MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1991

Mänufacturer

Mazda Motor Corporattion

Mailing Address

3-1, Shinchi, Fuchu-cho Akigun, Hiroshima, Japan Vehicle Line

Mazda RX-7

issued Oct./190 Revised

Direct questions concerning these specifications to the manufacturer listed above.

The information contained herein is prepared, distributed by, and is solely the responsibility of the vehicle manufacturing company to whose products it relates. This suggested specification form was developed by the vehicle manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

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

METRIC (U.S. Customary)

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NOTE:

- 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.
- Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

METRIC (U.S. Customary)

Vehicle LineMazda	RX-7	•
Model Year	IssuedOct./'90 Revised (·).	56

Vehicle Origin

Design & development (company) - Mazda Motor Corporation	<u> </u>
Where built (country) Japan	
Authorized U.S. sales marketing representative Mazda Motor of America Inc.	

Vehicle Models

40.042.25

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Migr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. TrunivCarço Load-Kilograms (Pouncs)
Mazda RX-7 (RWD)				
2-Door Coupe	,		2/0 or 2/2	
2-Door Convertibl	le		. 2/0	

 Vehicle Line
 Mazda RX-7

 Model Year
 191
 Issued
 Oct./190
 Revised (1)

METRIC (U.S. Customary)

Power Teams

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

						
		•	A	B	С С	D
NE	Engine Code		13B (SI)	←	13B (Turbo)	
	Disolacement Liters (in ³)		.0.654 x 2		·	
	Induction system (FI, Caro, etc.)		FI		←	, .
ENGINE	Compression ratio		9.7	←	9.0	,
	SAE Nei	Power kW (bhp)	160HP/7000rpm		200HP/7000rpm	
	at RPM	Torque N • m (tb. ft.)	1401b-ft/4500rpm		195 lb-ft/4000rpm	
	Exhaus single,		Dual		-	•
SN	Transm Transa	rission/ xle	5MT	4AT	5MT	
TRANS	Axle Ra (std. fir:		3.475	2.841	3.843	

	Series Availability	Power Teams (A - B - C - D)			
Model	Code	Standard	Optional		
Mazda RX-7	2-Door Coupe	A	В , С		
Mazda RX-7	2-Door Convertible	A	. В		
					
			•		

MVMA Specifications		Vehicle Line	Mazda				
METRIC (U.S. Customary)		Model Year	91	Issued <u>Oct</u>	1: 90 Revised (*)	,	
	(sotomary)				•		
Engine Desc Engine Code		EGI			Turbo		
ENGINE -	- GENERAL						
Type & descrip	otion (inline, V. angle,						
flat, location, he transverse, lor	ont, mid, rear, politudinal, sono, done	Rotary Engine				•	
onv, nemi, wec	Sge, pre-chamber, etc.)	2 rotors, Longi	tudinal				
Manufacturer	\\	Mazda	· · · · · ·				
No. of cyfinder	·	2-rotors					
Bore		105 x 15 x 80 m					
Stroke.			111				
Bore spacing (C/L to C/L)					<u>. </u>	
Cylinder block	material & mass-kg (lbs.) (machined)		-				
Cylinder block					· · · · · · · · · · · · · · · · · · ·		
Cytinder block				 	<u>-</u>		
Deck clearance (above or below	(minimum) v block)				· .		
Overvier head r	naterial & mass kg (lbs.)				<u> </u>	: .	
	olume (cm²)	Rotor housing :	Aluminu	m alloy			
Cylinder liner m							
							
Head gasket thi (compressed)	ckness						
Minimum combi total volume (cr	ustion chamber ਜੀ)	75		· · · · · · · · · · · · · · · · · · ·	81		
Cyl. no_system (front to rear)*	L. Bank	-			· - · - · - · · · · · · · · · · · · · ·	·	
	- R. Bank						
Fining order		1-2				 	
	material & mass [kg (fbs.)]**			· · · · · · · · · · · · · · · · · · ·			
	d material & mass [kg (lbs.)]**						
	ieaded, diesel, etc.	Unleaded					
Fuel antiknock is	ndex (R + M) + 2	_			·		
	Quantity	<u> </u>					
Engine mounts	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	-			<u>. </u>		
	Added isolation (sub-frame, crossmember, etc.)	_					
Dia! dressed engine mass (wt) dry***						·	
Engine - P							
Aaterial & mass.						<u> </u>	
weight, oz.) - pis		Rotor material :	Cast ir	on			
Engine - C	amshaft N/A						
scation		_					
Aaterial & mass l	kg (weight, bs.)			· · · · · · · · · · · · · · · · · · ·	·		
Orive type	Chain / bett				· · · · · · · · · · · · · · · · · · ·	·	
1700	Width / pitch	 					

^{*} Rear of engine — drive takeoff, View from drive takeoff end to determine left & right side of engine,

[&]quot; Finished state.

^{***} Dressed engine mass (weight) includes the following:

MVMA Specifications				Vehicle Line	M	lazda RX-	-7	•	•
	, ope	Jiiications		Model Year	'91	Issued		190 Revised (-)	
METRIC (U.S. Customary)				_	•				
Engine Cod			EGI					Turbo ·	
Engine -	- Valve S	ystem N/A					,		74"
Hydraulic lift	ers (sid., opt.,	, NA)		•					
Valves	Number in	nake / exhaust	_						
	Head O.D	, intake / exhaust							·
Engine -	- Connec	ting Rods N/A		•			-	-	
Material & m	iass [kg., (wei	ght (bs.))*	1 _	<u></u> -		· · · · · · · · · · · · · · · · ·	·		
Length (axes	s € to €) mm		_					· · · · · · · · · · · · · · · · · · ·	
Engine -	- Cranksl	naft					=		
Material & m	ıass (kg., (wei	ght, ibs.)j*	Special	steel	.				<u> </u>
End thrust ta	ken by bearin	g (no.)	1 . 2		• • • • • • • • • • • • • • • • • • • •				· · · · · · · · · · · · · · · · · · ·
Length & nur	mber of main I	bearings	<u> </u>						
Seal (materi	al, one, two	Front	<u> </u>						
piece design	, etc.)	Rear	<u> </u>						•
gine -	- Lubrica	tion System		·					
Normal oil pr	essure [kPa (psi) at engine rpm)	<u> </u>						
·	ke (floating, st		Station					· · · · · · · · · · · · · · · · · · ·	
	em (full flow, p			ow cartridg	ge				
Capacity of c	/case, less filt	er-refill-L (qt.)	4-4 L						
Engine -	- Diesel Ir	nformation N/	Α			-			
Diesel engine	e manufacture	<u> </u>				·			
Glow plug, ca	urrent drain at	of	<u> </u>						
Injector	Type	· · · · · · · · · · · · · · · · · · ·	-			•			
nozzie		ressure [kPa (psi)]	<u> </u>	<u> </u>				-	
Pre-chamber	design		- '					:	
Fuel in-	Manufactu	rer			<u> </u>				
ection pump	1 1/2		<u> </u>						
		belt, chain, gear)		<u>·</u>			·	· · · · · · · · · · · · · · · · · · ·	
	ry vacuum so	urce (type)		<u></u>					
Fuel heater-(; Water separa *** , opt.)	yes/no) Itor, descriptio	ń	-	•		<u>. </u>	- ,		
									•
o manuta			-			 			
Dil cooler-type (oil to engine coolant; bil to ambient air)				_	_			•	
Oil filter									
Engine -	intake S	ystem							
iurbo charge	r - manufactul	rer	_				1	HITACHI	
oper charge	r - manufactu	rer .	N/A				· · · · · · · · · · · · · · · · · · ·		
		· - i							

^{*} Finished State

Vehicle Line <u>Mazda RX-7</u>
Model Year <u>'91</u> Issued Issued Oct. / 190 Bevised (4)

METRI	C (U.S. Customary)		HeAlzec (-)				
Engine De	scription	For	<u></u>				
angine co		EGI	Turbo				
Engine -	- Cooling System						
Coolant reco	overy system (std., oot., n.a.)	Std.	- <u>-</u>				
Coolant 5fl k	ocation (rad., bottle)	i Rad.					
Radiator cad	relief valve pressure [kPa (psi)]	1 73-103 kPa					
Circulation	Type (choke, bypass)	Wax, Bottom bypass					
mermostat	Starts to open at "C ("F)	80.5-83.5°c		<u> </u>			
	Type (centrifugal_other)	Centrifugal impeller .	· · · · · · · · · · · · · · · · · · ·				
	GPM 1000 pump rom	-					
	Number at purnos	1					
Water	Drive (V-belt, other)	V-belt					
By-pass recircu Cling n c., city Water jackets the	Bearing type	Ball bearing					
	Impeller material	-					
	Housing material	-					
By-pass recir	rculation (type (inter., ext.))	Ext.					
Jen4ng '	With heater - L(qL)	7.3 L	8.7 L	- 			
t n	· With air conditioner - L(qL).	8.7 L	0.7 L				
	Opt. equipment (specify – L(qL))	N/A					
	full length of cyl. (yes, no)	Yes					
	und cylinder (yes, no)	Yes					
Water jackets open at head face (yes, no)		_	· · · · · · · · · · · · · · · · · · ·				
	Std., A/C, HD	_					
	Type (cross-flow, etc.)	Vertical flow					
Radiator	Construction (fin & tube mechanical, braze, etc.)	Tube & Fin					
Engine Cod Engine — Coolant recov Coolant 5fl loc Radiator cap a Circulation mermostat Water pump By-pass recirc Condition Condition Radiator and aroun Water jackets a Radiator core Radiator and ta	Material, mass (kg (wgt., bs.))	_	<u></u>	_ 			
•	Width	561.8 mm					
	Height	415 mm		 -			
Mater pump By-pass recirc T-fing The models of the material around water jackets of the material around water jackets of the material around the	Thickness	25 mm					
	Fins per inch	16.9					
Radiator end t	ank material	Resin	<u> </u>	`` ;			
	Sid., elec., opt.	Std.					
	Number of blades & type (flex, solid, material)	10	•				
	Diameter & projected width	390 mm					
	Ratio (fan to crankshaft rev.)	1.22		- 			
an	Fan cutout type	Fluid coupling					
	Drive type (direct, remote)	Belt drive					
•	RPM at idle (elec.)						
•	Motor rating (wanaçe) (elec.)	_					
	Motor switch (type & location) (elec.)	_	 				
	Switch point (temp., pressure) (elec.)	_	<u> </u>				
	Fan shroud (material)			<u>:</u>			
							

