# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC( U.S. Customary)

Passenger Car

1986

Mazda Motor Corporation

Mazda RX-7

Mailing Address

Mazda RX-7

3-1, Shinchi, Fuchu-cho
Aki-gun, Hiroshima, Japan

Issued

Dec. / 85

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.

Blank Forms Provided by Technical Affairs Division

Motor Vehicle Manufacturers Association of the United States, Inc.

**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	RX-7			
Model Year_	1986	Issued	Dec./85	Revised (*)	

### **Car Models**

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Migr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
		i		
·			• • •	
Mazda RX-7	2 Door Coupe	e JM1FC331	2 / 0	40 lb.
			2 / 2	80 lb.

Car Line	Mazda	RX-7	<u></u>		
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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.

	T	ENGINE			E		T	
SERIES AVAILABILITY	Disol.	Displ. Carb. SAE Net at RPM		h a	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)		
AVAICABILITY	Displ. Liters (in <sup>3</sup> )	Carb. (Barrels, Fl, etc.)	Compr. Ratio	kW (bhp)	Torque N·m (lb. ft.)	ย s t S∕D	THANSAXLE .	(std. first)
•				-				
Mazda RX-7	0.654 x 2	FI	9.4	146 @ 6500	138 @ 3500	s	Manual	4.100
				rpm	rpm		Automatic	3.909
						,		
	-			·				
						•		
					-			
			٠,				·	
į								
			:		:			,
			-		:			
- ;					:			i
;							2· 1	1.20 = 1.00 miles
						-		

**METRIC (U.S. Customary)** 

Car Line	Mazda R	ユーフ			
Model Year_	1986:	Issued	Dec./85	Revised (*)	

Engine	Description/C	arb.
Engine	Code	

0.654 x 2 Liters

### ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, soho, doho, ohv, hemi, wedge, pre-camber, etc.)		Type: Rotor Engine Location: Front Engine installation position: Longitudinal				
Manufacturer		Mazda				
No. of cylinders		2 rotors				
Bore		. 105 x 15 x 80 mm				
Stroke	·	_				
Bore spacing (C/L to C/L)		<del>-</del>				
Cylinder block material & mas	s kg (lbs.)	<del>-</del>				
Cylinder block deck height						
Deck clearance (minimum) (above or below block)		-				
Cylinder head material & mas	s kg (lbs.)	Rotor housing: Aluminum Ailoy				
Cylinder heed volume (cm²)	<del></del>	<del>-</del>				
Heed gasket thickness (compressed)		-				
Ninimum combustion chember total volume (cm²)		78				
Cyl. no. system L.	Benk	•				
44	Bank	· <b>-</b>				
Firing order		1 - 2				
Intake manifold material & ma	iss (kg (weight, lbs.))	_				
Exhaust manifold material & r	nass (kg (weight, fbs.))					
Recommended fuel (leeded, unleeded, diesel)		Unleaded (Regular)				
Fuel antimock index (FL + 2	⊢ M)	_				
Total dressed engine mass (v	vt) dry**	_				
Engine – Pistons						
Material & mass, g (weight, oz.) - piston only		Rotor material: Cast iron				
Engine – Camshaft						
Location						
Material & mass tig (weight, i	be.)	_				
Orive type C	hain / belt					
	fidth / pitch	-				

 $<sup>^{*}</sup>$  Rear of engine – drive takeoff, View from drive takeoff end to determine left  $\hat{\mathbf{a}}$  right side of engine.

<sup>&</sup>quot;Dressed engine mass (weight) includes the following:

Car Line	Mazda			<u>.                                      </u>	τ.	
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•				· 2
Engine Description/Carts. Engine Code		erla.	0.654 x 2 Liters	
Engine	Valve S	ystem .		
Hydraulic lifts		<del></del>	-	
11/22		ntake / exhaust	-	
Valves	Head O.D	), intake / exhaust		
Engine -	Connec	ting Rods	. NA	
Material & m	ess (kg., (we	ight, (bs.))	-	
Engine -			•	
Material & m	1855 [kg., (w	right, Ibs.)]	Special Steel	
End thrust to	_		2	
Number of m	nain bearings	3	<b>-</b>	
Seal (materia		Front	-	
one, two pier design, etc.)		Rear	-	
Engine -	- Lubrica	tion System		
Normal oil p	ressure (kPe	(psi) at engine rpm	· -	
Type oil intai	ke (floating,	stationary)	Stationary	
Oil filter syst			Full flow cartridge	<del></del>
Capacity of	c'case, less	filter-refill-L (qL)	4.4 Liters	. `
Engine -	- Diesei I	nformation	NA	
Diesel engin	ve manufacti	per	-	
Glow plug, c	turrent drain	at 0°F	-	
Injector	Туре	<del></del>		
nozzie		pressure [kPa (psi)]		
Pre-chambe	*T			
Fuel in- jection pump	Manufac	turer		<u> </u>
	1 .75-	e (belt. chain, gear)		
		source (type)	_	
Fuel heater			-	
Water seperator, description (std., opt.)		otion	-	
Turbo manufacturer		<u>.</u>	-	
Oil cooler-type (oil to engine coolant; oil to ambient air)		gine coolant:	-	
Oil filter	- •			•
	- Intake	System		
	ger - menufe	<del></del>		- ·
	ger - manuta		-	
Charge coo		•		
	<del></del>			

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

Engine De	ecriptic	on/Carb.
Engine Co		•

0.654 x 2 Liters

	_	
Engine	Cooling System	
	-Cooling System	
	Overy system (std., opt., n, a.)	NA
	ocation (rad., bottle)	
Redistorce	retief valve pressure [kPa (psi)] .	0.9
Circulation Inermostat	Type (choke, bypass)	Bottom by-pass
******	Starts to open at *C (*F)	82 over 95°C
	Type (centrifugal, other)	Centrifugal impeller
	GPM 1000 pump rpm	
	Number of pumps	1
Water	Drive (V-belt, other)	V-belt
итр	Bearing type	Ball bearing
	Impeter material	•
	Housing material	-
y-pass reci	rculation (type (inter,, ext.))	External
Cooling	With heater-L(qt.)	7.3
rystem apacity	With air condL(qt.)	7.3
	Opt. equipment [specify-L(qt.)]	NA NA
Water jackets full length of cyl. (yes, no)		Yes
Vater all aro	und cylinder (yes, no)	Yes
Vater jacket	s open at head face (yes, no)	-
	Std., A/C, HD	
	Type (cross-flow, etc.)	Vertical flow
Raciator	Construction (fin & tube mechanical, braze, etc.)	Tube & fin
one	Material, mass (kg (wgt, lbs.))	_
	Width	561.8 mm
	Height	430 mm
	Thickness	32 mm
	Fins perinch	12.7
lactietor end	tankmaterial	Resin
	Std., elec., opt.	- Resin
	Number of blades & type (flex, solid, material)	8
	Diameter & projected width	390 mm
	Ratio (fan to crankshaft rev.)	1.23
an	Fan cutout type	Fluid coupling
	Drive type (direct, remote)	Belt drive
	SPM at idle (elec.)	- Delt dilve
	Motor rating (wartage) (elec.)	
	Motor switch (type & location) (elec.)	•
	Switch count (form) pressure) (eleg )	

