# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

1992

Manufacturer

Mitsubishi Motors Corporation

Mailing Address

33-8, Shiba 5-chome, Minato-ku, Tokyo, 108, Japan

Vehicle Line

Mitsubishi Eclipse

Issued

1991-10

Revised

Direct questions concerning these specifications to the manufacturer listed above.

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



Motor Vehicle Manufacturers Association of the United States, Inc.

Forms Provided by Technical Affairs Division

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

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#### NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.

2. UNLESS OTHERWISE INDICATED:

a. Specifications apply to standard models without optional equipment. Significant deviations are noted.

b. Nominal design dimensions are used throughout these specifications.

- c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
- 3. The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.

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

Vehicle Line Mitsubishi Eclipse 1992 Issued 1991-10 Revised (\*) Model Year \_\_

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

Vehicle Origin

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

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
2 DOOR		D21AMNJEL 4M/9M	4 (2/2)	28 Kg	- 23/32
Coupe		D21AMRJEL 4M/9M		(62 1bs)	23/30
(FWD)		D21AMNHEL 4M/9M			23/32
		D21AMRHEL 4M/9M			23/30
		D22AMNHML 4M/9M			22/29
		D22AMRHML 4M/9M			22/27
		D22AMNPFL 4M/9M			21/28
		D22AMRPFL 4M/9M			19/23
				1	
	,				:

<sup>\*</sup> FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive

Vehicle Line Mitsubishi Eclipse

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## **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		В	С	D
EZ	Engine Code		4G	37	4G63		4G63	4Ġ63
	Displacement Liters (in <sup>3</sup> )		1.755(107)		1.997(122)		1.997(122)	1.997(122)
	Induction system (FI, Carb, etc.)		F.	I.	F.I.		F.I.	F.I.
G	Compression ratio		9.	.0	9.0		7.8	7.8
Ë	SAE Net	Power kW (bhp)	69(92)	at 5000	101(135)	at 6000	145(195) at 6000	134(180) at 5500
	at RPM	Torque N • m (tb. ft.)	142(105) at 3500		169(125) at 5000		275(203) at 3000	265(195) at 3000
	Exhaus single		Du	ıal	Di	īsi	Single	Single
TR	Transm Transa		*1 Manual 5-Speed	*2 Automatic 4-Speed	*1 Manual 5—Speed	*2 Automatic 4-Speed	Manual 5-Speed	Automatic 4-Speed
A N S	Axie Ra (std. firs		4.322	4.007	4.322	4.007	4.153	4.376

Series /	Availability	Power Teams (A - B - C - D)		
Model	Code	Standard	Optional	
Door Coupe	D21AMNJEL	A*1	-	
(FWD)	D21AMRJEL	A*2	-	
<del></del> -	D21AMNHEL	A*1	-	
	D21AMRHEL	A*2		
<del></del>	D22AMNHML	B*1	-	
	D22AMRHML	B*2	-	
	D22AMNPFL	С	_	
	D22AMRPFL	D	<u>-</u>	

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

Engine Description **Engine Code** 

4G37(1.75	5 Liters)	4G63(1.99	7 Liters)	4G63 with Turbo	(1.997 Liters)
MT	AT	MT	AT	MT	AT

## ENGINE - GENERAL

		<del></del>			
Type & description (inline, V, angle,		In line.	In line.		
flat, location, from transverse, longi	nt, mid, rear, itudinal, sohc, dohc,	Front.	Front.		
ohv, hemi, wedge, pre-chamber, etc.)		Transverse, SOHC	1		
		<u> </u>	Transverse, DOHC		
Manufacturer		M	itsubishi Motors Corp.		
No. of cylinders			4		
Bore		80.6	85.0		
Stroke		86.0	88.0		
Bore spacing (C		87.5	93		
Cylinder block m	aterial & mass kg (lbs.) (machined)	Cast iron, 34.2 (75.4)	Cast iron, 37.5 (82.7)		
Cylinder block de	eck height	230.2	229		
Cylinder block ler	ngth	385.5	400.5		
Deck clearance ( (above or below)	(minimum) block)	Above 0.5 mm	0.0 mm		
Cylinder head ma	aterial & mass kg (fbs.)	Aluminum alloy, 6.2 (13.6)	Aluminum alloy, 11.5 (25.4)		
Cylinder head vo	lume cm³ (inches³)	57.9	45.5		
Cylinder liner ma	terial		N. A.		
Head gasket thick (compressed)	kness	1.35	1.25		
Minimum combus total volume cm <sup>3</sup>		54.1	61.7 72.7		
Cyl. no. system	L. Bank		N.A.		
(front to rear)*	R. Bank	N.A.			
Firing order	7141.	1-3-4-2			
	naterial & mass kg (lbs.)**				
	f material & mass kg (lbs.)**	Trainitian array of (11.0)			
	Imber & location)	Cast iron, 5.7 (12.6) Cast iron, 7.7 (17.0) Cast iron, 5.1 (11.2) 4637, 4663: N.A., 4663 with Turbo: 1, Left side middle portion of cylinder block			
	eaded, diesel, etc.	Unleaded Unleaded			
	dex (R + M) + 2	No less than 87 No less than 91 or 87 with			
	Quantity	10 1622	A knock control		
Engine	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	D. L			
Mouπts	Added isolation (sub-frame, crossmember, etc.)	Crossmember and Centermember			
Total dressed enc	gine mass (wt) dry***	120 115	150   145   165   155		
Engine – Pi		110	130 143 103 133		
Material & mass. g (weight, oz.) - piston only		Aluminum alloy.	Aluminum alloy,   Aluminum alloy,		
		322 (11.4)	343 (12.1) 362 (12.8)		
Engine – Ca	emshaft				
ocation		Center of IN. and EX. valve on cylinder-head	Above each IN. and EX. valve on cylinder-head		
Material & mass k	g (weight, fbs.)	Cast iron,	Cast them IN-1 0 (4 2) EV-1 0 (4 2		
		2.32 (5.27)	Cast iron, IN:1.9 (4.2), EX:1.9 (4.2		

<sup>\*</sup> Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

Width / pitch

19.05/9.525

Belt

29/9.525

<sup>&</sup>quot; Finished state.

<sup>\*\*\*</sup> Dressed engine mass (weight) includes the following:

<u>Mi</u>tsubishi <u>Eclipse</u> Issued 1991-10 Revised (\*)