•		e en en en en
MVMA	Specifications	Vehicle Line Mazda RX~7
		Model Year 91 Issued Oct./ 90 Revised (-)
METRIC	(U.S. Customary)	totises ()
Engine Desc Engine Code		All models
Engine -	Fuel System (See supplem	nental page for detailes of Fuel Injection, Supercharger, Turbocharger, etc. if used)
Induction type: injection system	carburetor, fuel	Fuel injection
Manufacturer		
Carburetor no.	of barrels .	
idle A/F mix.		
	Point of injection (no.)	2
Fuel injection	Constant, pulse, flow	Pulse
•	Control (electronic, mech.)	_
	System pressure [kPa (psi)]	_
ldle spdrpm	Manual	750 rpm
(spec. neutral or drive and		
propane if used)	Automatic	750 rpm
Intake manifold or water therms	heat control (exhaust ostatic or fixed)	
deaner type		Wet type
Fuel filter (type	flocation)	Paper element
	Type (elec. or mech.)	Impeller
Fuel pump	Location (eng., tank)	Tank
	Pressure range (kPa (psi))	490-637 kPa
· .	Flow rate at regulated pressure (L (gat)/tir @ kPa (psi))	135-195 [L/hr] @ 294 kPa
Fuel Tank		
Capacity (refill (. (gallons))	70 L (18.5 gallons)
Location (describe)		Under trunk floor
Attachment		Strap
Material & Mass	(kg (weight lbs.))	Steel
Filler	Location & material	Right side of rear fender
pipe	Connection to tank	Rubber hose
Fuel line (mater	ial)	Steel pipe & Rubber hose
Fuel hose (mate	erial)	Rubber

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Return line (material)

Vapor line (material)

Extended range lank

Auxiliary tank Opt., n.a.

Opt., n.a.

Capacity (L. (gallons))
Location & material
Anachment

Capacity [L (gallons)]

Selector switch or valve Separate fill

Attachment

Steel hose & Rubber hose

Steel hose & Rubber hose

• - -

N/A

N/A

MÝM	A Spe	cifications	Vehicle LineMazda_RX-7	
	METRIC (U.S. Customary)		Model Year <u>i 91</u> Issued <u>Oc</u>	t./' 90 Revised (·)
METRI				
Engine De Engine Co			- EGI	Turbo
Vehicle	Emission	Control		7.
•	Type (air i	njection, engine	Air injection	
	modification	ns, other)	catalyst	
		Pumo or pulse	Pump	
	Air	Driven by	V-belt	
٠	Injection	Air distribution (head, manifold, etc.)	Rotor housing & catalyst	
		Point of entry	EX. port & catalyst	
Exhaust '	Exhaust Gas	Type (controlled flow, open orifice, other)	-	-
Emission Control	Recircula-	Exhaust source		
•		Point of exhaust injection (spacer, carburetor, manifold, other)	- :	· •
		Туре	3-way & Oxd.	
	1	Number of	2 (1 bed + 3 bed)	2 (2 bed + 3 bed)
		Location(s)	Under floor	Engine room & Under floor
	Catalytic	Volume (L (in²))	3.3 (201.4)	
	Converter	Substrate type	Monolith	4.0 (244.1)
		Noble metal type	Pt/Rh, Pt/Pd	Pt/Rh, Pt/Pd, Pd
		Noble metal concentration (g/cm²)	-	1 11/11/11/11/11
	Type (ventitates to atmosphere, induction system, other)		Closed 2 way system	
			with control valve	
rankcase mission iontrol	Energy source (manifold vacuum, carbutetor, other) Discharges (to intake manifold, other		Parked vacuum	
~			Intake manifold	
	1	ather cap, other)	Drain pipe of canister	
ve vabora-	Vapor vente (crankcase,	1 001 2012	Crank case & charcoal canister	•
mission ontrol	canister, ou		-	
	Closed loop		Crank case & charcoal canister	
lectronic stem	Open loop (Yes	
raine –	Exhaust		Yes	
ype (single, single with cross-over, val, other)			Single with dual pipes	
uffler no. & i parate reso	Type (reverse l nator) Materia	low, straight thru, & Mass [kg (weight ibs)]	2/Reverse flow	
sonator no.	4 type		-	
	Branch c.d.,	wall thickness	-	
chaust ce	Main o.d., w	all thickness	ø54 x 2.0	ø60.5 x 2.0
	Material & M	ass [kg (weight lbs)]	Stainless steel	, , , , , , , , , , , , , , , , , , ,
ter-	o.d. & wall th	ickness	ø45 x 2.0 →	
Xe .	Material & M	ass [kg (weight lbs)]	Stainless steel	
a ~	o.d, & wall th		\$42.7 x 1.6	\$50.8 x 1.6
be	Material & Ma	Iss (kg (weight lbs))	Al coated steel	

MVMA Specifications		ifications	Vehicle Line _	<u>Mazda</u>			<u></u>	
			Model Year	191	Issued(<u> Ct./190</u>	Revised (·)	· · ·
METRIC (U.S. Customary)		stomary)						
Engine Description Engine Code		<i>,</i>	_ EGI	·		Turbo		,
Transmiss	ions/Tr	ansaxle (Std., O	ot., N.A.)	•				7
Manual 3-soee	d (manufac	turericonutry)	N/A			······································		
Manual 4-spee	d (manufac	turer/country)	N/A					
Manual 5-spee	d (manufac	turer/country)	Std.					
Automatic (mai	nulacturer/c	ountry)	- .				* .	
Automatic over	drive (manu	afacturer/country)	_			·		
Manual Tr	ansmiss	lon/Transaxle	Normal sus.	Hard S				· · · -
Number of forw	ard speeds	i	5	naru si	us,			
HOLLIGER OF IOLA	1st	·	3.475			2 / 0 2	· · · · · · · · · · · · · · · · · · ·	
	2nd		2.002			3.483		
	3rd		1.366			2.015		
Gear	4th		1.000	<u> </u>		1.391	 -	
ratios	5th		0.697	0.756		0.719		
•	Reverse		3.490	0.750		3.288		
chronous m	·	ecity gears)	All forward gears			3.200		·
Shift lever local		, , , , , , , , , , , , , , , , , , , ,	Floor					•
Trans, case ma		ko (lbs)*						
	Capacity		2.5 L					
Lubricant		ommended	A.P.T. Service GL-	-4 or GL-	-5			<u> </u>
		•	SAE 75W-90	· .				
Clutch (Ma	inual Tr	ansmission)						
Clutch manufac	turer		DAIKIN MANUFACTUR	ING CO.		-		 ,,
Clutch type (dr)	y, wet; singl	e, multiple disc)	Dry single plate					
Linkage (hydrai	ulic, cable, i	od, lever, other)					<u> </u>	,
Max. pedal effo	ri (nom.	Depressed	_			*		
spring load, ner	w) N (lbs)	Released	-					
Assist (spring,)	power/perce	ent, nominal)					·	
Type pressure	plate spring	s	Diaphram				· · · · · · · · · · · · · · · · · · ·	
Total spring loa	d (nominal,	new) N (lbs)						
	Facing m	fgr. & material coding	VALEO .					
	Facing m	aterial & construction	Semimold					
	Rivets pe	r facing						
	Outside x	inside dia (nominal)	225 x 150			230 x 15	5	· · · · · · · · · · · · · · · · · · ·
-	Total eff.	area (cm²(in.²))	220 cm ²			226 cm ²		
Clutch tacing	Thickness (pressure plate side/fly wheel side)		3.2 / 3.2 mm		-	3.5 / 3.	5 mm	
		th (pressure plate heel side)				<u>.</u>	^	~ *
·	Engagem	ent cushion method	Cushion spring	 -				···
Release bearing	ype & me	thod lub.	Ball bearing					
Torsional damping method, springs, hysteresis		springs, hysteresis	Coil spring				, · · ·	·