Fan shroud (material)

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•			•	•

Engine Description/Carb. Engine Code

Induction typinjection sys	e: carburetor, fuel tem, etc.		Fuel Injection
	Mgr.		
-	Choke (type)		-
Carbure-		Manual	-
or .	Idle spdrpm (spec. neutral		
	or drive and propane if	Automatic	*
	used)		+
dle A/F mix		<del>*</del>	
	Point of injection	n (na.)	2
F 4	Constant, pulse		Pulse
Fuel njection	Control (electro		- '-
	System pressu	<del>-</del>	· · · · · · · · · · · · · · · · · · ·
	fold heat control (e rmostatic or fixed)		<del>-</del>
Air cleaner	Standard		Element: Long life dry
ype	Optional		N.A.
Fuel pump	Type (elec. or r	mech.)	Electric
	Location (eng., tank)		Tank
	Pressure range		441 - 488
Capacity [refit L (gallons)]			
Capacity [re	fill L (gallons)]		63
			63
Location (de	escribe)		
Location (de Attachment	escribe)	5)}	
Location (de Attachment Material & A	escribe)	<del></del>	
Location (de Attachment Material & A Filler	escribe) Asss (lug (weight lb:	terial	
Location (de Attachment Material & A Filler pipe	Ass [tig (weight lb: Location & mail Connection to	terial	- - - -
Location (de Attachment Material & A Filler pipe Fuel line (m	Asss (kg (weight lb: Location & mal Connection to laterial)	terial	
Location (de Attachment Material & A Filler pipe Fuel fine (m Fuel hose (r	Assa (kg (weight ka Location & mal Connection to l sterial)	terial	
Location (de Attachment Material & A Filler pipe Fuel line (m Fuel hose (r Return line	Asss (kg (weight lo Location & mal Connection to sterial) (material)	terial	
Location (de Attachment Material & A Filler pipe Fuel line (m Fuel hose (i Return line (	Asss (kg (weight lo Location & mal Connection to sterial) (material)	terial	
Location (de Attachment Material & A Filler pipe Fuel line (m Fuel hose (r Return line Vapor line ( Extended range	Ass (kg (weight lo Location & mal Connection to laterial) material) (material)	terial tank	
Location (de Attachment Material & A Filler pipe Fuel line (m Fuel hose (r Return line Vapor line ( Extended range	Ass (by (weight ib: Location & mai Connection to i sterial) material) (material) Opt., n.a.	terial tank .	
Location (de Attachment Material & A Filler pipe Fuel line (m Fuel hose (r Return line Vapor line ( Extended range	Asss [kg (weight lb: Location & mai Connection to i sterial) material) (material) Opt., n.a. Capacity [L (ga	terial tank .	
Location (de Attachment Material & A Filler pipe Fuel line (m Fuel hose (r Return line Vapor line ( Extended range	Asss [lig (weight lib Location & mal Connection to l steriar) materiar) (materiar) Opt., n.s. Capacity (L. (ga Location & mal	terial tank .	
Location (de Attachment Material & k Filler pipe Fuel line (m Fuel hose (r Return line ( Vapor line ( Extended range tank	Asss (kg (weight lo Location & mal Connection to i sterial) (material) (material) Opt., n.a. Capacity (L (ga Location & mal Attachment	tank	
Location (de Attachment Material & A Filler pipe Fuel line (m Fuel hose (i Return line (i Extended range tank	Asss (kg (weight lo Location & mal Connection to i sterial) (meterial) (meterial) Opt., n.s. Capacity (L (ga Location & mal Attachment Opt., n.s.	idenial tank . illons)) (erial	
Location (de Attachment Material & A Filler pipe Fuel line (m Fuel hose (i Return line (i Extended range tank	Asss (kg (weight lo Location & mai Connection to i sterial) material) (material) Opt., n.a. Capacity (L (ga Location & mai Attachment Opt., n.a. Capacity (L (ga	idenial tank . illons)) (erial	
Location (de Attachment	Asss [kg (weight lo- Location & mai Connection to l sterial) material) (meterial) material) Opt. n.a. Capacity [L (ga Location & mai Attachment Opt., n.a. Capacity (L (ga Location & mai	terial tank  tilona)) terial  allons))	

Car Line	Mazda 				
Model Year	1986	iszned T	Dec./85	_ Revised (*) _	

<b>Engine Description</b>	vÇarb.
Engine Code	

Engine Code	re Code			0.654 x 2 Liters
/ehicle E	mission C	iontrol	٠١	
	Type (air inje modifications	ection, engi	ne	Air injection , Catalyst & EGR
	ī	Pump or p	v dee	Vane type
	ļ į	Driven by,		Air pump drive belt
	Air Injection	Air distribu (heed, ma	stion miloid, etc.)	Rotor housing & Catalyst
	L	Point of er	ntry	Ex. port & Catalist
scheust	Exhaust	Type (con open orific	trolled flow, ce, other)	Controlled flow
mission ontrol	Gas Recircula-	Exhaust s	ource	Ex. manifold
	tion		xhaust injection arburetor, other)	I. M. housing
		Туре		3 Way & Oxd.
-		Number of Location(s)		3
	Catalytic Converter			Under floor
•	ļļ	Volume (L	[(E13)]	2.2 , 1.4
	<u> </u>	Substrate	type	Monolith
	Type (verbistes to atmosphere, induction system, other)			Closed 2 way system with control valve
Crankcase Emission	Energy source (manifold vectorn, carburetor, other)		ld her)	Ported vacuum
Control	Discharges (to intake manifold, other)			Intake manifold
· .	Air inlet (bre			Air cleaner
vapora- ive	Vapor vente (crankcase,		Fuel tank	. Crank case & Charcoal canister
Emission Control	Canister, oth		Carburetor	Crank case & Charcoal canister
	Closed loop	ge provision		Crank case & Charcoal canister Yes
Sectronic - lystem	Open loop (		<del></del>	yes
Engine –	Exhaust :	·	· · ·	
Type (single, tual, other)	single with cro	oss-over.	·	Single
Muffler no. & separate res	type (reverse onator) Mateni	flow, straigs at & Mass (i	nt thru, ig (weight lbs)]	1
Resonator no	stor na. & type			
Exhaust	Branch o.d.			
pe	Main o.d., w			-
	Material & A		eight lbs)j	
inter- mediate	O.d. & well t			
pipe	Material & R		angent rost)	
انع ۲	o.d. & wall thickness		<u></u>	

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Car Line	Mazda	RX-/				
Model Year	1986	issued	Dec./85	Revised (*)	***	
<del></del>		• •	· .: It.			