METRI	C (U.S. C	ustomary)	Model feat	(SSUBD 1991-10	Revised (+)		
Engine Description Engine Code			4G37 (1.755 Liters	) 4G63 (1.997 Liters)	4G63 with Turbo (1.997 Liters)		
Engine	– Valve S	ystem					
Hydraulic lil	fters (std., opt.	, n.a.)		Std.	·		
Valves	Numberi	ntake / exhaust	4/4		3/8		
	Head O.D	), intake / exhaust	42/34	34/	30.5		
Engine	- Connec	ting Rods					
Material & mass kg., (weight, lbs.)*			Forged iron, 0.612(1.35	) Forged iron	0.69 (1.52)		
Length (axe	s C/L to C/L)		153.7		0.0		
Engine -	– Cranksi	haft					
Material & n	nass kg., (wek	ght, (bs.)*	Forged iron, 12.4(27.3)	Forged iron	16.3 (35.9)		
End thrust to	aken by bearir	ng (no.)		. 3			
.engih & nu	imber of main	bearings		23mm. 5			
Seal (materi	ial, one, two	Front		nthetic rubber, One pi			
piece design	n, etc.)	Rear	Syr	nthetic rubber, One pi	ece		
Normal oil p	ressure kPa (	tion System psi) at engine rpm	300 (42.7) at 2000				
Type oil inta	ake (floating, s		Stationary				
<del></del>	tem (full flow,		Full flow				
Capacity of	c/case, less li	ter-refill-L (qt.)	3.5	4	.0		
Engine ·	– Diesel I	nformation			·		
Diesel engir	ne manufactur	er		<b>–</b>			
Glow plug, o	current drain a	1 O'F					
Injector	Туре						
nozzle	Opening	pressure kPa (psi)					
Pre-chambe							
Fuel in-	Manufact	urer		<u> </u>			
ection pump	· , , pc		-				
		(belt, chain, gear)	-				
	tary vacuum s	ource (type)		-	<u> </u>		
Fuel heater	,		<u> </u>				
Water separator, description (std., opt.)		on	-				
Turbo manufacturer			<b>-</b>				
Oil cooler-ty oil to ambie	pe (oil to engi nt air)	ne coolant;	-				
Oil filter				<u> </u>			
Engine -	– Intake S	System					
	er - manufacti			V. A.	Mitsubishi Heavy Industries L		
<del></del>				<del> </del>	<del>,</del>		

<sup>\*</sup> Finished State

Intercooler

Super charger - manufacturer

N.A.

N.A.

Std.

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Engine Des		4G37(1.7	55 Liters)	4G63(1.99	7 Liters)	4G63 with	
Engine Cod	le	MT	AT	MT	ΑT	(1.997 Lit	ers)
ingine -	- Cooling System						
coolant reco	very system (std., opt., n.a.)	1		St	d.	<del></del>	
	cation (rad., bottle)				tle	·	
Radiator cap relief valve pressure kPa (psi)		<u> </u>		8		<del> </del>	
Circulation Type (choke, bypass)			<del></del>	Choke			
nermostat	Starts to open at *C (*F)	88 (190,4)					
	Type (centrifugal, other)			Centri		<del> </del>	
	GPM 1000 pump rpm			-	•	<del></del>	
	Number of pumps			•			
/ater	Drive (V-belt, other)			V ribbe	ed belt		
ump	Bearing type	Rolle	r and Ball.			manently seal	ed
	Impeller material		Cold-		bon steel s		
	Housing material				ie casting		
y-pass recir	culation type (inter., ext.)		<del></del>	Exte	rnal	<del></del>	
oolina	With heater - L(qt.)		5.0		7.	0	
ystem	With air conditioner - L(qt.)		5.0		7.	0	
pacity	Opt. equipment specify – L(qt.)	N.A.					
ater jackets	s full length of cyl. (yes, no)	Yes					
ater all arou	und cylinder (yes, no)	No No					
/ater jackets	open at head face (yes, no)	No .					
	Std., A/C, HD	Std. and A/C					
	Type (cross-flow, etc.)	Down-flow					
ladiator	Construction (fin & tube mechanical, braze, etc.)	Tube and Corrugated Fin Brazed					
ore	Material, mass kg (wgt., lbs.)	Brass & Copper, 3.7	Brass & Copper, 4.05	Brass & Copper, 5.35	Brass & Copper, 5.7	Brass & Copper,	5.35
	Width	1	113 8		58		
	Height				50		
	Thickness	16 32					
	Fins per inch	20 17					
adiator end	tank material	Plastic					
	Std., elec., opt.	Electric					
	Number of blades & type (flex, solid, material)			4			
	Diameter & projected width			32	0		
	Ratio (fan to crankshaft rev.)			N. /		<del></del>	
ın	Fan cutout type		· -	N, /	<del>1</del> .		
	Drive type (direct, remote)			N. /			
	RPM at idle (elec.)	2150			2080		
	Motor rating (wattage elec.)	80	<u> </u>	<del> </del>	120	<del> </del>	
	Motor switch (type & location elec.)		<del></del> -	Thermo Sw			
	Switch point (temp., pressure elec.)			78°C-	85°C		
	Fan shroud (material)			Plas			

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

Engine Description Engine Code 4G37 (1.755 Liters) 4G63 (1.997 Liters) 4G63 with Turbo (1.997 Liters) MT AT

Engine Code				131				
Engine -	Fuel System (See supplem	ental page for detailes of Fuel Injection, Suj	percharger, Turbocharger, etc. if use	ed)				
Induction type: injection system	carburetor, fuel n, etc.	Fuel Injection						
Manufacturer Carburetor no, of barrels Idle A/F mix.		Nic	pon Injector Co.,L	td.				
			-					
			14.7					
_	Point of injection (no.)		Inlet port (4)					
Fuel injection	Constant, pulse, flow	6.07mm <sup>3</sup> / 2.5 msec   6.09 mm <sup>3</sup> / 2.2 msec   8.07 mm <sup>3</sup> / 1.8 msec   7.10 mm <sup>3</sup>						
rijection	Control (electronic, mech.)		Electronic	. <u></u>				
	System pressure kPa (psi)	329 (4	7.71)		294 (42.67			
Idle spdrpm	Manual	700 rpm	75	0 rpm	<del></del>			
(spec. neutral				•				
or drive and propane if used)	Automatic	700rpm(650rpm Drive)	750rpm(6	<u>50rρm Drive)</u>				
Intake manifold or water thermo	I heat control (exhaust ostatic or fixed)		N.A.	· · · ·				
Air cleaner type	b		Ory non-woven cloth	1				
Fuel filter (type			Paper, Engine room					
	Type (elec. or mech.)		Electric	_				
Fuel	Location (eng., tank)	In tank						
pump	Pressure range kPa (psi)	250 ~ 328 (36 ~ 48) 294 ~ 378(43						
	Flow rate at regulated pressure L (gal)/hr (w kPa (psi)		3.8) @ 250 (36)		125(33.0) @ 294(43)			
Fuel Tank								
Capacity refill L	(gallons)	60 (15.9)						
Location (descr	ribe)	Under rear seatpan						
Attachment		Strap						
Material & Mas			JUIAD					
Material & Mass kg (weight lbs.)			Steel, 13.2					
Filler	s kg (weight lbs.)  Location & material	Left.	Steel, 13.2	. Steel				
	1	Left.	Steel, 13.2 rear quarter panel Rubber hose	. Steel				
	Location & material Connection to tank	Left.	Steel, 13.2 rear quarter panel	. Steel				
pipe Fuel line (mate	Location & material Connection to tank rial)	Left.	Steel, 13.2 rear quarter panel Rubber hose	. Steel				
pipe Fuel line (mate Fuel hose (mat	Location & material Connection to tank rial) erial)	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel	. Steel				
pipe Fuel line (mate Fuel hose (mat Return line (ma	Location & material Connection to tank rial) terial) sterial)	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel Rubber	. Steel				
pipe Fuel line (mate Fuel hose (mat Return line (ma	Location & material Connection to tank rial) terial) sterial)	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel Rubber Steel	. Steel				
pipe Fuel line (mate Fuel hose (mat Return line (mat Vapor line (mat	Location & material Connection to tank nial) terial) terial)	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel Rubber Steel Steel N.A. N.A.	. Steel				
Fuel line (mate Fuel hose (mat Return line (mat Vapor line (mat Extended range	Location & material Connection to tank nial) terial) terial) terial) Opt., n.a.	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel Rubber Steel Steel N.A. N.A.	. Steel				
Fuel line (mate Fuel hose (mat Return line (mat Vapor line (mat Extended range	Location & material Connection to tank rial) erial) sterial) terial) Opt., n.a. Capacity L (gallons)	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel Rubber Steel Steel N.A. N.A. N.A. N.A.	. Steel				
Fuel line (mate Fuel hose (mat Return line (mat Vapor line (mat Extended range	Location & material Connection to tank mal) lerial) sterial) lerial) Opt., n.a. Capacity L (gallons) Location & material	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel Rubber Steel Steel N.A. N.A.	. Steel				
Fuel line (mate Fuel hose (mat Return line (mat Vapor line (mat Extended range	Location & material Connection to tank mial) terial) terial) terial) Opt., n.a. Capacity L (gallons) Location & material Attachment	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel Rubber Steel Steel N.A. N.A. N.A. N.A.	. Steel				
pipe Fuel line (mate Fuel hose (mat Return line (mat Vapor line (mat Extended range tank Auxiliary	Location & material Connection to tank mal) terial) terial) terial) Opt., n.a. Capacity L (gallons) Location & material Attachment Opt., n.a.	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel Rubber Steel Steel N.A. N.A. N.A. N.A. N.A.	. Steel				
pipe Fuel line (mate Fuel hose (mat Return line (mat Vapor line (mat Extended range tank Auxiliary	Location & material Connection to tank rial) (erial) (erial) (erial) (opt., n.a. Capacity L (gallons) Location & material Attachment Opt., n.a. Capacity L (gallons)	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel Rubber Steel Steel N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	, Steel				
Filler pipe  Fuel line (mate Fuel hose (mat Return line (mat Vapor line (mat Vapor line ange tank)  Auxiliary tank	Location & material Connection to tank rial)  terial)  terial)  Opt., n.a. Capacity L (gallons) Location & material Attachment Opt., n.a. Capacity L (gallons) Location & material Attachment Opt., n.a. Capacity L (gallons) Location & material	Left.	Steel, 13.2 rear quarter panel Rubber hose Steel Rubber Steel Steel N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	, Steel				