^{*} Includes shift linkage, lubricant, and clutch housing, If other specify,

· MVMA	A Specifications	Vehicle Line Mazda RX-7 Model Year 191 Issued Oct./190 Revised (-)
METRIC	(U.S. Customary)	Issued Occ./ 30 Revised (·)
Engine Desi Engine Cod		EGI Turbo
) Automati	c Transmission/Transaxle	7-
Trade Name		N4A-EL
Type and spe	cial leatures (describe)	Electronic control
	Location (column, floor, other)	Floor
Gear selector	Ltr./No. designation (e.g. PRND21)	PRND21
	Shift interlock (yes, no, describe)	
	151	2,841
Gear	2nd	1.541
ratios -	3rd	1,000
	4th	0.720
	Reverse	2,400
Max. upshift s	peed - drive range (km/h (mph))	63 (1→2), 115 (2→3) km/h
Max. kickdow	n speed - drive range [km/h (mph)]	45 (2→1), 105 (3→2) km/h
Min. overdrive	speed (km/h (mph))	35 km/h
	Number of elements	3
Torque	Max. ratio at stall	1.90
converter	Type of cooling (air, liquid)	Liquid
•	Nominal diameter	236
	Capacity factor "K"	189.256
	Capacity [refill L(pt.)]	7.3 L
Lubricant	Type recommended	ATF-MIII
Oil cooler (std.	, opt., N.A., internal, external, air, liquid)	N/A
	mass [kg (lbs)] & case material **	*
_	/ 4 Wheel Drive	N/A
Description & t while moving,	type (part-time, full-time, 2/4 shift mechanical, elect, chain/gear, etc.)	-
	Manufacturer and model	<u>.</u>
Transfer case	Type and location	<u>-</u>

L range gear ratio

System disconnect (describe)

Center cirterential Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)

Torque split (% front/rear)

[·] Input speed + . Torque

[&]quot; Dry weight including torque converter. If other, specify,

MVMA	Spec	ifications			azda RX-7	
	•	stomary)	N	lodel Year'91	Issued Oct./ 90 Rev	sed (·)
	(5.5. 50	(Storriary)				
Engine Desc Engine Code			Normal	GI sus Hard su	Turbo	;
Ø Axle Ratio	and Too	oth Combinations	(See Power Tear	ms' for axle ratio usage)		
Axle ratio (or o	overall top ge	ar ratio)	4.1	4.3	4.1	· · · · · · · · · · · · · · · · · · ·
Ring gear o.d.			183	183	204	
No. of	Pinion		10	10	10	
teeth	Ring gea	7	41	43	41	<u></u>
Ø Rear Axle	Unit	`		• ,		
Description			Hypoid			
Limited slip dit	flerential (typ	e)	Viscous			
Orive pinion		Туре	Hypoid	gear	-	
		Offset	35 mm			
No. of differen	tial pinions			.D. = 4)		
Pinion / differe	ential	Adjustment (shim, etc.)	Shim	21.1		
		Bearing adjustment	_ collaps	ible type	<u> </u>	
Driving wheel			1.3 L			
Lubricant	Capacity	·	GL-5		1.4 L	· · · · · · · · · · · · · · · · · · ·
	Type rec	ommended	GF_2		·	· · · · · · · · · · · · · · · · · · ·
			! !			<u> </u>
			· · · · · · · · · · · · · · · · · · ·			
			<u>'</u>			
Propeller	Shaft -	Rear Wheel Drive				
Manufacturer Type (straight internal-extern	tube, tube-ir	i-tube,	Straigh	t tube		
		· · · · · · · · · · · · · · · · · · ·				
	Manual 3	-speed transmission	NA			
Outer	Manual 4-speed transmission		NA	•		•
- diam. x length" x wall thickness	Manual 5-speed transmission		57 x 78	2 x 1.6	75 x 774	x 1.6
DISCARESS	Overdrive		NA			
	Automatia	transmission	57 x 733	3 x 1.6	65 x 725	x 1.6
Inter-	Type (pla	in, anti-friction)	_	<u> </u>		
mediate iring		in (fitting, prepack)	-		<u> </u>	
	Туре		Spline			
Slip yoke	Number o	of teeth	22		25	
	Spline o.c		25.19		28.05	
	Make and	mtg, no.		2 25 060	NTN POO1	25 060
		Rear	MIN MOOZ	25 060	NTN POO1	25 060 ·
	Number t	sèd	2			
Universal	Type (bal	l and trunnion, cross)	Hooks jo	oint		
joints	Rear atta	ch (u-bolt, clamp, etc)	flange			· · · · · · · · · · · · · · · · · · ·
	Sec.	Type (plain, anti-friction)	Needle b	pearing		
	Bearing	Lubrication (fitting, prepack)	Sealed g	grease		
Drive taken thr arms or spring	rough (torque	tube.	Arms			

Arms

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-90

-MVM	A Specifications	Vehicle Line <u>Mazda RX-7</u>	0-1 //00
METRI	C (U.S. Customary)	Model Year91 Issue	ed Revisec (-)
	o (o.o. oostomary)		· 100
Body Type Engine Di	e And:Or splacement	Coupe	Convertible
Suspen	sion - General Including Ele	ectronic Controls	
	Standard/optional/not avail.	N/A	
	ManuaVautomatic control	-	
	Type (air/hydraulic)		-
Car	Primary/assist spring	_	<u> </u>
leveling	Rear only/4 wheel leveling		
٠	Single/dual rate spring		
	Single dual ride heights	<u> </u>	·
	Provision for jacking	-	
•	Standard/option/not avail.	Opt.	
	Manual/automatic centrol	Auto.	
	Number of damping rates	-	
Sheek			
Shock absorper damping	Type of actuation (manual/ electric motor/air, etc.)	Electric	<u> </u>
controls	S Lateral acceleration	-	
	n Deceleration	-	
	O Acceleration		
	S Road surface	_	
Shock	Туре	Cylindrical double acting	
absorber (front &	Make	F: KAYABA , R: TOKIKO	
teat)	Piston diameter		
	Rod diameter		
Suspens	sion – Front		
Type and de	scription	Independent, Strut coil spr	ing
Travel*	Full jounce	-	
	Full rebound		
	Type (coil, lest, other) & material	Coil	
•	Insulators (type & material)		
Spring	Size (coil design height & i.d.)	12.0 x 147 x 336.5 - 4.1	12.2 x 147.2 x 346.5 - 4.29
	Spring rate (N/mm (lb./in.))	2.1 kgf/mm	
	Rate at wheel [N/mm (lb_fin.)]	2.19 kgf/mm	
.ablizer	Type (link, linkless, frameless)	Link	
.454261	Material & bar diameter	24 mm	
Suspens	ion – Rear		,
Type and de	scription	Multilink semi-trailing	
	Full jounce	-	
:Evel	Full rebound	_	<u> </u>
	Type (coil, leaf, other) & material	Coil	
, ,,	Size (length x width, coil design height & i.d.)	10.1 x 84.4 x 385 - 9.62	10.3 x 84.2 x 372.5 - 9.43
Spring	Spring rate [N/mm (tb./in.)]	1.8 kgf/mm	2.0 kgf/mm
	Rate at wheel [N/mm (lb,/in.)]	1.96 kgf/mm	2.24 kgf/mm
	insulators (type & material)		
	H No. of leaves	N/A	
	(Shackle (comp. or lens.)	N/A	
:abilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	14 mm	12 mm
rack bar (iyi	00)	<u> </u>	

^{*} Define load condition;

Venicle Line Mazda RX-7 Oct./ 190Revised (1) Model Year .

METRIC (U.S. Customary)