Engine Description/Carb. Engine Code		<b>b.</b>	0.654 x 2 Liters			
Transmis	sions/Tra	ınsaxle				
Manual 3-sp	red (std., opt.,	, r.a.) (mfr.)	N.A.			
Manual 4-sp	red (std., opt.,	, n.a.) (mfr.)	N.A.			
Menual 5-sp	red (std., opt.,	, n.a.) (mtr.)	Std.			
Manual oven	trive (std., opi	., n.a.) (mir.)	N.A.			
Automatic (s	d., opt., n.a.)	(mfr.)	N.A.			
Automatic ov	erdrive (ald.,	opt., r.a.) (mfr.)	Std.			
Manuai 1	ransmiss	ion/Transaxle				
Number of to	rward speeds		5-Speed			
	in first		3,475			
	In second		2.002			
Transmis-	in third		1.366			
	In fourth		1.000			
sion ratios	in fith		0.711			
	In overdrive	•				
	In reverse		3,493			
	meshing (sp	ecity gears)	All forward gear			
Shift lever to	1	4-33	Floor *			
<b>)</b>	Capacity [L		2.0			
Lubricant	Type recon	Summer	A.P.I. Service GL-4 or GL-5 Above-18°C: SAE 90			
	SAE vie-	Winter	Below -18°C: SAE 80W			
	number	Extreme cold	All seasons: SAE 80W-90			
	<del>`</del>	· · · · · · · · · · · · · · · · · · ·				
Clutch (N	ianuai Tr	ansmission)				
Make, type, i (hydraulic; ci	engagement ( able, rod)	describe) —	DAIKIN MANUFACTURING CO. LTD. / Dry single plate			
Assist (yes.	o percent)		••••••••••••••••••••••••••••••••••••••			
Type pressu	re plate spring	<b>;5</b> .	Diaphragm			
Total soring	oad (N (lb.))		490 lb.			
No. of clutch	driven discs		1			
	Material		Semimold			
	Manufactu	rer	ASAHI SEKIMEN			
	Part numbe		N204 16 460A			
	Rivets plate	•	16 .			
Clutch facing	Rivel Size		_			
	Outside &	······	225 x 150 mm			
		res (cm²(in.²))	220			
	Thickness		3.5 / 4.1 mm			
	Engageme method	nt cushion	Cushion spring			
Release bearing	Type & me of lubrication		S. row ball bearing			
Torsional damping	Method: so fnction mas		Coil spring			

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C	Mazda	RX57			
Car Line	1986		Dec./35	Revised (e)	·
Model Ye	ar	ISSUEC		_ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Engine	Description/Carls	4
Engine		

tomatic	Transmiss	ion/Transaxie		
de name			L4N71B (4AT)	
	ial features (des	cribe)	Oil pressure cont	rol
<del></del>	Location		Floor change	•
ector	Ltr. No. design	ntion		
<del></del>	A		R : 2.400	
<u> </u>	<u>''</u>		1st : 2.841	
65 C	4		2nd: 1.541	
	<u>4</u>		3rd : 1.000	
	L		4th: 0.720	
و الشاعب ا	need - drive rac	ge (km/h (mph))		): 101
u tricketen	n sneed - drive	range (kmvh (mph))	(2-1): 43, (3-2)	): 95 ·
	e speed (knyh (r		27 (4AT)	·
	Number of ek		3	
•	Maos, ratio at		1.90 : 1	
udne udne	Type of coolin		Water	
}	Nominal diam		236	
	Capacity (refi		7.5 (4AT)	
pricant	Type Recom		ATF M2C33F	
ii cooler (si xternal, air,	al., opt., NA, into		-	
lyle or I	Front Whee	l Drive Unit		
ype (front.			Rear	
escription			Hypoid gear	
imited slip	differential (type	)	L.O.M. Type	<del></del>
Orive pinior			35	
Orive pinior	(type)		Hypoid gear	
	rential pinions		2 (LSD4)	
Pinion / diff	erential adjustiv	ent (shim. other)	Shim	
		adjustment (shim, other)	Collapsible sle	eve
	eel bearing (type			
	Capacity (L		1.3	
	Type recon	ymended	A.P.I. GL-5	
	SAE	Summer	SAE 90	
Lubricant	SAE VIE	Winter	SAE 90	.00
Lubricant			SAE 80W or 80W-	70
	number	Extreme cold		
	number		binations (See Power Teams for axie	ratio usage.)
Axie or	number	Ratio and Tooth Com	(5MT): 4.100 /	(4AT): 3.909
Axie or	Transaxle	Ratio and Tooth Com	(5MT): 4.100 /	(4AT): 3.909
Axie or	Transaxle (or overall top g	Ratio and Tooth Com	(5MT): 4.100 / 10 41	(4AT): 3.909 11 43
Axie of	Transaxie (or overall top g Pinion Fing geer	Ratio and Tooth Com	(5MT): 4.100 / 10 41 183 mm	(4AT): 3.909 11 43 183 mm
Axie or	Transaxie (or overall top g Pinion Fing geer	Ratio and Tooth Correspondent (Correspondent Correspondent	(5MT): 4.100 / 10 41	(4AT): 3.909 11 43 183 mm

Car Line Mazda RX-7

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

**METRIC (U.S. Customary)** 

Engine	Description/Carb.
Engine	Code

tumber use	1		-												
vne (straini	t, solid ber.		Left								-				
Type (straight, solid ber, aubular, etc.)			Right									:		 	
Outer diam, x	Manual transmis	sion	Left		<u> </u>									 	
			Right												
ingth" x	Automatic transc	nission	Left											 	
wck-			Right											 	
413	Optional transm	ssion	Left											 	
			Right							<u>-</u>		_		 	
	Туре									• •					
Slip yoke	Number of teeth						•							 <u></u>	_
	Spline a.d.					·		-	<del></del>			<del></del> -			
	Make and mfg. no.		inner										•		
	Number used													 	
	Type, size, plun	ge	Inner				· <del></del>							 	
			Outer	<del></del>				· ·							
<b>Inversal</b>	Attach (u-bolt, c	amp, etc.)	$\longrightarrow$											 	
joints		Type (plain, unti-friction)					-								
		ubrication fitting, pres	ack)							-					
Orive taken ems or son	through (torque tub	e.											•		

<sup>\*</sup> Contartine to contartine of universal joints, or to conterline of attachment

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Engine Description/Carb. Engine Code

Type (straig internal-exte	nt tube, tube-in- mai damper, el	-tube, ic.)		Straight tube
	Manual 3-sp	peed trans.		N.A.
Outer diam, x length* x wall thick-ness	Manual 4-sp	peed trans.		N.A.
	Manual 5-sp	peed trans.	· .	57 x 782 x 1.6 mm
	Overdrive			N.A.
	Automatic tr	ansmissio	n ,	57 x 733 x 1.6 mm
nter- nedizte	Type (plain, anti-friction)		n)	N.A.
bearing	Lubrication	(fitting, pre	pack)	N.A.
	Туре			Spline
Sip roke	Number of t	eeth		(M/T): 22 , (A/T): 25
	Spline a.d.			(M/T): 25.19 , (A/T): 28.05 mm
	Make and m	ifg. na.	Front	NTN, TOYO Bearing / MOO2 25 060
			Rear	NTN, TOYO Bearing / MOO2 25 060
	Number use	<u>d</u>		2
Joversal	Type (bell a	nd trunnior	n, cross)	Hooks joint
oints	Rear attach	(u-bolt, cla	emp. etc.)	Flange
	Bearing	Type (ş anti-fric	plain, ction)	Needle bearing
· _		Lubrica (fitting,	ation prepack)	Sealed grease ,
Drive taken arms or sone	through (torque	tube.		Arms
Torque take	1 through (torqu	ue tube,		Arms

Car Line Maz da P.X-7

Car Line 1986 Issued Dec./85 Revised (\*)

METRIC (U.S. Customary)