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Engine Description Engine Code

Vehicle Line _	Mitsubish		
Model Year _	1992 iss	ued <u>1991-10</u>	Revised (•)

4G37 4G63 4G63 with Turbo (1.755 Liters) (1.997 Liters) (1.997 Liters)

#### **Vehicle Emission Control**

	Type (air injection, engine modifications, other)		Three-way catalyst with feedback control. Exhaust gas recirculation			
		Pump or pulse		N.A.		
		Driven by		N.A.		
	Air Injection	Air distribution (head, manifold, etc.)		N. A.		
		Point of entry		N.A.		
Exhaust Emission Control	Exhaust Gas	Type (controlled flow, open orifice, other)	Controlled fl	ow (Calif. only; and electronic)		
	Recircula-	Exhaust source		Cuba at the act of the		
	tion	Point of exhaust injection (spacer, carburetor, manifold, other)	Exhaust Manifold Port No.2 Intake manifold	Exhaust Manifold Port No.4 Intake manifold		
		Туре	Three-way			
	1	Number of				
		Location(s)	Under floor			
	Catalytic	Volume L (in <sup>3</sup> )	Calif.; 1.0 (61.	02) + 0.7 (42.71), Fed; 1.7 (103.7)		
	Converter	Substrate type	Monolith			
		Noble metal type	_			
		Noble metal concentration (g'cm³)	-			
	Type (ventilates to atmosphere, induction system, other)		Induction System			
Crankcase Emission		rce (manifold rburelor, other)	Intake Manifold Vacuum			
Control	Discharges manifold, of	to (intake her)	To intake manifold			
	Air inlet (bre	eather cap, other)		Air intake hose		
Evapora-	Vapor vente			Canister		
ve mission	canister, of					
ontrol	Vapor stora	ge provision		Canister		
Electronic	Closed loop	(yes no)		Yes		
system	Open loop (	yes:no)		Yes		

#### Engine - Exhaust System

Type (single, single with cross-over, dual, other)  Muttler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight fbs)  Resonator no. & type		Single with cross-over			
				One (Reverse flow) Stainless steel, 6.4 (14.1)	
				-	
	Branch o.d., wall thickness	42.7 X 2.0 (Dual)		54 X 1.5	
Exhaust pipe	Main o.d., wall thickness	48.6X1.5, 54X1.5		54 X 1.5	
	Material & Mass kg (weight lbs)	Stainless steel tube, 5.7(12.6)	Stainless steel tube, 5.8(12.8)	Stainless steel tube, 5.7(12.6)	
Inter-	o.d. & wall thickness	48.6X1.5, 48.6X2.0	54X1.5, 54X2.0	54X1.5	
mediate pipe	Material & Mass kg (weight lbs)	Stainless steel tube, 4.9(10.8)	Stainless steel tube, 5.2(11.5)	Stainless steel tube, 5.9(13.0)	
Tail pipe	o.d. & wall thickness	48.6 X 1.2	38.1 X 1.2(Dual)	42.7 X 1.2(Dual)	
	Material & Mass kg (weight lbs)	Stainless steel tube, 0.3(0.7)	Stainless steel tube, 0.8(1.8)	Stainless steel tube, 0.9(2.0)	

# MVMA Specifications Vehicle Line Mitsubishi Eclipse Model Year 1992 Issued 1991-10 Revised (\*)

Engine Description
Engine Code

4G37(1.755 Liters) 4G63(1.997 Liters)

4G63 with Turbo (1.997 Liters)

Ø Transmissions/Transaxie (Std., Opt., N.	Transmissions/Transaxie (Std., Opt., N.A.)							
Manual 4-speed (manufacturer/country)	N.A.							
Manual 5-speed (manufacturer/country)	Std., Mitsubishi Motors Corp./Japan							
Manual 6-speed (manufacturer/country)	N.A.							
	A4 A							

Automatic (manufacturer/country)

Automatic overdrive (manufacturer/country)

Std., Mitsubishi Motors Corp./Japan

#### Manual Transmission/Transaxle

Number of fo	orward speeds	5	
-	1st	3.363	3.090
	2nd	1.947	1.833
	3rd	1.285	1.217
•	4th	0.939	0.888
Gear ratios	5th	0.756	0.741
	6th		_
	Reverse	3.083	3.166
Synchronous	s meshing (specify gears)	1,2,3,4,5	
Shift lever lo	cation	Floor	
Trans, case	mat1. & mass kg (fbs)*	Aluminum alloy, 9.9 (21.8)	Aluminum alloy, 11.5 (25.4)
Lubricant	Capacity L (pt.)	1.8 (3.8) 2.2 (4.6)	
Luonçant	Type recommended	Multipurpose gear oil confo	rming to API GL-4

#### **Clutch (Manual Transmission)**

Clutch manufacturer			Aishin Seiki Co., Ltd.	Daikin Manufact	uring Co., Ltd.	
Clutch type (dry, wet; single, multiple disc)				Dry single plate		
Linkage (hy	draulic, cable,	rod, lever, other)		Hydraulic		
Max. pedal effort (nom. Depressed		Depressed		123 (27.7)		
spring load)	N (Ibs)	Released		83 (18.7)		
Assist (spring, power percent, nominal) No					Spring/25Kg	
Type pressure plate springs				Diaphragm	-	
Total spring	load (nominal)	N (lbs)	4168 (937)	4511 (1014)	6178 (1389)	
	Facing m	ifgr. & material coding	Hitachi Chemical Co., Ltd.			
	Facing n	naterial & construction	Woven (Asbestos)	Woven (Nor	-Asbestos)	
	Rivets po	er facing		16		
	Outside x inside dia. (nominal)		200 x 130 (mm)	215 x 140 (mm)	225 x 150 (mm)	
	Total eff.	area cm²(in.²)	363 (56.3)	418 (64.8)	442 (58.5)	
Clutch facing		is (pressure plate rheel side)		3.5/3.5	(mm)	
		oth (pressure plate rheel side)	1.6/1.6	(mm)	1.3/1.3 (mm)	
	Engagen	nent cushion method		Flat-wave spring		
Release bea	ering type & m	ethod lub.	Ball bearing, permanently lubricated			
Torsional da	imping method	, springs, hysteresis	Damper rubbers	-coil springs and Fr	iction washers	

<sup>\*</sup> Includes shift linkage, lubricant, and clutch housing. If other specify.