		-0.0,			•	2.00°
Body Type A Engine Disp				14 in. wheel		wheel
Brakes -	Brakes - Service				Non-ABS	ABS
Occasionica	•			i i		
Description		•		Four wheel hydraulic	actuated systëm	
Manufacturer and Front (disc or drum)		Disc (ventilated)				
brake type (std., opt., n.a.) Rear (disc or drum))	Disc (solid)	(ventilated)	
Valving type (proportion, delay, metering, other)				Proportion		
Power brake (·	Std.		
Booster type (1	grai, vac., hyd., etc.)		Vacuum		
		nline, pump, etc.)	· -	Direct vacuum		
Vacuum		r (valume in.3)		! N/A		
		pe (elec, gear driven, beit	(Criven)	N/A	<u> </u>	
Traction control		nal speed range	··-	N/A		
	1 -	ine intervention (electron	wc, mecn.j	! N/A		
	Manutac	ar (std., opt., n.a.)		N/A / N/A		Std./Std.
•		ectronic, mech.)		I		NIPPON ABS
Anti-lock		sensors or circuits		1	······································	Electronic
u ;		enti-lock hydraulic circuits		<u> </u>		. 4 sensors
		r add-on system		<u> </u>		3 channel
		rol (yes. no)	·	_		Add-on system
•	}	ower source (elec., vac. mtr.	. p=r. sag.)	<u> </u>		No
Effective area		·		42.8/32.1	/7/20 2	Electronic
Gross Lining a	rea (cm²(in.))**(F/R)		44.1/33.2	47/32.1 48.5/33.2	
Swept area (cr	77 ² (úr. ²)] (F	(A)	• • • •	325.15/263.44	357.29/277.81	
	Outerwor	king diameter	F/R	276/261	276/273	· · · · · · · · · · · · · · · · · · ·
Rotor	Inner wor	king diameter	F/R	168/179	168/191	<u> </u>
	Thicknes	· ·	F/R	22/10	22/20	<u> </u>
	Material &	type (vented/solid)	F:R	Cast iron (vented)	(solid)	
Drum	Diameter	& width	F/R	N/A / N/A	<u> </u>	
	Type and	material	F/R			
Wheel cylinder	bore			50.8/34.93	· · · · · · · · · · · · · · · · · · ·	
Master cylinde	r Be	oreistroke	F/R	22.2/15		
Pedal arc ratio				4.5		
Line pressure a	21 445 N(100	lb.) pedal load (kPa (psi)]	11474 (1664)		
ining clearance	:e		F/R	Self-adjusting		
		Bonded or riveted (riv	ets:seg.)	Bonded		
	!	Rivet size		=		
		Manulacturer		AKEBONO	SUMITOMO ELECTI	RIC
	Front	Lining code****		AK S410 FG	M2247 FF	
•		Material		RESIN MOLDED		
		; ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		107,4 x 44.5 x 9	105.2 x 51 x 11	
		Size Secondary o		107.4 x 44.5 x 9	105.2 x 51 x 11	
Brake Ining		Shoe thickness (no lin		5 (0.20) Bonded	4.5 (0.18)	
•	1	Bonded or riveted (riv	ets/seg.)	· · · · · · · · · · · · · · · · · · ·		
]_	Manufacturer Lining code*****		AKEBONO BRAKE INDUSTR	RIES CO., LTD.	
	Rear wheel	Material		AK NS502		<u> </u>
		Primary or o	rd-board	RESIN MOLDED 95 x 38.1 x 8		
	1	Size Secondary o		95 x 38.1 x 8		·
		Shoe thickness (no lin		5 (0.20)	· · · · · · · · · · · · · · · · · · ·	
		• -		- (V.4.U)		

Excludes rivet holes, grooves, chamfers, etc. " Includes rivet holes, grooves, chamfers, etc.

Excludes myel noies, grooves, channers, 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 Mazda RX-7 Vehicle Line 91 Issued Oct. / 190 Revised (-) Model Year METRIC (U.S. Customary) GTU, GXL Body Type And/Or -Engine Displacement GT, GTUS Tires And Wheels (Standard) 205/60R15 39H or 205/60VR15 Size (load range, ply) 205/55R16 88V Type (bias, radial, steel, nylon, etc.) Radial, Steel Inflation pres-sure (cold) for Front [kPa (psi)] 2.2 kgf/cmf recommended max, vehicle Rear [kPa (psi)] 2.2 kgf/cm⁻ load. Rev/mile-at 70 km/h (45 mph) Type & material Aluminum Rim (size & flange type) 6-JJ x 15 or 15 or 6 1/2JJ x 15 Wheel offset 40 Wheels Stud Type (bott or stud) Attachment Circle diameter 114.3 M12 x 1.5 Number & size Tire and wheel T135/70D15 $^{4}T \times 15$ T135/70D16 4Tx16 Storage position & location Trunk room (describe) Tires And Wheels (Optional) Tire size (load range, ply) 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) Tire size (load range, ply) ype (bias, radial, steel, nylon, etc.) W" (type & material) _ 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 Hand operated Location of control Right side of rriver's seat

Operates on

ii separate

brakes

from service

Type (internal or external)

Drum diameter

Lining size (length x width x thickness)

Rear service brakes

N/A N/A

N/A

MVMA	Specifications
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MVMA Specifications			Vehicle Line Mazda RX-7				
METRIC (U.S. Customary)			Model Year 91 Issued Oct. / 90 Revised (*)				
Body Type And/Or Engine Displacement			All models				
Steering							
Manual (std.	. opt., n.a.)	·	Std.				
Power (std.,	οστ., n.a.)		Opt.				
Adiustable		Туре	Tilt	·			
steering whe (tilt, telescop	el/column	Manufacturer .					
	e. ouiei)	(sid., cot, n.a.)	Opt.	· .			
Vheel diame	iter"	Manual					
W9) SAE J1	100	Power					
	Outside	Wall to wall (L & r.)					
Turning Siameter	front	Curb to curb (L & t.)					
ਸ਼ਵਾਦਦਾ ਜ਼ (ਜੈL)	Inside	Wall to wall (L & r.)	-				
	(65L	Curb to curb (L & r.)					
Scrub Radius	•						
		Туре	Rack & pinion				
	ł _	Manufacturer	VOVO CO				

	No. whe	No. wheel turns (stop to stop)			
	Type (coaxial, elec., hyd., etc.) Manufacturer			Hyd.	
Power				KOYO SEIKO	
		Туре		Integral	
	Gear	Ratios	Gear		
		rialios	Overall	**	
	Pump (d	rive)		-	
	No. wher	l tums (st	op to stop)	•	·
	Type			_	
Linkage	Location of wheels	Location (front or rear of wheels, other)		Front	
	Tie rods (one or two)			Two	
	Inclination	at cambe	er (deg.)	-	
Heering		Upper			
1xis	Bearings (type)	Lower		•	
<u> </u>		Thrust		-	
steering spino	le/knuckie &	joint type			
	Diameter	inner bea	aring	-	<u> </u>
Vhee! pindle/hub	Cientife	Outer be:	aring	-	
_wickernup	Thread (s	zel	i		

^{*} The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground. See Page 22,

Gear

Overall

Ratios

Bearing (type)