Ţ.						
Body Type / Engine Disp		0.654 X 2 Liters				
	· .					
Suspensi	ion – General					
	Std_opt/n.a.	N.A.				
ar eveling	Type (air, hyd., etc.)	——————————————————————————————————————				
	Manual/auto, controlled					
rovision for	brake dip control	Front suspension geometry				
	acci, squat control	Rear suspention geometry				
	r car jacking	None				
Shock	Туре	Cylindrical double-acting				
absorber (front & rear)	Make	F: KAYABA R: TOKIKO				
	Pistori diameter					
	Rod diameter	-				
Suspens	ion — Front					
Type and de	scription	Independent, Strut coil spring				
Drive and to	que taken through					
Travel	Full jounce	-				
	Full rebound	-				
	Type (coil, feaf, other) & material	Coil spring				
	Insulators (type & material)					
Spring	Size (coil design height & i.d., bar length x dia.)	RH: 355.5x147x12 (327x146.8x11.8) LH: 366x 147.2x12.2 (336.5x147x12) (`): For harder sus:				
	Spring rate (N/mm (Ib_in.))					
	Rate at wheel (N.mm (lb.in.))					
Stabilizer	Type (link, linkless, frameless)	Torsion bar				
	Material & bar diameter	ø 22 mm (ø24 mm )				
	1					
Suspens	sion – Rear					
Type and de	secription	Multilink semi-trailing				
Onve and to	rque taken through	-				
Travel	Full jounce	-				
	Full recound					
	Type (coil, leaf, other) & meterial	Coil spring				
eas	Size (length x wigth, coil design height & i.d., bar length & dia.)	367x84.6x9.9 (355x84.4x10.1)				
Sonng	Spring rate [N-mm (lb_in.)]	_				
	Rate at wheel [Nomm (Ibin.)]	-				
	Insulators (type & material)					
	tt No. of leaves					
	leaf Shackle (comp. or tens.)					
Stankizer	Type (link, linkless, frameiess)	Torsion bar				
	Material & bar diameter	613 mm				
Track bar (I	lypei					

## **MVMA Specifications Form**

**METRIC (U.S. Customary)** 

		Car Une			
MVMA Specifications Form	ď	Model Year 1986	Issued	Dec./85	_ R
Pässenger Cär					_
	٠.				

Body	Type And/Or	
Engin	e Dispiscement	t

0.654 x 2 Liters

Mazda RX-7

Description				
escubaci.				
Brake type Front (disc or drum)			r drum)	Disc
(std., opt., n.a.) Reer (disc or drum)			r drum)	Disc
Self-adjusting (std., opt., n.a.)				• Std.
ipecial alving				· Defferential proportioning valve
ower brake	(std., oot.	, n.a.)		Std.
coster type	(remote, i	rnegral, vec., hyd., etc.)		Integral
acuum sou	rce (inline	, pump, etc.)		-
acuum rese	ervoir (voh	nue iur <sub>a</sub> )		
/acuum pump-type (elec, geer driven, belt driven, (other so state)			<b>-</b> ∩,	-
unti-skid de	ice type (	std., opt., n.a) (F/R)		N.A.
flective are	e (cm²(in.	<u>,</u> )].		-
iross lining	area (cm²	(in.2) -(F.A)		-
Swept area [cm²(in.²)]***(F/R)				-
	Outers	orking diameter	F/R	F: 250 mm R: 257 mm
Rotor	Inner v	Inner working diameter		
	Thickn	013	F/R	F: 22 mm R: 20 mm
	Materi	el & type (vented/solid)	F/R	Cast iron
Orum	Diame	ter & width	FA	N.A.
	Type a	ind material	F/R	-
Wheel cylino	ser bore			F: 50.8 mm R: 34.9 mm
Master cylin	der	Sorerstroke	F科	22.2 x 15 mm
Pedal arc ra	ĎO.			<u>-</u>
Line pressu	re at 445 l	Y(100 lb.) pedal load (kP	a (psi)j	-
Lining cleen	ence		Fil	F: 0.1 mm R: 0.1 mm
		Bonded or riveted (rive	ts/seg.)	Integral molded
	1	Alvet size	<u> </u>	N.A.
	1 1	Manufacturer		JAPAN BRAKE KOGYO
	Front	Lining code		<u>-</u>
	wheel	Material		Molded asbestos
	]	Primary or out-	board	-
		Size Secondary or i		-
Brake	<u> </u>	Shoe thickness (no lini	ng)	14 mm
lining	1	Bonded or riveted (rive	its/seg.)	Integral molded
	Peer	Menufacturer		JAPAN BRAKE KOGYO
	wheel	Lining Code ****	<del></del>	
		Meterial		Molded asbestos
		Primary or out		
		Size   Secondary or i		

<sup>&</sup>quot;Excludes rivet holes,grooves, chamlers, etc.

<sup>&</sup>quot;Includes rivel holes, grooves, chamfers, etc.

<sup>&</sup>quot;"Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
(Olsc 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.

<sup>\*</sup>Manufacturer I.O., catalog or formulation designation and coefficient of friction classification.

Car Line Mazda RX-7

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

METRIC (U.S. Customary)

 Body Type A Engine Disp								
Tires And	Wheels (Sta	ndard)						
	Size (load range,	olv)	185/70 HR14					
	Type (bias, radial		Radial					
Tres	Inflation pres- sure (cold) for recommended	Front (kPa (pei))	32 psi					
	max, vehicle load	Rear (kPa (pai))	32 psi					
	Rev/mile-et 70 k	m/h (45 mph)						
	Type & material		Aluminum alloy					
•	Pim (size & flang	e type)	5 1/2-JJ x 14					
Wheels	Wheel offset		40					
	A.m.,	Type (bolt or stud)	Nut					
	Attachment	Circle diameter  Number & size	114.3 M12 x 1.5 / 4					
			M12 X 1.3 / 4					
Spare	Tire and wheel (same, if other describe)  T135/70 D15 Tubeless		T135/70 D15 Tubeless					
	Storage position (describe).	& location	Trunk room					
Tires And	Wheels (Opt	tional)						
Size (load ran	ge, ply)		205/60 VR15					
	pe (bias, radial, etc.)		Radial					
Wheel (type 4			Aluminum alloy					
	ige type and offset		6-JJ x 15 (M12 x 1.5 / 5) 185/70 HR14					
Size (load ran	· · · · · · · · · · · · · · · · · · ·							
Type (bies, ra Wheel (type 4			Radial Steel					
	nge type and offset		5 1/2-JJ x 14					
Size (load ran	<del></del>		J 1/2 00 K-11					
Type (bias, ra	<del></del>							
Wheel (type &	i material)							
Rim (size, flar	nge type and offset	)						
Size (load ran	ige, ply)							
Type (bias, re	cial, etc.)							
Wheel (type 8								
	nge type and offset	<u>.                                    </u>	· · · · · · · · · · · · · · · · · · ·					
road tire or	tion is different that wheel, describe are tire andror whee torage position	i	T135/70 D16 Tubeless Trunk room					
Brakes	Parking							
Type of contro	<b>.</b>		Hand operated parking lever					
Location of co	introl		Right side of driver's seat on the floor					
Operates on			Rear wheel					
	Type (internal or	enternal)	-					
If separate from service	Orum diameter							
brakes	Lining size (lengt width x thickness							
•								