#### Mitsubishi Eclipse Vehicle Line **MVMA Specifications** Issued 1991-10 1992 Model Year Revised (\*) **METRIC (U.S. Customary) Engine Description** D21A (SOHC, MPI) D22A (DOHC, NA) **Engine Code Automatic Transmission/Transaxle** Mitsubishi Motors Corp. F4A22 Trade Name Torque converter with automatically operated Type and special features (describe) Planetary gear Transmission Electronic control F4A22 Location (column, floor, other) Lever : Console mounted Gear Ltr./No. designation (e.g. PRND21) <u>P.R.N.D.2.L. /</u> 6 selector Shift interlock (yes, no, describe) Shift lock with Key inter lock 151 2.846 2nd .581 3rd 1.000 4th Gear 0.685 5th Ø 6th Reverse 2.176 1-2 48/41 (30/26), 2-3 94/80 (59/50), 1-2 59/50 (37/31), 2-3 113/95 (71/59), Max. upshift speed - drive range km/h (mph) 3-4 167/142 (104/89) 3-4 197/169 (123/106) 2-1 43/35 (27/22), 3-2 86/73 (54/46), Max. kickdown speed - drive range km/h (mph) 2-1 45/35 (28/22), 3-2 107/86 (67/54), 4-3 150/127 (94/79) 4-3 172/151 (108/94) Min. overdrive speed km/h (mph) 28 (18 29 (18) Number of elements Three Max. ratio at stall Torque 2.0: converter Type of cooling (air, liquid) Liquid Nominal diameter 230 Capacity factor "K" 240 Capacity refill L (pt.) 6.1 (13.0) Lubricant DIA ATF-SP or MITSUBISHI ATF PLUS automatic Trans.fluid Type recommended Oil cooler (std., opt., N.A., internal, external, air, liquid) Std.. External liquid Transmission mass kg (lbs) & case material\*\* 13.8 (30.5). Aluminum alloy \*: Power/Economy All Wheel / 4 Wheel Drive

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)

Manufacturer and model

Transfer
case
Type and location

Low-range gear ratio

System disconnect (describe)

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

Torque split (% front/rear)

\_

<sup>\*</sup> Input speed + / Torque

<sup>\*\*</sup> Dry weight including torque converter, if other, specify.

#### Mitsubishi Eclipse Vehicle Line \_ **MVMA Specifications** Issued 1991-10 Revised (-) 1992 Model Year \_ **METRIC (U.S. Customary)** D22A (DOHC, T/C) **Engine Description** Engine Code Automatic Transmission/Transaxle Mitsubishi Motors Corp. F4A33 Trade Name Torque converter with automatically operated Type and special features (describe) Planetary gear Transmission Electronic control F4A33 Lever : Console mounted Location (column, floor, other) Gear P.R.N.D.2.L / 6 Ltr./No. designation (e.g. PRND21) selector Shift lock with key inter lock Shift interlock (yes, no, describe) 2.551 1.488 2nd 1.000 3rd 0.685 4th Gear \_ Ø 6th 2.176 Reverse 1-2 54/43 (34/27), 2-3 103/103 (64/64), 3-4 148/148 (93/93) Max. upshift speed - drive range km/h (mph) 2-1 42/31 (26/19), 3-2 93/93 (58/58), 4-3 133/133 (83/83) Max. kickdown speed - drive range km/h (mph) 26 (16) Min. overdrive speed km/h (mph) Three Number of elements 1.7:1 Max. ratio at stall Torque converter Type of cooling (air, liquid) Liquid 260 Nominal diameter 224 Capacity factor "K"\* 7.0 (14.9) Capacity refit L (pt.) Lubricant DIA ATF-SP or MITSUBISHI ATF PLUS automatic Trans, fluid Type recommended Std. External liquid + air Oil cooler (std., opt., N.A., internal, external, air, liquid) 15.5 (34.2). Aluminum alloy Transmission mass kg (lbs) & case material\*\*

\*: Power/Economy

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

<sup>\*</sup> Input speed + / torque

All Wheel / 4 Wheel Drive

<sup>\*\*</sup> Dry weight including torque converter. If other, specify.

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

Facine	Description
Engine	Code

Vehicle Line Mitsubishi Eclipse

4G37(1.755 Liters)ar	nd 4G63(1.997 Liters)	4G63 with Turb	o(1.997 Liters)
MT	AT	MT	AT

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

Effective final drive ratio (or overall top gear ratio)		3,941	3,562	3.437 3.562
tio and method	(chain, gear, etc.)			,
Ring gea	nr o.d.	179.3	175.7	187.7 199.5
No. of	Pinion	17		16
teeth	Ring gear	67	57	55   57
	Ring gea	Ring gear o.d.  No. of Pinion	al drive ratio (or overall top gear ratio) 3, 941 iio and method (chain, gear, etc.)  Ring gear o.d. 179.3  No. of Pinion 17	al drive ratio (or overall top gear ratio) 3, 941 3, 562 iio and method (chain, gear, etc.)

#### **Front Drive Unit**

Description (integral to trans., etc.)		Separable	
Limited slip differential	(type)		
Drive pinion	Туре	-	
	Offset	• •	
No. of differential pinion	s	2	
Pinion / differential	Adjustment (shim, etc.)	Shim	
THE STATE OF THE S	Bearing adjustment	Shim	
Driving wheel bearing (t	ype)	Double row angular contact ball bearing	
ubricant Capac	sity L (pt.)	Refer to transmission Spec.	
	recommended		
_uoncant		Refer to transmission Spec.  Refer to transmission Spec.	

#### Axie Shafts - Front Wheel Drive

Manufacture	r and number	used			NTN Co., Ltd.	
Type (straight, solid bar, tubular, etc.)			Straight bar	<del>"                                    </del>		
· / / · · · · · · · · · · · · · · · · ·	Right		Straight bar			
	Manual t	Manual transaxle		26 X 708 26 X 706 30 X 70		
Outer	**********		Right	23.2 X 368	24 X 366	24 X 366
diam, x length* x	Automati	Automatic transaxle		26 X 708	26 X 706	30 X 702
wall thickness	7.010	C () E/-SEATE	Right	23.2 X 368	24 X 366	24 X 370
u	Optional	transaxie	Left		-	
	Opinorial transaxia		Right			
	Type Number of teeth		-		None	
Slip rok <b>e</b>			-			
	Spline o.d.		-			
	Make and mfg. no.		Inner	-	NTN Co., Ltd.	
				NTN Co., Ltd.		
	Number u	ised		Two X Two		
Universal			Inner	C.V. joint		
oints	Type, size		Outer	C.V. joint		
	Attach (u-	bolt, clamp, etc)				
	Bearing	Type (plain, anti-friction)			<u> </u>	
		Lubrication (fitting, prepack)		-		
)rive taken ti irms or sprin	Orive taken through (torque tube, arms or springs)		<del></del>	Lower arm and Strut		
Torque taken arms or sprin	through (torq	ue tube,		Lower arm and Strut		