Manual

MVMA	Spec	ifications	Vehicle Line Mazda RX-			
			Model Year 91 Issued Oct. / 90Revised (·)			
METRIC	(0.8. Cu	stomary)				
Body Type And/Or Engine Displacement			All models			
Wheel Ali	gnment			-		
	Service	Caster (deg.)	-			
	checking	Camber (deg.)	-			
		Toe-in [outside track-mm (in.)]				
Front		Caster	4° 40 ± 451			
wheel at curb mass	Service reser*	Camber :	0° 20 ± 30'	-		
(wt)	<u> </u>	Toe-in	3 ± 3 mm			
	Periodic	Caster				
•	M,V, in- spection	Camber	<u>-</u>			
	!	Toe-in	· <u>-</u>			
	Service checking	Camber (deg.)	<u> </u>			
Rear wheel at		Toe-in [outside track-mm (in.)]	<u>-</u> .			
curb mass	Service reset*	Camber				
(WL)	Periodic	Toe-in	<u> </u>			
	M.V. in-	Camber Toe-in				
* tates pre	spection	e, trend set or other.	<u> </u>			
·	-set, adjustabl - Instrun	e, trend set or other.				
·	- Instrun	nents and Equipment	Analog (std.)			
Electrical Speed- ometer	- Instrun Type (anak	e, trend set or other.	Analog (std.) Std.			
Electrical Speed- orneter EGR maintena	- Instrum Type (anak Trip odome	nents and Equipment	Analog (std.) Std.			
Electrical Speed- orneter EGR maintena	- Instrum Type (anak Trip odome	e, trend set or other. nents and Equipment pg, digital, std., opt.) ter (std., opt., n.a.)	Analog (std.) Std Gauge			
Electrical Speed- ometer EGR maintena Charge indicator	- Instrum Type (anale Trip odome unce indicator Type' Warning de	nents and Equipment	Analog (std.) Std Gauge Light			
Electrical Speed- orneter EGR maintena	Type (analy Type) Type (analy Trip odome ince indicator) Type Warning de	e, trend set or other. nents and Equipment og, digital, std., opt.) ter (std., opt., n.a.) vice (light, audible)	Analog (std.) Std. Gauge Light Gauge			
Electrical Speed- ometer EGR maintena Charge indicator Temperature indicator	Type (analy Trip odome ince indicator Type Warning de Warning de	e, trend set or other. nents and Equipment pg, digital, std., opt.) ter (std., opt., n.a.)	Analog (std.) Std Gauge Light Gauge Light			
Electrical Speed- orneter EGR maintena Charge indicator Temperature indicator Oil pressure	Type (anak Trip odome unce indicator Type Warning de Type Warning de	e, trend set or other. nents and Equipment og, digital, std., opt.) ter (std., opt., n.a.) vice (light, audible) vice (light, audible)	Analog (std.) Std Gauge Light Gauge Light Gauge			
Electrical Speed- orneter EGR maintena Charge indicator Temperature indicator Oil pressure indicator	Type (anak Trip odome unce indicator Type Warning de Type Warning de	e, trend set or other. nents and Equipment og, digital, std., opt.) ter (std., opt., n.a.) vice (light, audible)	Analog (std.) Std Gauge Light Gauge Light Gauge Light Gauge Light (Oil level)			
Electrical Speed- ometer EGR maintena Charge indicator Temperature indicator Oil pressure indicator Fuel	- Instrum Type (anak Trip odome unce indicator Type Warning de Type Warning de Type Warning de Type Warning de	e, trend set or other. nents and Equipment og, digital, std., opt.) ter (std., opt., n.a.) vice (light, audible) vice (light, audible)	Analog (std.) Std Gauge Light Gauge Light Gauge Light Gauge Light (Oil level) Gauge			
Electrical Speed- ometer EGR maintena Charge indicator Temperature indicator Oil pressure indicator Fuel	- Instrum Type (anak Trip odome unce indicator Type Warning de Type Warning de Type Warning de Type Warning de	e, trend set or other. nents and Equipment og, digital, std., opt.) ter (std., opt., n.a.) vice (light, audible) vice (light, audible) vice (light, audible)	Analog (std.) Std. Gauge Light Gauge Light Gauge Light Gauge Light (Oil level) Gauge Light	<u></u>		
Electrical Speed- orneter EGR maintena Charge indicator Temperature indicator Oit pressure indicator Fuel indicator	- Instrum Type (anak Trip odome unce indicator Type Warning de Type Warning de Type Warning de Type Warning de	e, trend set or other. nents and Equipment og, digital, std., opt.) ter (std., opt., n.a.) vice (light, audible) vice (light, audible) vice (light, audible) vice (light, audible)	Analog (std.) Std Gauge Light Gauge Light Gauge Light Gauge Light (Oil level) Gauge	<u></u>		
Electrical Speed- orneter EGR maintena Charge indicator Temperature indicator Oit pressure indicator Fuel indicator	- Instrum Type (anak Trip odome unce indicator Type Warning de	e, trend set or other. nents and Equipment og, digital, std., opt.) ter (std., opt., n.a.) vice (light, audible) vice (light, audible) vice (light, audible) vice (light, audible)	Analog (std.) Std. - Gauge Light Gauge Light Gauge Light (Oil level) Gauge Light Semi-concealed	<u></u>		
Electrical Speed- orneter EGR maintena Charge indicator Temperature indicator Oil pressure indicator Fuel indicator Wind- shield	- Instrum Type (anak Trip odome Ince indicator Type Warning de	e, trend set or other. nents and Equipment og, digital, std., opt.) ter (std., opt., n.a.) vice (light, audible) vice (light, audible) vice (light, audible) vice (light, audible)	Analog (std.) Std. Gauge Light Gauge Light Gauge Light (Oil level) Gauge Light Semi-concealed None	<u></u>		
Electrical Speed- orneter EGR maintena Charge indicator Temperature indicator Oil pressure indicator Fuel indicator Wind- shield viper	- Instrum Type (anak Trip odome unce indicator Type Warning de Type Garac Type (optio Blade lengt	e, trend set or other. nents and Equipment og, digital, std., opt.) ter (std., opt., n.a.) vice (light, audible) vice (light, audible) vice (light, audible) sard) nal) (cm²(in.²))	Analog (std.) Std. - Gauge Light Gauge Light Gauge Light (Oil level) Gauge Light Semi-concealed None -	<u></u>		
Electrical Speed- orneter EGR maintena Charge indicator Temperature indicator Oil pressure indicator Fuel indicator Wind- shield viper	Type (analystable) Instrum Type (analystable) Trip odome Ince indicator Type Warning de Type Stanc Type (option Blade lengt) Swept area Type (stanc Type (stanc) Type (stanc) Type (stanc)	e, trend set or other. nents and Equipment og, digital, std., opt.) ster (std., opt., n.a.) vice (light, audible) vice (light, audible) vice (light, audible) stard) h (cm²(in.²)) sard) nat)	Analog (std.) Std. - Gauge Light Gauge Light Gauge Light (Oil level) Gauge Light Semi-concealed None - 2-nozzle (4-jet), El			
Electrical Speed- ometer EGR maintena Charge indicator Temperature indicator Oil pressure indicator Fuel indicator Wind- shield viper y s washer	Type (analystable) Instrum Type (analystable) Trip odome Ince indicator Type Warning de Type (stance Type (option Blade lengt Swept area Type (stance Type (stance Type (option Fluid level in	e, trend set or other. nents and Equipment og, digital, std., opt.) ster (std., opt., n.a.) vice (light, audible) vice (light, audible) vice (light, audible) stard) h [cm²(in.²)] stard) nat] ndicator (light, audible)	Analog (std.) Std. Gauge Light Gauge Light Gauge Light (Oil level) Gauge Light Semi-concealed None			
Electrical Speed- orneter EGR maintena Charge indicator Temperature indicator Oit pressure indicator Fuel indicator Wind- shield viper v s washer	Type (analystable) Instrum Type (analystable) Trip odome Ince indicator Type Warning de Type (stance Type (option Blade lengt Swept area Type (stance Type (stance Type (option Fluid level in	e, trend set or other. nents and Equipment og, digital, std., opt.) ster (std., opt., n.a.) vice (light, audible) vice (light, audible) vice (light, audible) stard) h (cm²(in.²)) sard) nat)	Analog (std.) Std. - Gauge Light Gauge Light Gauge Light (Oil level) Gauge Light Semi-concealed None - 2-nozzle (4-jet), El			

Other

Number used

MVMA	Specifications	Vehicle Line Mazda RX-7 Model Year 91 Issued Oct. / 90 Parised ()				
METRIC	(U.S. Customary)	Model Year 91 Issued Oct./ 90 Revised (-)				
Engine Description Engine Code		All models				
Electrical	- Supply System	. 7-				
	Manufacturer .	NIHON DENCHI / MATSUSHITA DENCHI				
	Model, std., (opt.)	Maintenance free, 55D 21 / 65D23L				
	Voltage	12 V				
S-w	Amps at 0°F cold crank	3564/5204				
Battery	Minutes-reserve capacity	99 /95				
	Amps/hrs20 hr, rate	60 AH / 55AH				
	Location	Engine room				
;	Manufacturer .	MITSUBISHI				
	Rating (idle/max, rpm)	1 80 A				
Atemator	Ratio (alt. crank/rev.)	2.20				
- Acrimio	Output at icle (rpm, park)					
	Optional (type & rating)					
Regulator	Туре	IC-type				
Electrical	- Starting System					
	Manufacturer	MITSUBISHI				
Motor	Current drain *F					
	Power rating [kw (hp)]	1.2 KW (MT) , 2.0 KW (AT)				
-	Engagement type					
Hotor drive	Pinion engages from (front, rear)	Magnetic -				
Electrical	- Ignition System					
T	Electronic (std., opt., n.a.)	Std.				
Туре	Other (specify)					
	Manufacturer	HANSHIN , DIAMOND				
	Model	MCC-0500, F-065				
Col	Engine stopped - A	-				
i	Current Engine Ioling - A	_				
	Manufacturer	NGK				
	Model	Trailing : SD11A, Leading : SD10A				
Spark	Thread (mm)	- Italing . Bolin, Beauting . Sblok				
مام	Tightening torque [N+m (lb, ft)]	12.7 - 17.7 Nm				
	Gap	2.0				
	Number per cylinder	2				
	Manufacturer	MITSUBISHI				
Distributor	Model					
Electrical -	- Suppression					
	·					
Locations & type	•	High tension cord, Spark plug				

MVMA	Specif	fications	- Vehicle Line	Mazda RX-7		
	Сресп	ilcations	Model Year	'91 Issued	Oct./'90	Revised (-)
METRIC	(U.S. Cus	tomary)	· .	·		
Body Type		2-Seater				
Body	<u></u>					7-1
					 :	
Siructure			Utilized all	steel welded	l body with	energy
	`		absorbing fro	ont and rear	structure	
·						·
					•	
Bumper syste	em		2 5 1000 1	/P 5 T) \ [~]	
mont - rear		Ì	2.5 Mrn bump	er (Front & F	lear)	
				•		
•						
	· · · · · · · · · · · · · · · · · · ·	İ				
				•	•	
						•
Anti-corrosion	ı nesmeni		Major exteri	or and struct	ural sheet	metal components.
			•			٠
				<u></u>		•
الماسية	, 41	un lafa un aktu	•			
	`	us Information	<u> </u>			
Type of finish	(lacquer, ename		-			
	Material & m		<u> </u>		· · · · · · · · · · · · · · · · · · ·	·
Hood		on (front, rear)	Rear			<u>=</u>
		erbalance, prop) -				
	Material & m	trol (internal, external)	Integral			
Trunk		erbalance, other)		<u>.</u> .	_ · 	
lid .		se control (elec., mech., n.a.)	Mech.	<u> </u>		
	Material &		-			
Haich-		nterbalance, other)	_			
cack lid	1	se control (elec., mech., n.a.)	Mech.	• .	···	
	Material & m	ass	<u>-</u> .			
lançate	Type (drop.	lift, door)	_			
	Internal releas	se control (elec., mech., n.a.)				
	control (crank,	Front	N/A			
riction, pivot,	power)	Rear	<u> </u>			
Mindow regul	lator type	Front	<u>Cable</u>			
,⊶core, tape, t	lex drive, etc.)	Rear	N/A			
Seat cushion		Front	Bucket		5en	<u>ch</u>
(e.g., 60/40 bi wire, toam, et	ucket, bench, c.)	Rear	N/A			· · · · · · · · · · · · · · · · · · ·
	<u></u>	3rd seat	N/A			·
Seat back typ	e į	Front	Bucket		·····	· · · · · · · · · · · · · · · · · · ·
e.g., 60/40, b rire, loam, et	oucket, bench, c.)	Rear	N/A			<u>ch</u>
	· · · · · · · · · · · · · · · · · · ·	3rd seat	N/A			•
•		1				•