Cartine	Mazda	RX-7			
Model Year	1986 -	issued Dec	<u>/85</u> Revis	sed (•)	_

Body Type And/Or Engine Displacement

Steering		<del> </del>		
lariual (std.,	opt, n.a.)			Std.
ower (std., o	ot.n.e.)			Opt.
djustable teering when	4	Type and dec	ecription	
(tilt, awing, other) (Sid., opt., n.a.)		<b>a</b> )	N.A.	
Mheel diame	ler_	Manual		Urethane: 380 mm, leather: 382 mm
(W9) SAEJ1100		Power		Urethane: 380 mm, Leather: 382 mm
	Outside	Wall to wall (	1. & r.)	-
Turning diameter m (fL)	tront	Curb to curb	(L&r.)	•
	Inside	Wall to wall (	1. & r)	
	rear	Curb to curb	(l. & r.)	
Scrub Redius	*			-
Туре			Rack & pinion	
	Geer	Make		KOYO JIDOKI
Manual			Gear	
	[ ]	Retice	Overall	
	No, wheel turns (stop to stop)		stop)	3.6
	Type (coaxial, linkage, etc.)		MC.)	-
	Make			NIPPON SEIKO
	Goer	Туре		Rack & pinion
Power		Ratios	Gear	
		PARKOS.	Overall	-
	Pump (drive)		•	<b>-</b> :
	No, wheel turns (stop to stop)			2.7
	Туре	Гуре		-
Linkage	Location of wheels	(front or rear i, other)		-
	Tie rods (	one or two)		
	Inclination	n at camber (d	eg.)	-
Steering		Upper		-
auris .	Bearings (type)	Lower		•
	(17,174)	Thrust		
Steering spi	ndle & joint ty	pe		-
	1	Inner beerir	ng	
Wheel	Diameter	Outer bear	ng	-
spindle	Thread (s	size)		
	Bearing (	henel		

<sup>&</sup>quot;The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

Mazda RX-7 Issued Dec./85

**METRIC (U.S. Customary)** 

Body	Type	And	Or
Engin	o Disp	place	ment

0.654 x 2 Liters

	Service	Caster (deg.)	
	checking	Camber (deg.)	_
	<u> </u>	Toe-in (outside track-mm (in.))	
ront	Service	Caster	4° 40¹
rheel at urb mass	reset"	Camber	0° 20'
(wt)	[	Toe-in	3 ± 3 mm
	Periodic M.V. in- spection	Caster	-
		Camber	-
		Toe-in	***
	Service	Camber (deg.)	-
Rear	checking	Toe-in (outside track-mm (in.))	- • •
vheel at	Service	Camber	-
CUITO MASS (WL)	reset	Toe-in	▼
•	Penodic · M.V. in-	Camber	=
-	spection	Toe-in	=

Electrical - Instruments and Equipment

Soeed-	Tipe	Magnetic torque drive			
ometer	Trip adometer (std., opt., n.a.)	Std.			
GR mainten	snce indicator	_			
Charge	Type	Light			
ndicator	Warning device	-			
emperature	Type	Bi-metal			
ndicator	Warning device	<u>-</u>			
Dil pressure	Туре	Light			
indicator	Warning device	-			
ruel .	Туре	Bi-metal			
ndicator	Warning device				
	Type (standard)	Electric, 2 speed with intermit.			
Mind- shield	Type (optional)				
wper	Blade length				
	Swept area [cm²(in.²)]	-			
Wind-	Type (standard)	Electric pump			
ihield vasher	Type (optional)	-			
	Fluid level indicator	-			
tom	Туре	Electric			
	Number used	2			

Car Line	Mazda	RX-7	<del>-</del>		* ,
Model Year_	1986	Issued	Dec./85	Revised (*)	-

METHIC	(บ.ร. ต	istomary)		
Engine Description/Carb. Engine Code		<b>ts.</b>	0.654 X 2 Liters	
Electrical	I — Supph	v Svstem	•	
		•		<del></del>
	Make Make	(0.4)	50D2OL . 65D23L	
	Model, std. Voltage	. (ODL)	50D2OL , 65D23L	·
_		F cold crank	124	
Battery	<del></del>	serve capacity		<del></del>
	Amp/hrs		50Ah . 55Ah .	
	Location		Left front engine comp.	
	Type and r	ating	12V-70A	
Generator or	Ratio (att.	craniurev.)	1: 2.08	
akemetor	Optional (t	ype & rating)		<del></del>
Regulator	Туре		_	
Electrica	l – Startir	ng System		
Start, motor	tart, motor Current drain at 0°F		-	
			Pre-engaged drive	
Motor drive			Rear .	
Electrica	i – Ignitic	on System		
Туре	Electronic	(std., opt., n.is.)	Std.	•
	Other (spe	city) ·		
	Meke		NIPPON DENSO	
Coit	Model		029700-6320	
	Current	Engine stopped – A	-	
	<b>!</b>	Engine idling – A		
	Make	·	NGK NIPPON DENSO	
	Model		SD10A, SD11A S-29A, S-31A	
Sperit plug	Thread (m	<del></del>	12 10 17	
,	Tightening torque (N-m (lb, ft))  Gep  Number per cylinder		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	·
			2.0 = 0.3	
Distributor	istributor Maile Model		_	<del></del>
URRIGUED			-	<del></del>
Electrica	ıl – Suppr	ression	•	
Locations &	type		High tension cord, Spark plug	

Cartine	Mazda RX	<u>7</u>	٠.	•	. , .
Model Year _	1986	Issued Dec./85	_ Revised (e)		
_			• •		

METRIC (U.S. Customary)

Body Type  Body		ļ					
			2 door Coupe				
Structure	· .						
Bumper system front - rear			_				
Anti-corrosion treatment			· -				
	liscellaneous	····					
Type of finish	Type of finish (lacquer, enamel, other)		<u>-</u> .				
Hood	Hinge location (fr		Rear				
	Type (counterba		<u> </u>				
_	Type (counterba	(internal, external)	Internal				
Trunk lid	<del></del>	control (elec., mech., n.a.)	Mech.				
	Type (counterba		Medi.				
Hatch- back lid		control (elec., mech., n.a.)	Mech.				
			<b>-</b> -				
			-				
	control (cranit.	Front	N.A.				
friction, pivot, power)		Rear	N.A				
Seet cushion type (e.g., 60:40, bucket, bench, wee, formetc.)		Front	Spring				
		Rear	Foamed urethane				
		3rd seet	N.A.				
Seat back typ	<b>De</b>	Front	Spring				
(e.g., 60/40.)	bucket, bench, c.)	Rear	Foamed urethane				
	<del></del> -	3rd seat	N.A.				
	·						

MVMA-C-86

MVMA Specifications	Form	•	CarLine	Mazda
	. 01111		Model Year_	1986
Passenger Car METRIC (U.S. Customary)			-	

CarLine	Mazda 1	RX-7		
Model Year_	1986	Issued Dec . /85	Revised (	)