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

MVMA Specifications		Vehicle Line	2001 40	
METRIC	C (U.S. Customary)	Model Year1992 Issued	1991-10 Revised (*)	
	e'Description And'Or de'Description	D21A	D22A	
Suspens	sion – General Including Electi	ronic Controls		
Standard optional not avail.		N.	Δ	
	Manual automatic control		Ä	
	Type (air-hydraulic)	N.		
Car Primary assist spring			A	
eremig	Rear only'4 wheel leveling	N.		
	Single dual rate spring	N.		
	Single dual ride heights	N.		
	Provision for jacking	N.	A	
	Standard option not avail.	N.	A	
	Manual automatic control	N.	A	
	Number of damping rates	N.	Α	
Shock absorber damping	Type of actuation (manual/ electric motor air, etc.)	N.	A.	
controls	S Lateral acceleration	N.	A	
	n Deceleration		A	
	O Acceleration	N.	A	
	5 Road surface		Α.	
Shock	Туре	Front: Strut Type.	Rear : Telescopic Type	
absorber (front &	Make		stry Co. Ltd. or GENERAL MOTORS DELCO DIVISION	
rear)	Piston diameter	Front: 32.	Rear : 25 (mm)	
<del>_</del>	Rod diameter	Front : 22.	Rear: 12.5 (mm)	
Type and de	scription	Independent	Strut Type	
	E. II in one (defen tood and district)			
Travel	Full jounce (define load condition) Full rebound	92 (mm)		
	Type (coil, leaf, other & material)	78 (mm) Coil (9254 Steel,	87 (mm) Specified in SAE)	
	Insulators (type & material)	CO11 (9254 Steet.	Specified in SAL)	
5	Size (Leaf: length & width: Coil: design	227 1146 6 225 146 4		
Spring	height & i.d.; Bar; length & diameter)	327 X 146.6 or 335 x 146.4	314 x 146.3 or 322 x 146.1	
	Spring rate [N mm (lb./in.)]	21.6 (123.2)	23.5 (134.4)	
	Rate at wheel [N'mm (lb.in)]	20.3 (116.0)	22.1 (126.3)	
Stabilizer	Type (link, linkless, frameless)		nk	
0	Material & O.D. bar tube, wall thickness	ASB 25N. 17.3 (mm)	Spring steel, 19 (mm)	
Suspens	ion – Rear			
Type and des	scription	3-Link torsion axle		
Trave!	Full jounce (define load condition)	110 (mm)	100 (mm)	
	Full rebound		75 (mm)	
	Type (coil, leaf, other & material)	Coil (9254 Steel.	Specified in SAE)	
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	337 x 84.9	317 x 84.8	
Spring	Spring rate [N'mm (lb./in.)]	19.6 (112.0)	22.5 (128.8)	
	Rate at wheel [N mm (lb./in.)]	19,6 (112,0)	22.5 (128.8)	
	Insulators (type & material)		er pad	
	H No. of leaves		-	
	leaf Shackle (comp. or tens.)		<b>-</b>	
Stabilizer	Type (link, linkless, frameless)	R	ar	
	Material & O.D. bar tube, wall thickness	S38C, 20 (mm)	\$38C, 25 (mm)	
Track bar (typ	·· <del>···································</del>	To a Committee		

Vehicle Line Mitsubishi Eclipse Issued 1991-10 Revised (\*)

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

Model Code/Description And/Or Engine Code Description  Brakes — Service				4G37 (1.755 Liters)	4G63 (1.997 Liters)	4G63 with Turbo (1.997 Liters)
Description					_	
Manufacturer	and	Front (disc or dr	ım)	AKEBONO B	rake Industry Co., l	td., Disc
brake type (si	td., opt., n.a.)	Rear (disc or dru	m)	AKEBONO B	rake Industry Co. 1	td. Disc
Valving type (	(proportion, de	lay, metering, other)	<u></u>		Proportion valve	
Power brake (std., opt., n.a.)					Std.	
Booster type (remote, integral, vac., hyd., etc.)					Integral	
	Source (in	line, pump, etc.)			Inline	
Vacuum Reservoir (volume in.3)			-			
	Pump-type	e (elec, gear driven, b	elt driven)		-	
Traction	Operation	al speed range			-	
control	Type (eng	ine or brake interven	tion)			
	Front / rea	r (std., opt., n.a.)		N.A.	Opt. (From	t and Rear)
	Manufactu	rer		N.A.		ABS_LTD
Anti-lock	Type (elec	tronic, mech.)		N.A.		tronic
device	Number s	ensors or circuits		N.A.		3
	Number a	nti-lock hydraulic circu	iits	N.A.		4
	Integral or	add-on system		N.A.	Ado	d-on
	Yaw contri	ol (yes, no)		N.A.		Vo
Hydraulic power source (elec., vac. mtr., pwr, strg.)			ntr., owr. strg.)	N.A		
Effective area cm²(in.²)*				F: 187 (29.0) / R: 120 (18.6)		
Gross Lining	area cm²(in.²)	*(F/R)		F: 193 (29.9) / R: 120 (18.6)		
Swept area ci	m²(in.²)***(F/A	<u> </u>		F: 1192	(184.8) / R: 1177	(182.5)
	Outerwork	Outerworking diameter F/R		F: 25		(mm)
Rotor	Inner work	ing diameter	F/R	F: 16		(mm)
	Thickness	·	F:R	F: 2	4 / R: 10	(mm)
	Material &	type (vented/solid)	F/R	F: Cast iro	on vented / R: Cast	iron solid
Drum	Diameter	width	F/R		-	
	Type and	material	F.R		***	
Wheel cylinde	er bore	<u> </u>			F: 53.97 / R: 30.16	
Master cylinde	er Bo	re/stroke	F/R	Sore: 22.27.Strose: Primary: I3. Secondary: 15 (mm)	Sore: 22.22/Stroke: Primary 13. Secondary: 15 (mm)(Out.A35 23.81/13:15)	Bors: 23,21 Stroke: Primary: 13, Secondary: 15 (mm)
Pedal arc ration		<del></del>			4.4	
		lb.) pedal load [kPa (		12162(1773)	12162(1773) Opt. ABS 12656 (1844)	12656(1844)
ining clearan	ce		F/R	f:No major adjustmen	t required/R:No major a	djustment required
		Bonded or riveled	(rivets/seg.)		Bonded	
		Rivet size		A 14 17 15 15 15 15 15 15 15 15 15 15 15 15 15		<del></del>
	}	Manufacturer		AKEBUN	O Brake Industry Co	o.,Ltd.
	Front	Lining code*****			AKEBONO NS 153H EF	<u> </u>
	"""	Material Primary o			<u> Molded</u>	
	1	Filliary	r out-board		116 X 41.9 X 10	(mm)
		<del> </del>	y or in-board		116 X 41.9 X 10	(mm)
Brake ning	<b></b>	Shoe thickness (no	<del></del>		6.0	<u>(mm)</u>
·····		Bonded or riveted (	rivets/seg.)	·	Bonded	<del></del>
		Manufacturer		AKEBON	<u>O Brake Industry Co</u>	o.,Ltd.
	Rear wheel	Lining code*****	_		AK NS512 FF	
	winder	Material		<del></del>	<u> Molded</u>	<del></del>
		Primaryo	r out-board		72 X 41.6 X 8.5	(mm)
	] }	<del></del>	or in-board		72 X 41.6 X 8.5	(mm)
		Shoe thickness (no	dining l		6.0	(mm)

<sup>\*</sup> Excludes rivet holes, grooves, chamfers, etc. \*\* Includes rivet holes, grooves, chamfers, etc.