Mazda RX-7 Vehicle Line

METRIC (U.S. Customary)	Issued OCC. 7 90 Revised (·)		
Body Type	Coupe / Convertible	·	

	i System			<u> </u>		<u> </u>
Seating Posi	900	<u> </u>		<u>Len</u>	Center	Right
Type & description (lap & shoulder belt,		it.	First seat	Lap/Lap & Shoulder	N/A	Lap/Lap & Shoulder
Active	Standard / optiona		Second seat	Lap & Shoulder/N/A (2+2 Seater)	N/A	Lap & Shoulder/N/A
·	Standard / optiona		Third seat	N/A	N/A	N/A
	Type & description		First seat	Motorized Air 2-point belt Bag	N/A	Motorized /Air 2-point belt/ Bag
Passive	(air bag, motorized 2-point belt, fixed to knee bolster, manual lap belt)	belt.	Second seat	N/A	N/Ą	N/A
	Standard / optional		Third seat	N/A	N/A	N/A
Glass		SAE Ref. Ho.				
Windshield gl surface area (ass exposed cm²(in.²))	Sı	_			
Side glass ex area (cm²(in.²	posed surface)] - total 2-sides	S2	-			
Backlight glas surface area (is exposed cm²(in.²)]	ಟ	_	•	-	_
fotal glass ex trea (cm²(in,²	posed surface))	S4				
Windshield gla	ass (type)		La	minated	•	
Side çlass (ty)	pe)		. Te	mpered		
ilight glas	s (type)	·	Te	mpered ·		
deadlamp	os					
Description - s lalogen, repla	ealed beam, ceable bulb, etc.		На	logen		
Shape		Rectangle				
Lo-beam type (2A1, 2S1, 2C1, etc.			2B			~ .
)uantin			2			
Ouantity Hi-beam type (1A1, 2A1, 1C1,				······································		
<u> </u>	(1A1, 2A1, 1C1,		2B	1	*** '	•

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

Unitized construction

MANAGE	A Specifications	Vehicle Line Ma	azda RX-		
IAT A TATA	Specifications	Model Year 91	Issued _	Oct. 790 Revised (1)	
METRIC	(U.S. Customary)				
•					- ;
Body Type	·	All models			
	L		·		
Convenie	ence Equipment (standard, optional	, n.a.)			
		Mannual (Opt.)			-
Air conditionii		•		•	•
		Auto (Opt.)			
Clock (digital	analog)	Digital (std.)			
Compass / th	ermometer	None			
Console (floo	r, overhead)	Floor			
Defroster, ele	c. backlight	Std.			
	Diagnossic monitor (integrated, incividual)				
		-			
	Instrument cluster (list instruments)				•
		·			
	Keyless entry	N/A	 -		· · · · · · · · · · · · · · · · · · ·
Electronic	Tripminder (avg. spd., fuel)	n/a			: .
	Voice alert (list items)	N/A		-	
	Other	-			
ruel door loc	k (remote, key, electric)	Remote		- 1.2	<u> </u>
	Auto head on / off delay, dimming		·		
	Cornering .	N/A			
	Courtesy (map, reading)	Opt.		<u> </u>	
÷	Door lock, ignition	Ignition (std.)		·	
	Engine compartment		 -		
Lamps	Fog	Opt.		· · · · · · · · · · · · · · · · · · ·	
	Glove compartment	Std.		:	
	Trunk	· Std.		·	
	Illuminated entry system (list lamps, activation)	N/A			,
	Other	_			
	Day / night (auto. man.)	Man.			<u></u>
tirrors	LH. (remote, power, heated)	Power			
·······································	R.H. (convex, remote, power, heated)	Power		· · · · · · · · · · · · · · · · · · ·	
	Visor vanity (RH / LH, illuminated)	Std. (RH)			· · · · · · · · · · · · · · · · · · ·
Navigation sy	istem (describe)	N/A	,		
Samilar basis	a sa sata sa a fi sanina fiabut				

MVMA Specifications		Vehicle Line Mazda RX-7						
			Model Year '91	Issued _	.0ct./'90 _{Be}	evised ()		
METRIC	(U.S. Cı	istomary)						
Engine Description Engine Code			All models		· \			
Convenie	nce Equi	pment (standard, optional, r	a.)					
		(release, pull down)	N/A					
`	Door loci cescribe	ks (manual, automatic, system)	Mannual	···	•			
	:	2 - 4 - 6 way, etc.	N/A			* * * * * * * * * * * * * * * * * * * *		
		Reclining (R.H., L.H.)	N/A					
	Seats	Memory (R.H., L.H., present, recline)	N/A					
	Jeans	Lumbar, hip, thigh, support	N/A			· · · · · · · · · · · · · · · · · · ·		
Power acuipment	:	Heated (R.H., L.H., other)	N/A					
acoloment	<u> </u>				<u></u>			
	Side wind		Opt.			· · · · · · · · · · · · · · · · · · ·		
	Vent wind		N/A					
	Rear wind	ows	N/A					
	Antenna (location, whip, w / shield, power)	· Power					
٠	Standard		-					
Radio systems		AM, FM, stereo, tape, compact disc. graphic equalizer, their deterrent, radio prep package,	1. AM, FM radi			-		
	Optional	headphone jacks, etc.	· 2. Logic comb.	radio		•		
			3. Logic comb.	radio +	equalizer			
	-		4. Logic comb.	radio +	compact di	isc + equalizer		
	Speaker (r	number, location)	Front: 2, Doo	r: 2, F	Rear: 2			
Roof: open air (or fixed (flip-c	:p, stiding, "T")	Sliding roof (opt.)				
Speed control of			· Opt.					
Speed warning	device (light	, buzzer, etc.)	N/A					
Tachometer (rp			Std.			" '- '- '- '- '- '- '- '- '- '- '- '- '- 		
Telephone sys:)	N/A.					
. hard deterrent system		Std.						

`	MVMA Specificat	lions.		Vehicle Line	- Ma	zda RX·	-7		
			-	Model Year	' 91	Issued	Oct./'90	_ Revised (·)	
	METRIC (U.S. Customai	ry)				\		_ nevised (-)	 <u>-</u>
	Vehicle Dimensions S								-
	All dimensions to ground are for comp. SAE Ref. no, refers to the definition pu	arative purposes inlished in SAE i	s only. Dimension Recommenced	ons are to be shown to Practice J1100 Mot	or all base b or Vehicle Di	ody models mensions.	of each vehicle lin unless otherwise :	e. specified.	•
_	Body Typ◆	SAE Ref.	A11	models					 -
Z	Width	No.				 -			
	Tread (front)	-W101	1450			 -			
	Tread (rear)	W102	1440						<u> </u>
_	Vehicle width	W103	1690			· · · · · · · · · · · · · · · · · · ·			
	Sody width at Sg RP (front)	W117				 			
	Vehicle width (front doors open)	W120					<u> </u>		
	Vehicle width (rear doors open)	W121							
	Tumble-home (deg.)	W122							<u> </u>
-	Outside mirror width	W410		<u> </u>					
									
Z	Length							•	`.
	Wheelbase	L101	2430	mm					
	Vehicle length	L103	4315						
	Omrhang (front)	L104							
	C lang (rear)	L105					·	· · · · · · · · · · · · · · · · · · ·	
	Upper structure length	L123		· · · · · · · · · · · · · · · · · · ·				· 	
	Rear wheel C/L "X" coordinate	L127							
Ø	Height*		_				•	- · · · · · · · · · · · · · · · · · · ·	
~	Passenger distribution (tront/rear)	PD1,2,3							
	Trunk/cargo load	1701,2.3							·
	Vehicle height	H101	1265	mm ·					
	Cowl point to ground	H114	1205						
	Deck point to ground	H138							
	Rocker panel-front to ground	H112.							<u></u>
	Rocker panel-rear to ground	H111						<u> </u>	
	Windshield slope angle	H122	·			 -		 -	
	Backlight slope angle	H121						-	
	Ground Clearance*	<u> </u>	- ,					,	
	Front bumper to ground	H102							
	Rear bumper to ground	H104						· · · · · · · · · · · · · · · · · · ·	
	dirner to ground (front a mass (wL))	H103					·		
	Bumper to ground (rear at curb mass (wt.))	H105			•	- ,,,			
	Angle of approach (degrees)	H:06							
	Angle of departure (degrees)	H107							

130 mm

H147

H153 H156

Ramp breakover angle (degrees)

Min. running round clearance Location of min. run. grd. clear.