				<del></del>	
Sody Type	•		2 door Coupe		
Restraint	System			·	
Active	Standard/optional		Std.	•	
restraint system	Type and description		Type 1 & Type 2 seat belt	assembly	
	Location		Front : Type 2 seat belt a Rear : Type 1 seat belt a	ss'y	
	Standard/optional		N.A.		
Passive seat belts	Power/manual		-		
	2 or 3 point		-		
	Knee barrlap beit		-		
Frame					
Type and deed unitized frame	ription (separate frame partially-unitized frame	•) -	. <del>-</del>	•	
Glass	·	SAE Rel.No.		· · · · · · · · · · · · · · · · · · ·	
Windshield gla surface area (c	ss exposed in <sup>2</sup> (in, <sup>2</sup> )}	Sı	<del>-</del>		
Side glass exp area (cm² (in,²)	osed surface ] - total 2-sides	83			
Bacidight glass surface area (c	exposed m²(ir.²)]	33	-		
Total glass exp ares (cm² (in.²)	oeed surface ]	<b>S4</b>			
Windshieldgla	es (Type)		_		
Side glass (typ	•)				
Sacklight glass	(type)			•	

: 11:

Car Line	Mazda	RX-	7			•	•
Model Year.	1986	, ,	Issued Dec./85	Revise	d (e) _		
	_						

Jody	Type

2 door Coupe

ir conditioning uto, temp com	(menuel, trol)	Opt.
lock (digital, a		Opt. (digital)
ompass / the		_ `
onsole (floor,		Std.(floor)
efroster, elec		Std.(R. defroster)
	Diagnostic warning (Integrated, individual)	
	Instrument cluster (list instruments)	
	Keyless entry	-
Sectronic	Tripminder (avg. spd., fuel)	
	Voice alert (list iterns)	-
	Other	
		-
fuel door look	(remote, key, electric)	Std. (remote)
	Auto head on / off delay, dimming	Atd.
	Cornering	
	Courtesy (map, reading)	Opt.(map light)
	Door lock, ignition	Opt.(key illumi.)
	Engine compartment	N.A.
Lamps	Fog	N.A.
	Glove compartment	Std.
	Tounk	Opt.
	Other	-
	0.0	-
	Dayrright (auto, man.)	Opt.(manual)
	L.H. (remote, power, heated)	Opt.(auto./manual)
Mirrors	Fl. H. (corrvex, remote, power, heated)	Opt.(auto./manual)
	Visor venity (RH / LH, illuminated)	Opt.(RH)
Partring brake	-auto release (werning light)	-
T day or and	Door tocks / deck lid - specify	N.A.
	Seet (2-4-6 wey)	Std. (reclining)
	heeted (driver, pass, other) lumber, hip, thigh support (power, manual)	Opt.(lumber/driver)
_	recianng (driver, pass) memory (1-2 preset, reciine)	Opt.(seat lifter/driver)
Power equipment	Side windows	Opt
•	Vent windows	N.A.
	Rear window	N.A.
	The minor	17 • 41 •
	Antenna (location, whip, w/shield, power)	Std.
Radio systems	AM, FM, stero, tage; CB	J.C.
.,	Speaker (number, location) Premium sound	
Operation of		Opt.(sliding roof)
Roof open air/fixed (flip-up, stiding, "T") Speed control device		
	<del></del>	Opt.
	ng device (agric, buzzer,elic.)	
Tachometer (	(rpm)	Std.
	1	Std. (steering lock)
Theft protect	ion-type	Opt.(theft deterrant sysytem)

### MVMA Specifications Form

Passenger Car ...

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

CarLine Mazda RX-7
Model Year 1986 Issued Dec./85 Revised (e)

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 J1 100 "Motor Vehicle Dimensions," unless otherwise specified.

	BAE	
	Ref.	2 door Coupe
Body Type	No.	
Width		
Tread (front)	W101	1450 mm
Treer (reer)	W102	1440 mm
Vehicle width	W103	1690 mm
Body width at Sg RP (front)	W117	
Vehicle width (front doors open)	W120	
Vehicle width (reer doors open)	W121	
Front fender overall width	W106	
Rear fender overall width	W107	
Tumble-home (deg.)	W122	
Length.		
Wheelbase	L101	2430 mm
Vehicle length	L103	4290 mm
Overhang (front)	L104	
Overhang (rear)	L105	<del></del>
Upper structure length	L123	
Rear wheel C.L."X" coordinate	L127	
Cowl point "X" coordinate	L125	
Front and length at centerline	L126	•
Rear end length at centerline	L129	
Height*		
Passenger distribution (tront/rear)	P01.2.3	
Trunk/cargo load	1 - 1 -	
Vehicle height	H101	1265 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*	1	
Front bumper to ground	H102	
Rear bumper to ground	H104	
Bumper to ground (front at curb mass (wL))	нтоз .	
Bumper to ground (reer at curb mass (wt.))	H105	
Angle of approach (degrees)	H106	
Angle of departure (degrees)	H107	
Remp breakover angle (degrees)	H147	
Axle differential to ground (front / rear)	H153	
Min. running ground clearance	H156	

<sup>\*</sup> All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified.

Manufacturers Design Load Weight is defined with indicated passenger distribution and trunkcargo load.

Mazda RX-7 Car Line \_ 1986 | Issued | Dec./85 Revised (\*) Model Year.

-	_	
	/11 A	<b>Customary</b> )
MEINIC	1U.S.	LUSTOMATVI
	1-1-1	,,
^	D-4-	Dimensions

SAE Ref. No.   2 door Coupe	· 17 (1
Ref. No. 2 door Coupe  Front Compartment  Sg RP front, "X" coordinate L31  Effective head room H61  Max. etf. leg room (accelerator) L34 946 (934) mm () with S/R  SgRP to heel point H30 1105 mm	
Front Compartment  Sg RP front, "X" coordinate  Effective head room  Max. ett. leg room (accelerator)  L34  SgRP to head point  H30  105 mm	1
Front Compartment   L31	•
Sg RP front, "X" coordinate         L31           Effective head room         H61           Max. ett. leg room (accelerator)         L34         946 (934) mm () with S/R           SgRP to head point         H30         1 105 mm	
Sg RP front, "X" coordinate         L31           Effective head room         H61           Max. ett. leg room (accelerator)         L34         946 (934) mm () with S/R           SgRP to head point         H30         1 105 mm	
Sg RP front, "X" coordinate         L31           Effective head room         H61           Max. ett. leg room (accelerator)         L34         946 (934) mm () with S/R           SgRP to head point         H30         1 105 mm	
Effective head room         H61           Max. ett. leg room (accelerator)         L34         946 (934) mm () with S/R           SgRP to head point         H30         1 105 mm	
Effective head room         H61           Max. ett. leg room (accelerator)         L34         946 (934) mm () with S/R           SgRP to head point         H30         1 105 mm	,
SgRP to heel point H30 1 1 0 5 mm	
SgRP to heel point H30 1 1 0 5 mm	
	** * *
Back angle L40	
Hip angle L42	
Kneeangle L44	
Footangle L46	
Design H-point front travel L17	<del></del>
Normal driving & riding seat track trvi. L23	<del></del>
Shoulder room W3 1340 mm	<del></del>
Hiproom W5 1380 mm	
Steering wheel maximum clameter W9	<del></del> -
Steering wheel angle H18	<del></del>
Accel. heel pt. to steer, whil. critz L11	
Accel, heel pt. to steer, whil. cntr H17	
Steering wheel to C/L of thigh H13	
Steering wheel torso degrance U.7	
Headlining to roof panel (front) H37	
Undepressed floor covering thickness H67	
Rear Compartment	<u> </u>
Sg RP Point couple distance L50 50.7 mm	
Effective head room HS3 839 mm	
Min. effective leg room L51	
Sg RP (second to heel) H31	
Kneeclearance L48	
Compertment room L3	
Shoulder room W4	
Hip room W6	
Upper body opening to ground HS1	
Back angle L41	
Hip angle L43	
Knee angle L45	
Footangle L47	
Headfining to roof panel (second) H38	
Depressed floor covering thickness H73	
Optromot noor covering tracement 1773	
Luggage Compartment	
Usable luggage capacity (L(cu.ft.)) V1 104 Liters	· · · :
	. ·
Interior Volumes (EPA Classification)	
Vehicle class (subcompact, compact, etc.)	<del></del>
Interior volume index (cu. ft.)	<del></del>
Trunti/cargo index (cu. ft.)	<del></del>

