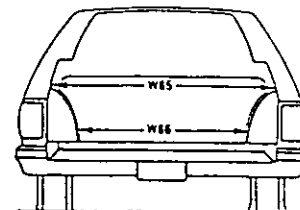
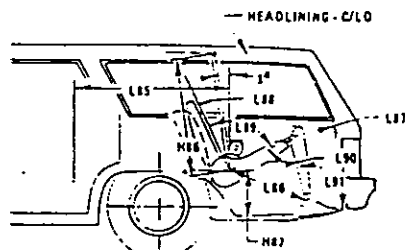


MVMA Specifications Form

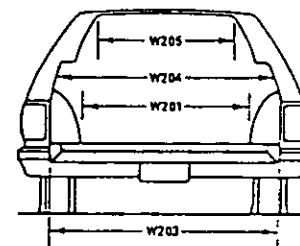
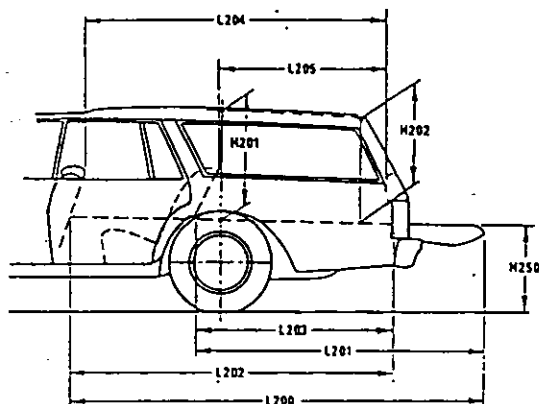
METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet

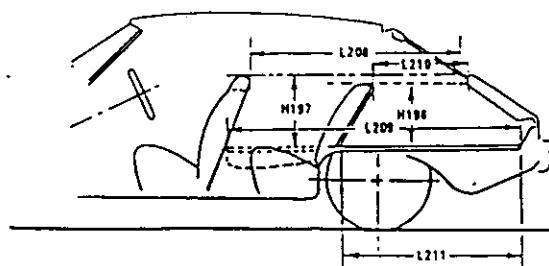
Third Seat



Cargo Space



Station Wagon



Hatchback

IVMA Specifications

IETRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which -
(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
(b) Has coordinates established relative to the design vehicle structure;
(c) Simulates the position of the pivot center of the human torso and thigh; and
(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations."

Width Dimensions

- V101 TREAD - FRONT. The dimension measured between the tire centerlines at the ground.
- V102 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.
- V103 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.
- V117 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.
- V410 OUTSIDE MIRROR WIDTH. The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" 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 OVERHAND - 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 the midpoint of the distance between the rear axle centerlines.

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.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD - TIRE RADIUS - REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND - CURB MASS (WT.). Measured in the same manner as H102.
- 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 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.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

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.
 - H82 "Z" coordinate.
 - H162 Height "Z" coordinate to ground at curb weight.
 - H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

- L1 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT - FRONT TRAVEL. The dimension measured horizontally between the design H-point - front in the foremost and rearmost seat track positions. (See SAE J1100)
- L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100).
- L31 SgRP - FRONT, "X" COORDINATED.
- L34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP - front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L 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.
- H7 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.
- 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.

Rear Compartment Dimensions

- 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 the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE - SECOND. The dimension measured horizontally from the driver SgRP - front to the SgRP - second.
- L51 MINIMUM EFFECTIVE LEG ROOM - SECOND. The dimension measured along a line from the ankle pivot center to the SgRP - second plus 254 mm (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.
- 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.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

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.

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 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE - THIRD. Measured in the same manner as L41.
- L89 HIP ANGLE - THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE - THIRD. Measured in the same manner as L45.
- L91 FOOT ANGLE - THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM - THIRD. Measured in the same manner as W4.
- W86 HIP ROOM - THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM - THIRD. The dimension, measured along a line 8 deg. from the SgRP - third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- L87 SgRP - THIRD TO HEEL POINT.
- L 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.
- 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:

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

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

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:

$$\frac{L506 \times W505 \times H503}{1728} = \text{ft}^3$$

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:

$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

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 electronically 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 "X" 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 seatback to the undepressed floor covering.

V3 HATCHBACK.

Measured in inches:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:

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

Measured in mm:

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

MVMA Specifications

METRIC (U.S. Customary)

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