Axle differential to ground (front/rear)

All vehicle height and ground clearances are measured at the Manufacturer's Design Load Weight.
 Manufacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load, unless otherwise specified.
 All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specificat	ions	Vehicle Line	91 Issued Oct. / ' 90
METRIC (U.S. Customar Vehicle Dimensions Se	y) e Key Sheets fo		91 Issued Oct. / '90 Reviseo (-)
	e vel Sueers in	rueimitions	
Body Type	. - 2	door coupe	Convertible
Tront Compartment	SAE Ref.		Convertible
SgRP front, "X" coordinate	L31 :	<u></u>	
Effective head room		46	
Max, eff, leg room (accelerator)		109	922
ScRP to heel point	H30		
ScRP to heel point	L53		
Sack angle	L40	·	
Hio angle	L42		
Knee angle	L44		
Foot angle	L45		
Design H-point front travel	L17		
Normal driving & riding seat track text,	L23		
Shoulder room	W3 1	340	
Hip room		380	
Upper body opening to ground .	H50		
teering wheel maximum diameter	W9		
Steel /heel angle	His		
Accel, hell pt. to steer, whil, one	L11		<u> </u>
Accel, heel pt. to steer, whil. critr	H17	,	
Undepressed floor covering thickness	H67	· · · · · · · · · · · · · · · · · · ·	
Rear Compartment		•	
SgRP point couple distance	L50 5(37	
Effective head,room	H63 83		
Min. effective leg room	L51		
SgRP (second to heel)	H31		
Knee dearance	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-		
epressed floor covering thickness	H73.		
Luggage Compartment			
Usable luggage capacity [L (cu. n.)]	V1 10	4 L	117.3 L
Lihover height	H195		117.3 L
Interior Volumes (EPA Class			
Vehicle class			
Interior volume index (cu. ft.)**	1 1		
Trunk / cargo index (cu. ft.)	T 1	•	
			

^{*} See page 14,
** Includes passenger and trunk / cargo index - see definition page 32,

MVMA Specifications Wehicle Line	· .
Station Wagon - Third Seat Ref. No. N/A Seat facing direction SD1 - ScRP couple distance Las - Shoulder room W85 -	
Station Wagon - Third Seat Ref. Ho. N/A Seat facing direction SD1 - ScRP couple distance La5 - Shoulder room W85 -	
Scrip couple distance Las - Shoulder room Was -	
Shoulder room W85 -	
	
	
Effective leg room . L86 -	
Effective head room H86 -	
SçRP to heel point H87 -	
Knee clearance La7 -	
Back angle L88 -	
Hip angle L89 -	
Knee angle L90 -	
-Foot angle L91 -	
Station Wagon - Cargo Space N/A	
Cargo length (open front) L200 -	
Cargo length (open second) L201 -	
C 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 (m³(ft.²)) V2	
Hidden cargo volume index (m²(t,²)) V4 —	
Cargo volume index-rear of 2-seat V10 -	
Hatchback - Cargo Space N/A	
argo length at front seatback height L208 -	
Cargo length at floor (front) L209 -	
C. 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 H196 -	
Cargo volume index [m³(ħ.²)) V3 -	
Hissen cargo volume index [m²(t,²)] V4 —	

Cargo volume index-rear of 2-seat

MV	MA S	Specifica	tions	Vehicle Line	Mazda		<u> </u>	
METE	RIC (U	.S. Customa	irv)	Model Year _	91	Issued <u>Oct</u> ./190	Revised (-)	
	` 							
Body T	ур∙							
	Į.		All models					
Vehic	le Fidu	cial Marks						
Number*	•			Define	Coordinate Loc			
		<u> </u>			- Controlled Do			
	`		-		-			
Front			•	•				
				,			•	
				•				
				•				
					•	-		
					٠			
								-
				•				
Rear							_	•
			•					
		İ						
	•			•			•	
-		1						
Fiducial Mark						•		
Vumber		,						
	W21'							
-ront	لغط. H81*	- -			····			
	H161°							
	H163*	_						
·								
	W22"							`
	L55°							
ear	H52"	-			···			
	H164"	-		•			÷	
								
.,								
							٤.	

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

MVMA Specifications METRIC (U.S. Customary)

Vehicle Line	Mazda RX-7	
Model Year91	Issued Oct. / '90	Revised (·)

,					ehicle Ma	ass (weig	ght)			
	 -		CURB MASS	. ko. (lb.)*	". PASS MASS DISTRIBUTION					
			00110110100		1	n Frant		in Rear	7.	
Code .	Model _	Front	Rear	Total	Front	Rear	Front	Rear	ETWC**	
2-dr. coupe					i i	<u> </u>		1.62.	Code	
	seater, MT	607	612	1219	41.7	58.3	N/A	N/A	3125 1Ъ.	
		(1338)	(1345)	(2687)	1			1	3,25 10.	
	\ .								,	
	AT	626	613	1239	41.7	58.3	N/A	N/A	3125 1ь.	
		(1380)	(1351)	(2731)					•	
	· · · · · · · · · · · · · · · · · · ·									
	2+2, MT	612	615	1227	41.7	58.3	16.7	83.3	3125 lb.	
		(1349)	(1356)	(2705)	<u> </u>		<u> </u>			
										
	AT	638	615	1253	41.7	58.3	16.7	83.3	3125 lb.	
		(1407)	(1355)	(2762)	ļ		ļ		·	
Turbo, 2 se	ater MT	664	666	1330	41.7	60.3	1 11 / 1	137.	2050 :11	
10100, 2 56	ater m				41./	58.3	N/A	N/A	3250 1ь.	
	<u> </u>	(1433)	(1442)	(2875)	 	· · · · · · · · · · · · · · · · · · ·	·		·	
2-dr. conve	rtible				 		 	 		
	eater, MT	664	666	1330	41 7	58.3	27/4	77/5	2276 11	
501, 2 3	, , , , , , , , , , , , , , , , , , , ,		(1468)	(2932)	41 /	70.3	N/A	N/A	3375 1ь.	
		114047	(1400)	(4934)	 		 		-	
·- <u></u>	AT	685	672	1357	41.7	58.3	N/A	N/A	2275 11	
			(1482)	(2992)	47.7	ر ، ەر	N/A.	N/A	3375 lb.	
		112121	<u> </u>	(-22-7	 		 	·		
·····							<u> </u>	1	· · · · · · · · · · · · · · · · · · ·	
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					<u> </u>		<u> </u>	[
	 	 			 				 	
					1		<u> </u>	<u> </u>		

^{*} Reference - SAE J1100 Motor vehicle dimensions, curb weight definition,

			ETWO	CLEGEN	D OI	•		
ép C D m n. G E	- 1000 - 1125 - 1250 - 1375 - 1500 - 1625 - 1750 - 1875	1 1 K L M Z O P	= 2000 = 2125 = 2250 = 2375 = 2500 = 2625 = 2750 = 2875	OR'STUVWX	- 3000 - 3125 - 3250 - 3375 - 3500 - 3625 - 3750 - 3875	Y Z AA BB CC DD EE FF	- 4000 - 4250 - 4500 - 4750 - 5000 - 5250 - 55500 - 5750	SHIPPING MASS (weight) Calculation (Kg. (lbs.) Shipping Mass (weight) = Curb Weight Less:

^{**} ETWC — Equivalent Test Weight Class — basis for U.S. Environmental Protection Agency emission certifications.

Refer to ETWC code legend below for test weight class.

FTWC LEGEND

MVMA Specifications METRIC (U.S. Customary)

Vehicle Line	Mazda RX-7
Model Year' 91	Issued Oct : / '90 Revised (·)

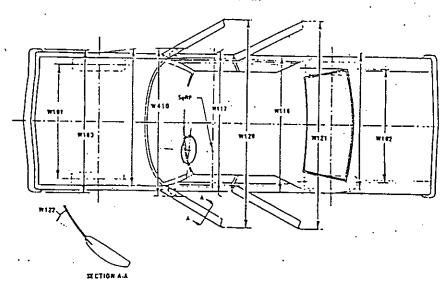
			·					
	- Optional Equipment Differential Mass (weight)*							
•	ļ	MASS, kg.	(lb.)	Gorand				
Code Equipment	Front	Rear	Total	Remarks ? Restrictions, Requirements				
Power Steering	12.80	~0.20	12.60	·				
Air conditioner	17.72	-0.02	17.70					
Sliding roof	3.96	9.42	13.38					
Remote control mirror	0.47	0.32	0.79					
Fog lamp	1.37	-0.23	1.14					
15" brake	-0.50	2.99	2.49					
GXT. package (MT)	11.25	24.40	35.65					
CV7								
GXL package (AT) · ·	12.27	25.70	37.97					
GTU package	-9.53	7.96	1.57					
<u> </u>								
ABS	8.78	2.74	11.52					
				· · · · · · · · · · · · · · · · · · ·				
Audio (C/D)	1.96	1.27	3.23	· · · · · · · · · · · · · · · · · · ·				
·								
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og see Ennine - General Section for drawed ancing mass fusion								

^{*} Also see Engine - General Section for dressed engine mass (weight),

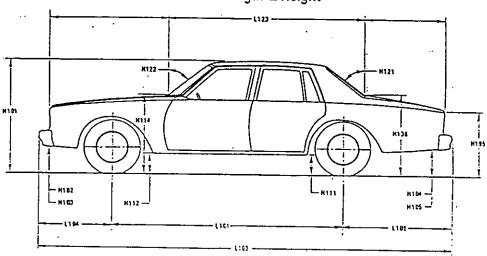
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions - Key Sheet