### **MVMA Specifications Form**

Cartine Mazda RX-7 1986 ,

Issued Dec./85 

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

-	-	
Body Type	SAE Ref. No.	2 Door Coupe
Station Wagon - Third Seat		N.A.
Sg RP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	LB6	
Effective head room	H66	
Sg RP to heel point	H67	
Knee clearance	LB7	
Seat facing direction	SD1	
Back angle	LBB	
Hip angle	L89	
Knee angle	L90	
Footangle	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)	1203	
Cargo length at belt (front)	L204	<u></u>
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	<u></u>
Opening width at belt	W204	
Mex. rear opening width above belt	W205	
Cargo height	H201	
Regropening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [m³(ft.³)]	V2	
Hidden cargo volume [m³(ft.²)]	V4	
Cargo volume, index-rear of 2-seat	V10	
Hatchback - Cargo Space		N.A.
Cargo length at front seatback height	L200	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	1210	
Cargo length at floor (second)	1211	
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index (m²(ft.²))	V3	
Hidden cargo volume [m²(fL²)]	V4	
Cargo volume index-rear of 2-seat	V11	
Aerodynamics*		
Wheel lip to ground, front	1	
Wheel lip to ground, rear	<del> </del>	
Frontal area (m²(ft²))	+	
Dreg coefficient (Cd)	<del> </del>	*

EPA Loaded Vehicle Weight, Loading Conditions

# **MVMA Specifications Form**

Car Line	Mazda RX-	7·			 
Model Year_	1986	Issued	Dec./85	Revised (*)	

Pass METRIC	enge c (v.s.	er Car . Customary)	Issued Dec. 703 Revised (•)
lody Type	• [	2 Door Coupe	
/ehicle	Fiducia	el Marks	
iducial Ma lumbér	rk	Define Coordin	ate Location
<sup>e</sup> ront			•
Rear			
Fiducial Mark Number			·
	W21		
Ì	L54		
Front	H81		
	H161 H163		
			•
	W22		
	LSS HB2		
Rear	H62		
	H164		
	•		as Talaction

<sup>\*</sup> Reference - SAE Recommended Practice, J162, Motor Venicle Fiducial Marks.

Car LineMazda	RX-7		· ·
Model Year 1986	Issued Dec./85	Revised (•)	

•		f		
Body Type			2 door Coupe	
Lamps and	Headlemp Si	lape*		
	Headlamp	Highest**	697 - 707 mm	
• •	(SAE - H127)	Lowest	<del>-</del>	_
Height above ground to center of bulb	Taillamp	Highest**	763 - 770 mm	
or marker	(SAE - H128)	Lowest	<u>-</u>	_
	Sidemarker	Front	464 - 474 mm	
		Rear	494 - 501 mm	
	Heedlamp	Inside		
		Outside**	<b>→</b>	
Distance from C1 of car to	Taillamp	Inside	-	
center of bulb		Outside**		_
	Directional	Front	-	
		Rear		
<del></del> -				
Halonan	-Lo beem		Opt.	_
Halogen headlamp	Hi beam		Opt	-
(std., opt., n.a.)	Replaceable	bulb		
Shape			**	
	Lo beam			_
Headlamp	Hi beam			_
Other than above	Replaceable		-	_
•	Shape			_
<del></del>	Туре		Type 2B1	

Measured at curb mass (weight), It single tamps are used enter here

Car Line	Mazda				•,	 • = }
Model Year	1986	Issued	Dec./85	_ Revised (•)		

METRIC (U.S. Customary)

		,		Vehicle M	lass (wo	eight)		
Mada	Cui	CURB MASS, kg. (weight, fb.)*		% PASS. MASS DISTRIBUTION				· ·
Model				Pass In Front		Pass In Rear		SHIPPING MASS, kg (weight, lb.)"
	Frant	Rear	Total	Front	Rear	Front	Rear	(wed)n, to.)
RX-7 2 Seater	<del> </del>			41.7	58.3		<del> </del>	
	1			41./	20,3		<del> </del>	
M5	610	580	1190			·	<del> </del>	
A4	635	590	1225		<u>"-</u>			• .
212 Cookers	-	<u> </u>						
2+2 Seater				41.7	58.3	16.7	83.3	
M5	610	580	1190	-		· ·		<del></del>
A4	640.	595	1235	<del> </del>			<del> </del>	
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<sup>\*</sup> Reference — SAE J1100 Motor vehicle dimensions, curb weight definition. \*\* Shipping mass (weight) definition —

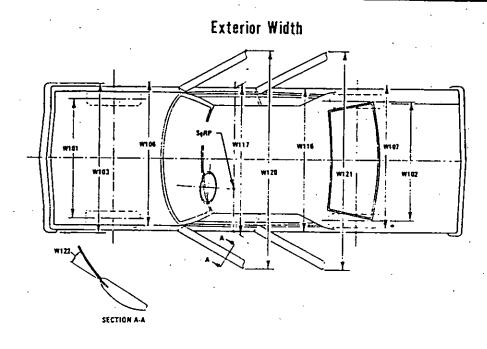
Car Line	mazda	- KA-7			
Model Year_	1986.	Issued	Dec./85	Revised (*)	e e e

METRIC (U.S. Customary)

		Oį	ptional Equi	ipment Differential Mass (weight)*
	M	ASS, kg. (weig	M. Ib.)	
Equipment	Front	Rear	Total	Remarks
Air conditioning	39	0	20	
Power steering	28.2	-0.2	39	<u> </u>
Vandleme elegan			28	<u> </u>
Headlamp cleaner Tilt steering Side protector	19 2.7	-3 1,3	<u>16</u>	
Side protector	1.3	1.7	3	
Sun roof	9	21	30	
Storage box	2	7	9	
205 Tire, 15" Wheel.		· · · · · · · ·		
205 Tire, 15" Wheel, 15" Brake & Master V.	10.5	17.5	28	·
Rear wiper	-1.3	7.3	6	<u> </u>
Power window	1	1	2	
Auto-speed control	2.3	0.7	3	
Low-back sea & trim	1.5	3.5	5.	
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<sup>&</sup>quot;Also see Engine - General Section for dressed engine mass (weight).