<sup>\*\*\*\*</sup> 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 Pú2 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.

Vehicle Line	Mitsubish	i Ec <u>lipse</u>		
Model Year	1992 Is	sued 1991-10	Revised (+)	

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

Model Code/Description And/Or Engine Code/Description

4G37	(1.755	Liters)	4G63	(1.997	Liters)	4G63 with Turbo (1.997 Liters)

#### Tires And Wheels (Standard)

	Size (load range		P185/70R14.Std load	P205/55R16 89	/, Std load		
	Type (bias, radia	al, steel, nylon, etc.)		Radial			
Tires	Inflation pres- sure (cold) for	Front kPa (psi)	200 (29)				
	recommended max. vehicle load	Rear kPa (psi)					
	Rev./mile-at 70 l	ւու h (45 mph)	858	754	<del></del>		
	Type & material		Disc.		Disc, Aluminum		
	Rim (size & flanc	ge type)	14 X 5 1/2JJ	16 X (	JJ		
Wheels	Wheel offset			46			
		Type (bolt or stud)		Stud			
	Attachment	Circle diameter	114.3				
		Number & size		5, M12 X 1.5			
Spare	Tire and wheel			125/70D15, 4T X 15 ligh pressure tire			
эраге	Storage position (describe)	& location	On cargo Floor				
	id range, ply)		· _	-	_		
	adial, steel, nylon, etc	:.)	_	_	_		
Wheel (type	& material)		-	Disc.Steel or Aluminum	-		
Rim (size, fla	ange type and offset)			16 X 6JJ	_		
Tire size (loa	nd range, ply)		-	P205/55R16, 89H	_		
Type (bias, a	radial, steel, nylon, etc	.)	-	Radial	-		
Wheel (type	& material)		-	Disc, Aluminum			
Rim (size, fla	ange type and offset)		<u> </u>	16 x 6JJ			
Tire size (loa	id range, ply)			<u>-</u>			
Type (bias, i	adial, steel, nylon, etc	.)	•				
Wheel (type	<del></del>						
	inge type and offset)		-				
	d range, ply)						
	adial, steel, nylon, etc	.)					
Wheel (type & material)			<u> </u>				
	inge type and offset)						
•	nd wheel size		T125/80D16, 4T x 16				
road tire or	ation is different than wheel, describe are tire and or wheel	,	-	High Presso	ıre Tire		
	location & storage position)		(Incase ABS is installed on Cargo floor)				

#### Brakes - Parking

Type of control		One handle, Hand-operated
Location of control		Between front seats
Operates on		Rear wheels
	Type (internal or external)	N.A
If separate	Drum diameter	N, A,
from service brakes	Lining size (length x width x thickness)	N. A.

	MVMA	Spe	cifica	ations	Vehicle Line Mitsubishi Model Year 1992 Issu	200	40	sed (•)	<del></del>	
	METRIC	(U.S. C	ustom	агу)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Model Code	Descriptio	n AndiO			D22A	(DOHC)	D22A(	DOHC, T/C)	
	Engine Code			•	D21A	MT	AT	MT	AT	
	Steering						·•-		<del></del>	
	Manual (std.,	opt., n.a.)			Std.		N	.A.	····	
	Power (std., o	pt., n.a.)			Opt.			td.	<del></del> -	
Ø	Speed-sensiti	ve (std., opt.	, n.a.)			Α.		cas		
Ø	4-wheel steen	ng (std., opt	., n.a.)			Α.				
	Adiustable		Туре			ilt				
	steering whee		Manufa	cturer	Mitsubishi Motors Corp.					
	(mr. researche	t. telescope, other) (std., opt., n.a.)		ot., n.a.)	Std.					
	Wheel diamet		Manual		372				<del></del>	
	(W9) SAE J11	/9) SAE J1100			-	372				
		Outside	Wall to wall (I. & r.)		M/S:11.2(36.7) P/S:11.6(38.1)	1	1.6 (38.		12.8(42.0)	
	Turning diameter	front	Curb to	curb (l. & r.)	M/S:10.4(34.1) P/S:10.8(35.4)		0.8 (35.		12.0(39.4)	
	m (ft.)	Inside	Wall to	wall (l. & r.)	M/S: 6.0(19.7) P/S: 6.4(21.0)	6	.4 (21.0	<del> </del>	7.6(24.7)	
		rear	Curb to curb (f. & r.)		M/S: 6.2(20.3) P/S: 6.6(21.7)		.6 (21.	<u> </u>	7.8(25.6)	
	Scrub Radius*				-10.9	-14.3		1 /10(2010)		
			Туре		Rack and pinion		N	.A.		
		Gear Manufacturer		cturer	Koyo Seiko Co., Ltd.	N.A.				
	Manual		Ratios	Gear	<b>-</b> .			.A.		
				Overall	23.8		N	.A.		
		No. whee	tums (st	op to stop)	4.2		N	.A.		
				., hyd., etc.)	Inte				<del></del>	
		Manufact	urer		TRW KOYO STEERING SYSTEMS Co.					
	Power		Туре		Rack an	d Pinio	<u> </u>			
		Gear	Ratios	Gear					1. 17	
		<u> </u>	l	Overall	15.8					
		Pump (dr			V-I	pelt				
		T	turns (st	op to stop)	2.7				2.4	
		Туре			Trailing. equal	length	tie rod	S		
	Linkage	Location (		ar	Re	ear				

Two

Ball bearing

Ball joint N.A.

Ba11

14°20'

Steering axis

Tie rods (one or two)

Bearings (type)

Steering spindle knuckle & joint type

Inclination at camber (deg.)

Upper

Lower

Thrust

14°061

<sup>\*</sup>The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.
\*\*See Page 23.

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

Model Code/Description And/Or Engine Code/Description

Vehicle Line _	Mitsubishi	Eclipse		
Model Year	1992 iss	ued <u>1991-10</u>	Revised (•)	

Da	21A		D224
MNJEL, MRJEL	MNHEL.	MRHEL	D22A

**Wheel Alignment** 

		Caster (deg.)	2°20' ± 30'
	Service checking	Camber (deg.)	0°15' ± 30' 0°05' ± 30!
Front		Toe-in outside track-mm (in.)	$0 \pm 3 \ (0 \pm 0.118)$
	i	Caster (deg.)	
wheel at curb mass	Service reset*	Camber (deg.)	<b>-</b> ·
(wt.)		Toe-in - mm (in.)	<u> </u>
	Periodic M.V. in- spection	Caster (deg.)	
		Camber (deg.)	_
		Toe-in - mm (in.)	-
	Service checking	Camber (deg.)	$-0^{\circ}45' \pm 30'$
Rear		Toe-in outside track-mm (in.)	$0 \pm 3 \ (0 \pm 0.118)$
wheel at curb mass	Service	Camber (deg.)	
wt.)	reset*	Toe-in - mm (in.)	
	Periodic	Camber (deg.)	-
	M.V. in- spection	Toe-in - mm (in.)	-

<sup>\*</sup> Indicates pre-set, adjustable, trend set or other.