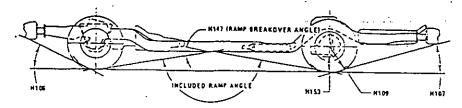
Exterior Width



Exterior Length & Height



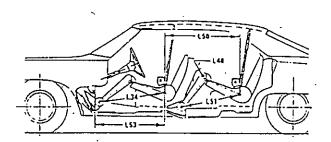
Exterior Ground Clearance

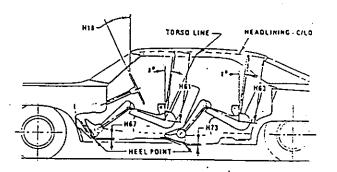


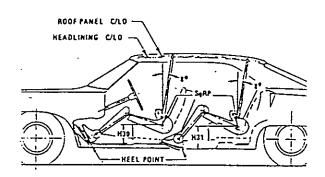
· MVMA Specifications Form

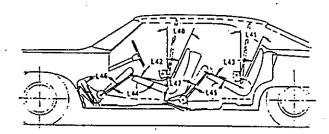
METRIC (U.S. Customary)

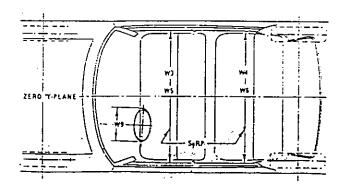
Interior Vehicle And Body Dimensions - Key Sheet

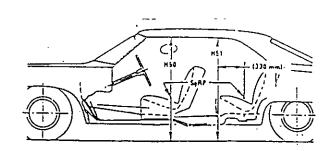










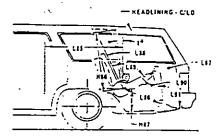


MVMA Specifications Form

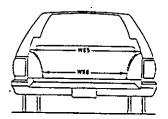
METRIC (U.S. Customary)

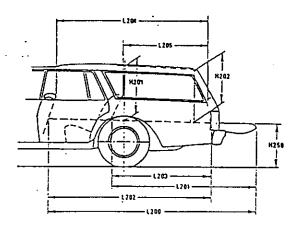
Interior Vehicle And Body Dimensions - Key Sheet

Third Seat

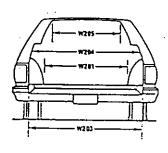


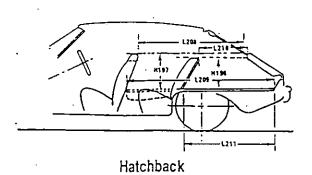
Cargo Space





Station Wagon





METRIC (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 cosition of each designated seating position in a vehicle;
(b) Has coordinates established relative to the design venicle structure:

(c) Simulates the cosition of the pivot center of the human

torso and thigh; and

(d) Is the reference coint employed to position the two dimensional templates described in SAE Recommended Practice J625, "Devices for Use in Defining and Measuring Venicle Seating Accommodations,".

Width Dimensions

TREAD-FRONT. The cimension measured between the tire centedines at the ground.

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.

VEHICLE WIDTH. The maximum dimension measured etween the widest point on the vehicle, excluding exterior irrors, flexible mud flacs, marker tamps, but including bumpers, moldings, sheet metal protrusions or dual wheels. if standard equipment.

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

VEHICLE WIDTH - FRONT DOORS OPEN. The dimension W120 measured between the widest point on the front doors in

maximum hold-open position.
VEHICLE WIDTH - REAR DOORS OPEN. The dimension W121 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. TUMBLE - HOME. STRAIGHT SIDE GLASS. The angle W122 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.
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.

Lengt .mensions

WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear extes, the dimension shall be to the midpoint of the centerlines of the rear wheels. VEHICLE LENGTH, The maximum dimension measured

L103 longitudinally between the letemost point and the rearmost point on the vehicle, including bumper, bumper quards, tow

hooks and/or rub strips, if standard equipment.

OVERHAND – FRONT. The dimension measured longitudi-L104 nally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow

hooks and/or rub strips, il standard equipment. 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, low hooks and rub strips, if standard equipment.

L123 UPPER STRUCTURE LENGTH. The dimension measured

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

Height Dimensions

VEHICLE HEIGHT. The dimension measured vertically from H101

the highest point on the vehicle body to ground.

ROCKER PANEL - REAR TO GROUND. The dimension H111 measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening.

excluding flanges, to ground.

ROCKER PANEL - FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

COWL POINT TO GROUND, Measured at zero "Y" plane. SACKLIGHT SLOPE ANGLE. The angle between the H114 vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord

of backlight are from lower DLO to upper DLO. WINDSHIELD SLOPE ANGLE. The angle between the H122 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.

DECK POINT TO GROUND, Measured at zero "Y" plane. H138 STATIC LOAD - TIRE RADIUS - REAR. Specified by the H109

manufacturer in accordance with composite TIRE SECTION STANDARD,

Ground Clearance Dimensions

FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard

H103 FRONT BUMPER TO GROUND-CURB MASS (WT.). Measured in the same manner as H102.

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.). H105 Measured in the same manner as H104.

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

ANGLE OF DEPARTURE. The angle measured between a H107 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.

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.

REAR AXLE DIFFERENTIAL TO GROUND. The minimum H153 dimension measured from the rear exte differential to

MINIMUM RUNNING GROUND CLEARANCE. The mini-H156 mum dimension measured from the sprung vehicle to ground. Specify location.

ETRIC (U.S. Customary)

jerior Vehicle And Body Dimensions — Key Sheet mensions Definitions

iss Areas

Windshield area.

Side windows area, Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.

Total area. Total of all areas (S1 ÷ S2 + S3).

:ucial Mark Dimensions

Fiducial Mark - Number 1

"X" coordinate.

"Y" coordinate. .1

"Z" coordinate.

Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground.

:3 Fiducial Mark - Number 2

X" coordinate.

"Y" coordinate.

"Z" coordinate.

Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground.

ant Cu artment Dimensions

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.

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

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).

SgRP - FRONT. "X" COORDINATED.

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 uncepressed 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 pedal.

E. _K 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,

HIP ANGLE - FRONT. The angle measured between torso line and thigh centerline.

KNEE ANGLE-FRONT. The angle measured between thigh centerline and lower leg centerline measured on the

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.

SgRP-FRONT TO HEEL. The dimension measured horizontally from the SgRP-front to the accelerator heel

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 alt of the SoRP - front.

STEERING WHEEL MAXIMUM OUTSIDE DIAMETER.

W9

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.

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

H30

vertical to the surface plane of the steering wheel.

SgRP – FRONT TO HEEL. The dimension measured vertically from the SgRP – front to the accelerator heel point. UPPER BODY OPENING TO GROUND – FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP – front "X" plane. EFFECITVE HEAD ROOM – FRONT. The dimension measured vertical from the SgRP – front plane. **H50**

H61 ured along a line 8 deg. rear of vertical from the SgRP - front

to the headlining plus 102 mm (4.0in.).
FLOOR COVERING THICKNESS - UNDEPRESSED -**H67** 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

BACK ANGLE-SECOND. The angle measured between L-41

a vertical line through the SgRP - second and the torso line. HIP ANGLE - SECOND. The angle measured between L43 torso line and thigh centerline.

KNEE ANGLE - SECOND. The langle measured between

L45

thigh centerline and lower leg centerline.
FOOT ANGLE - SECOND. The angle measured between 147 the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).

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.).
SgRP COUPLE DISTANCE—SECOND. The dimension L50 measured horizontally from the driver SgRP-front to the SgRP - second.

MINIMUM EFFECTIVE LEG ROOM-SECOND. The di-L51 mension measured along a line from the ankle pivot center

to the SgRP - second plus 254 mm (10.0 in.).

SHOULDER ROOM - SECOND. The minimum dimension W4 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 paris.

HIP ROOM—SECOND, Measured in the same manner as

W6

175.

SGRP-SECOND TO HEEL. The dimension measured vertically from the SGRP-second to the two dimensional H31

device heel point on the depressed floor covering.

UPPER BODY OPENING TO GROUND - SECOND. The H51 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.

EFFECTIVE HEAD ROOM – SECOND. The dimension measured along a line 8 deg: rear of vertical from the SgRP H63

to the headlining, plus 102 mm (4.0 in.). FLOOR COVERING - DEPRESSED - SECOND. The di-H73 mension measured vertically from the heel point to the underbody sheet metal.

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 estiamtes 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.

.ation Wagon - Third Seat Dimensions

- LBS 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
 - ured along a line 8 deg. from the SgRP-third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 SGRP THIRD TO HEEL POINT.
- SD 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 neight 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.
- 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:

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

Measured in mm:

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

METRIC (U.S. Customary)

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

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.

TRUCKS AND MPV'S WITH OPEN AREA. V5 Measured in inches: 1

> L506 x W505 x H503 1728

Measured in mm:

L506 x W500 x H503 m³ (cubic meter) 109

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

> L204 x W500 x H505 1728

Measured in mm:

L204 x W500 x H505 # ரா³ (cubic meter) . 109

HIDDEN LUGGAGE CAPACITY-REAR OF SECOND V8 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:

H201 x L205 x W4 + W201 1728

Measured in mm:

H201 x L205 x W4 + W201

= m3 (cubic meter) 109

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).

CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent L208 to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle

zero "Y" plane.
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.

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.

FRONT SEATBACK TO LOAD HEIGHT. The dimension H197 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:

Measured in mm;

V4 HIDDENLUGGAGE 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.

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

Measured in inches:

$$\frac{\frac{1210 + 1211}{2} \times W4 \times H198}{2} = h^3$$

Measured in mm-

$$\frac{L210 + L211}{2} \times W4 \times H198$$
= m³ (cubic meter)

MVMA Specifications METRIC (U.S. Customary)

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