### Exterior Car And Body Dimensions - Key Sheet



Exterior Length & Height

125

1125

1125

1125

1125

1125

1125

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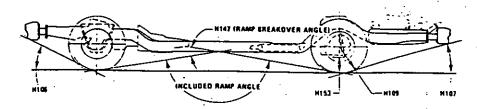
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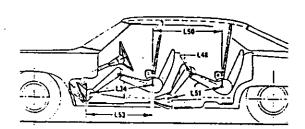
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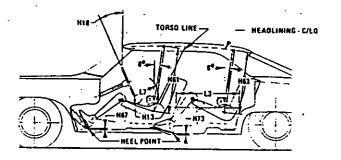
1125

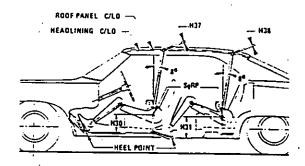
### Exterior Ground Clearance

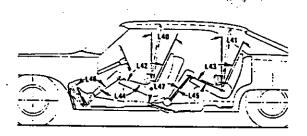


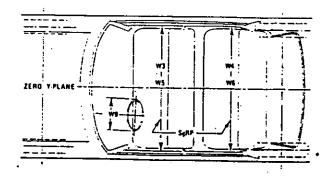
### Interior Car And Body Dimensions—Key Sheet

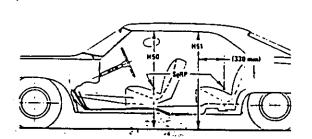






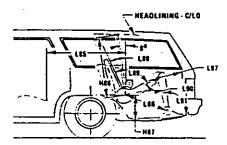






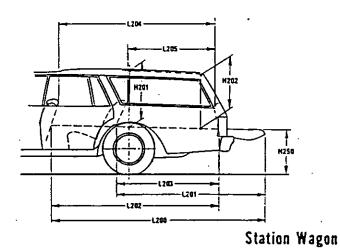
### Interior Car And Body Dimensions - Key Sheet

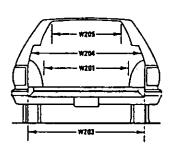
Third Seat





Cargo Space





Hatchback

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 moidings.

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.

on only one side, this dimension is to the zero "Y" plane.

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 axies, 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.

METRIC (U.S. Customary)

Interior Car And Body Dimensions - Key Sheet **Dimensions Definitions** 

- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- REAR BUMPER TO GROUND CURB MASS (WT.), Measured in the same manner as H104.
- ANGLE OF APPROACH. The angle measured between a H106 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.
- 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
- REAR AXLE DIFFERENTIAL TO GROUND. The minimum H153 dimension measured from the rear axle differential to ground.
- MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

#### Glass Areas

- S1
- **S2** Side windows area. Includes the front door, rear door, vents. and rear quarter windows on both sides of the vehicle.
- 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.
- "Z" coordinate. H81
- H161 Height "Z" coordinate to ground at curb weight.
- Height "Z" coordinate to ground. H163
- Fiducial Mark Number 2
- L55 "X" coordinate.
- "Y" coordinate. W22
- W82 "Z" coordinate.
- Height "Z" coordinate to ground at curb weight. H<sub>162</sub>
- 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
- DESIGN H-POINT-FRONT TRAVEL. The dimension mea-L17 sured horizontally between the design H-point-front in the foremost and rearmost seat track positions.
- NORMAL DRIVING AND RIDING SEAT TRACK LEVEL. L23 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.
- SgRP-FRONT, "X" COORDINATED. L31

- 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.
- KNEE ANGLE-FRONT. The angle measured between thigh L44 centerline and lower leg centerline measured on the right leg.
- FOOT ANGLE-FRONT. The angle measured between the L46 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
- SgRP-FRONT TO HEEL. The dimension measured hori-L53 zontally from the SgRP-front to the accelerator heel point.
- SHOULDER ROOM-FRONT. The minimum dimension W3 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.
- H<sub>13</sub> 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
- ACCELERATOR HEEL POINT TO THE STEERING H17 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.
- HEADLINING TO ROOF PANEL-FRONT. The dimension **H37** 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.
- EFFECTIVE HEAD ROOM-FRONT. The dimension mea-H61 sured along a line 8 deg, rear of vertical from the SgRP-front to the headlining plus 102 mm (4.0 in.).
- COVERING THICKNESS-UNDEPRESSED-**H67** FLOOR 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

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 cusmon.

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 cenerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of front seat-back minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM—SECOND. The dimension measured along a line from the ankle pivot center to the SgRP—second plus 254mm (10.0 in).
- W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP—second at height between 254-406 mm (10.0-16.0 in.) above the SgRP—second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND. Measured in the same manner as W5.
- H31 SgRP-SECOND TO HEEL The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51 UPPER BODY OPENING TO GROUND—SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in) forward of the SgRP—second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in).
- H73 FLOOR COVERING—DEPRESSED—SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.
- PD2 PASSENGER DISTRIBUTION-SECOND.

#### **Luggage Compartment Dimensions**

- V1 USABLE LUGGAGE CAPACITY-Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

### Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The interior volume index estimates the space in a car. It is based on four measurements – head room, shoulder room, hip room, and leg room – for the front and rear seats, plus trunk capacity. The interior volume index is an estimate of the size of the passenger compartment,

The Trunk/Cargo Index is an estimate of the size of the trunk/cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat.

### Station Wagon - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second the 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. Mesured in the same manner as L41.
- L89 HIP ANGLE-THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE-THIRD. Measured in the same manner as L45.
- L91 FOOT ANGLE-THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM-THIRD. Measured in the same manner as W4.
- W86 HIP ROOM-THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM—THIRD. The dimension, measured along a line 8 deg. rear from the SgRP—third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- PD3 PASSENGER DISTRIBUTION-THIRD.
- SD1 SEAT FACING DIRECTION-THIRD.

### Station Wagon - Cargo Space Dimensions

- L200 CARGO LENGTH-OPEN-FRONT. The minimum dimension measured longitudinally from the back of the front seat-back at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- 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.
- CARGO LENGTH-CLOSED-FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons; trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH-CLOSED-SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT—FRONT. The minimum dimension measured horizontally from the back of the front seat-back at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to he foremost normal surface of the closed talkgate arche height of the bett, 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.

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet Dimensions Definitions

W203	REAR OPENING WIDTH AT FLOOR. The minimum dimen-
	sion measured laterally between the limiting interferences of
	the rear opening at floor level.
WOOM	BEAD ODCAHAO MIDTH AT DELT TO

/204 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 lop of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

V2 STATION WAGON Measured in inches:

Measured in mm:

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:

Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = m^3 \text{ (cubic meter)}$$

V6 TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:

Measured in mm:

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

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:

Measured in mm:

H201 x L205 x 
$$\frac{W^4 + W201}{2}$$
 = m<sup>3</sup> (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

$$\frac{1208 + 1209}{2} \times W4 \times H197 = ft^3$$

Measured in mm<sup>-</sup>

$$\frac{L208 + L209}{2} \times W4 \times H197$$
= m<sup>3</sup> (cubic meter)

V4 HIDDEN LUGGAGE CAPACITY—REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard larggage 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:

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

Measured in mm:

$$\frac{L210 + L211}{2} \times W4 \times H198$$
= m<sup>3</sup> (cubic meter)

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