## $\varnothing$ Electrical – Instruments and Equipment

Speed-	Type (analog, digital, std., opt.)		Analog (Std.)		
ometer	Trip odometer (st	d., opt., n.a.)	Std.		
	Standard, optiona	II, not available	N. A		
	Туре	Secondary, opto-electronic	N.A.		
	Speedometer	Digital	N. A.		
Head-up display	Status / warning indicators	Turn signals, high beam, low fuel, check gauges	N.A.		
	Brightness control	Day / night mode, adjustable	N. A.		
EGR maintena	nce indicator		N.A.		
Charge	Туре		Voltage relay		
indicator	Warning device (I	ight, audible)	Light		
Temperature	Туре		Cross coil		
indicator	Warning device (I	ight, audible)	Driving pointer		
Oil pressure	Туре		Pressure switch and Electric Thermal		
indicator	Warning device (I	ight, audible)	Light		
Fuel	Туре		Cross coil and Thermistor		
indicator	Warning device (I	ight, audible)	Driving pointer and Light		
	Type (standard)		Electric two speed with variable intermittent		
Wind-	Type (optional)	_	N. A.		
shield wiper	Blade length		500 (DR. Side, AS. Side) (mm)		
	Swept area cm²(in.²)		6427 (996)		
Wind-	Type (standard)	_	Electric		
shield washer	Type (optional)	· · ·	N.A.		
	Fluid level indicat	or (light, audible)	N. A		
Rear window w	iper, wiper/washer (	std., opt., n.a.)	Opt.		
Hom	Туре		80 diameter		
	Number used		One Two		
Other	Other		Brake system and parking brake warning light, Fasten belts warning light, Coolant level warning light.		

#### Vehicle Line \_Mitsubishi Eclipse **MVMA Specifications** 1992 Model Year \_ Issued 1991-10 Revised (\*) **METRIC (U.S. Customary)** 4663 with Turbo (1.997 Liters) 4G37(1.755 Liters) 4G63(1.997 Liters) **Engine Code/Description** AT MT AT MT ΑŤ Electrical - Supply System Manufacturer JOHNSON CONTROLS Model, std., (opt.) BCI Size GROUP 86 Voltage Amps at 0°F cold crank 430 Battery Minutes-reserve capacity 90 Amps/hrs.-20 hr. rate 55 Location Front. right side of engine compartment Manufacturer Mitsubishi Electric Corp. Rating (idle/max. rpm) 65 75 65 Ratio (alt. crank/rev.) 2.29 Alternator 2.65 2.43 2.48 Output at idle (rpm, park) Optional (type & rating) N.A. Regulator Type Voltage control **Electrical - Starting System** Manufacturer Electric Corp. Mitsubishi Current drain . "C("F) Motor Power rating kw (hp) 0.9 Engagement type Solenoid Motor Pinion engages from (front, rear) Front Electrical - Ignition System Electronic (std., opt., n.a.) Std. Туре Other (specify) Manufacturer Flectric Corp F-630 N.A DIAMOND Model N.A Coil Engine stopped - A N.A. 0 Current Engine Idling - A N.A. 1.4 NGK Spark Plug Co., Ltd., Champion Spark Plug Co., Ltd. or Nippon Denso Manufacturer BPR6ES-11, RN9YC4 or W20EPR-11 Model BPRGES, RN9YC or N2OEPR Thread (mm) 14 Spark plug Tightening torque N-m (lb. ft) 20 30 $\sim$ 22 1.0 (mm) $\sim$ 0.8 (mm Number per cylinder Mitsubishi Electric Corp. Manufacturer N.A. Distributor

Electrical - Suppression

Model

•			
Locations & type	İ	_	

N.A.

T6T 57371

MVMA Specifications		ications	Vehicle Line Mitsubishi Eclipse			
	-		Model Year 1992 Issued 1991-10 Revised (*)			
METRIC (	U.S. Cust	omary)				
Model Code/I	Description	:	D21A, D22A			
Body						
Structure			Monocock body			
	•		Impact absorbing system			
			Fascia (Polyurethane)			
Bumper system	1		Energy absorber (Fluid type)			
front - rear			Reinforcement (Steel)			
			Cathodic ED Paint			
			Extended use of galvanized			
Anti-corrosion t	realment		Wax injection			
			Stone chipping resistance coating			
Type of finish (I	lacquer, ename Material & ma	· · · · · · · · · · · · · · · · · · ·	Heat setting acrylic enamel Steel, 17.2 Kg			
Hood	Hinge locatio	n (front, rear)	Rear			
		rbalance, prop)	Prop			
		rol (internal, external)	Internal			
Trunk	Material & ma	rbalance, other)	<u> </u>			
lid		e control (elec., mech., n.a.)				
	Material & ma	155	Steel, 10,1 Kg			
Hatch-	Type (counte	rbalance, other)	Gas spring			
back lid	internal releas	e control (elec., mech., n.a.)	Mech.			
	Material & ma	ass	<b>-</b>			
Tailgate Type (drop, le						
Tailgate						
	Internal releas	e control (elec., mech., n a.)				
Vent window co	Internal releas		-			
Vent window co friction, pivot, p	Internal releas ontrol (crank, ower)	e control (elec., mech., n a.) Front	- - -			
Vent window co friction, pivot, p Window regulal	Internal releas ontrol (crank, ower) for type	e control (elec., mech., n a.) Front Rear	- - - Cable			
Vent window co friction, pivot, p Window regulal (cable, tape, fle	Internal releas ontrol (crank, lower) for type a drive, etc.)	e control (elec., mesh., n a.)  Front  Rear  Front	Cable Bucket, Foam			
Vent window co friction, pivot, p Window regulal (cable, tape, fle Seat cushion ty (e.g., 60,40 bud	Internal releas polirol (crank, ower) for type ix drivo, etc.)	e control (elec., mech., n a.)  Front  Rear  Front  Rear  Front  Rear	- - - Cable			
Vent window co friction, pivot, p Window regulal (cable, tape, fle Seat cushion ty (e.g., 60/40 bud	Internal releas polirol (crank, ower) for type ix drivo, etc.)	e control (elec., mech., n a.)  Front  Rear  Front  Rear  Front  Rear  Front  Gar  Front  Rear  Front  Rear	Cable  Bucket, Foam Bench, Foam			
Vent window co friction, pivot, p Window regulal (cable, tape, fle Seat cushion ty (e.g., 60-40 buc wire, foam, etc.	Internal releas ontrol (crank, ower) for type ix drive, etc.)	e control (elec., mech., n a.)  Front  Rear  Front  Rear  Front  Rear  Front  Acar  Front  Rear  Front  Rear	Cable  Bucket, Foam Bench, Foam  Bucket, Spring			
Vent window co friction, pivot, p Window regulal (cable, tape, fle Seat cushion ty (e.g., 60,40 bud wire, foam, etc. Seat back type (e.g., 60,40, bud	Internal releas control (crank, cower) for type (ix drive, etc.)  pe (ket, bench, coket, coket, bench, coket, coket, bench, coket, coket, bench, coket, coke	e control (elec., mech., n a.)  Front  Rear  Front  Rear  Front  Rear  Front  Rear  Front  Rear  3rd seal  Front  Rear	Cable  Bucket, Foam Bench, Foam			
(e.g., 60.40 bud wire, foam, etc. Seat back type (e.g., 60.40, bu wire, foam, etc.	Internal releas control (crank, cower) for type (ix drive, etc.)  pe (ket, bench, coket, coket, bench, coket, coket, bench, coket, coket, bench, coket, coke	e control (elec., mech., n a.)  Front  Rear  Front  Rear  Front  Rear  Front  Acar  Front  Rear  Front  Rear	Cable  Bucket, Foam Bench, Foam  Bucket, Spring			
Vent window co friction, pivot, p Window regulal (cable, tape, fle Seat cushion ty (e.g., 60,40 buc wire, foam, etc. Seat back type (e.g., 60,40, bu	Internal releas control (crank, cower) for type (x drivo, etc.)  pe (ket, bench, )	e control (elec., mech., n a.)  Front  Rear  Front  Rear  Front  Rear  Jrd seal  Front  Rear  3rd seat	Cable  Bucket, Foam Bench, Foam  Bucket, Spring			

Vehicle Line Mitsubishi Eclipse

Model Year 1992 Issued 1991-10 Revised (\*)

<b>METRIC</b>	U.S.	Custor	narvi
INI PITTICE	V.V.	<b>VUSIUI</b>	Hai vi

Madal	Code/Des	
M COCK	COUSIDES	enpuon

D21A, D22A

Seating Position		Left	Center	Right				
Type & description			First seat	<b>-</b>		-		
Active	lap belt, etc.)	(lap & shoulder belt, lap belt, etc.)		3 point seat belt with ELR	-	3 point seat belt with ELR		
	Standard / optiona	,	Third seat	_	-	-		
Type & description		:	First seat	Motorized 2 point belt with ELR, manual lap belt with ELR and Knee bolster.	_	Motorized 2 point belt with ELR, manual lap belt with ALR/ELR and Knee bolster.		
Passive	(air bag, motorized -		Second seat	-	-	-		
			Third seat	-	_	· <u>-</u>		
Glass		SAE Ref. No.			<u> </u>			
Windshield glass exposed S1 surface area cm²(in.²)			10291 (1595)					
Side glass exp area cm²(in.²)	osed surface - total 2-sides	S2	,		9393 (1456)			
Backlight glas surface area c	s exposed m²(in.²)	S3			8839 (1370)			
Total glass exp area cm²(in.²)	posed surface	S4	28523 (4421)					
Windshield glass (type)			Curved-laminated plate					
Side glass (typ	iide glass (type)			Curved-Tempered plate				
Backlight glass (type)				Curv	ved-tempered plate			
Headlamp	s							
Description (se	ealed beam,			Replac	eable bulb, Halog	en		

Description (sealed beam, halogen, replaceable buib, etc.)	Replaceable bulb, Halogen			
Shape	Aerodynamic			
Lo-beam type (2A1, 2B1, 2C1, etc.	HB4-bu1b			
Quantity	2			
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB4-bulb + HB3-bulb			
Ouantity	2 + 2			

MVMA	Specification	Vehicle LineMitsubishi Eclipse Model Year1992				
METRIC	(U.S. Customary)					
Engine Code	• Description	D21A D22A				
Climate C	Control System					
Air conditionir	ng (std., opt., man., auto.)	Opt. (Man)				
	Туре	Serpentine tube type				
Condenser	Eff. face area (sq. mm.)	196000				
Concenser	Fins per inch	12				
	Туре	Serpentine tube type				
Evaporator Eff. face area (sq. mm.)		54000				
Fins per inch	Fins per inch	12				
	Material	Tube : Brass, Fin : Copper				
Heater core	Eff. face area (sq. mm.)	31900				
	Fins per inch	28				
	Туре	Swash platé type				
Compressor	Displacement (cc.)	177,7				
OCp. CSSC.	Manufacturer	US. DENSO Co., Ltd.				
	A'C pulley ratio	1,06				
	Туре	-				
Accumulator	Height (mm.)	•				
	Diameter (mm.)	-				
	Туре	Integral type				
Receiver	Height (mm.)	187				
	Diameter (mm.)	60				
Refrigerant co	ontrol (CCOT, TVS, etc.)	External pressure regulated automatic thermo controlled expansion valve				
	valve (yes / no)	No				
Refrigerant (F	R - 12, R - 134a, etc.)	R-12				
Charge level	(lbs oz.)	32				

External pressure regulated automatic thermo controlled expansion valve

No

Yes

MVMA-92

Cold engine lockout switch (yes / no)
Wide open throttle cutout switch ( yes / no)

METRIC (U.S. Customary)

Vehicle Line _	Mitsubishi			
Model Year	1992 Issu	ed <u>1991-10</u>	Revised (•)	

Model Code	Model Code/Description		D2	1A		D22A			
		MNJEL.	MRJEL	MNHEL,	MRHEL	MNHML,	MRHML	MNPFL.	MRPFL
Convenie	ence Equipment (standard, optio	nal, n.a.)		<u></u>					
Clock (digital		1			Std. (D	icital	·	<del></del>	
Compass / th	ermometer				N.	<u>19ιιαι</u> Δ			
Console (floo	or, overhead)	1				console			
Defroster, ele	c. backlight				St		·		
	Diagnostic monitor (integrated, individual)					rated			
	Instrument cluster (list instruments)	Std.(Spec	edometer, Coolan	t Ind., 0	ter Tric	motor	Fuel Ind. Battery	Ind. Br	ake Ind.
	Keyless entry	<del> </del>	·······		N.	Δ	·	J 2005t	Meter
Electronic			<del>-</del> ·	· <u>-</u>	N.			<del>-</del>	
	Tripminder (avg. spd., fuel)				N.	A.			
•	Voice alert (list items)		N.A.						
	Other				•	-	<del></del> -		
							-		
Fuel door loc	Fuel door lock (remote, key, electric)		Remote						
	Auto head on / off delay, dimming				Ν.				
	Cornering	N.A.							
	Courtesy (map, reading)	Room, Map, Foot							
	Door lock, ignition	Ignition							
• .	Engine compartment	N,A,							
Lamps	Fog				N.				
	Glove compartment				St	d.			
	Trunk				St	d.			
	Illuminated entry system (list lamps, activation)	N.A.							
	Other	_							
	Day / night (auto. man.)	Std. (Man)							
Mirrors	L.H. (remote, power, heated)	Std. (Direc	ct remote)		-	Std.	(Man)		
	R.H. (convex, remote, power, heated)	Std. (Convex Direct remote) Std. (Convex						er)	
	Visor vanity (RH / LH, illuminated)				RH/	/LH		•	
Navigation sy	stem (describe)	N.A.							
Parking brake	-auto release (warning light)				N.	Α.			
								·	

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

 	<b>,</b>	 ,

Model	Code/Description	

Vehicle Line	<u>    Mitsubishi</u>	Eclipse	<u> </u>
Model Year	1992   Issue	ed 1991-10	Revised (*)

D21A				D22A			
MNJEL,	MRJEL	MNHEL,	MRHEL	MNHML,	MRHML	MNPFL,	MRPFL

One-continued Sections of Intended Antiquet	1		
Convenience Equipment (standard, optional,	n.a.)		

	Deck lid (	release, pull down)	N.A. Single Action Key Less Lock				
		s (manual, automatic,					
	describe system)		-	Opt. (Center Door Lock)			
		2 - 4 - 6 way, etc.		N.A.			
		Reclining (R.H., L.H.)		N.A.			
	1	Memory (R.H., L.H., preset recline)		N.A			
	Seats	Support (lumbar, hip, thigh, etc.)		N.A			
Power squipment		Heated (R.H., L.H., other)		N.A.			
	Side wind	ows	N.A.	Opt. (Power Window)			
	Vent windows		<u> </u>	N.A.			
	Rear windows			N.A.			
	Antenna (	location, whip, w / shield, power)	Rear Quarte	r. Whip. Rear Quarter. Power (Opt., and Rear gate of			
	Standard	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM MPX ETR	AM/FM MPX ETR and Cassete Stereo			
			AM/FM MPX ETR and Cassette Stered	<u>-</u>			
	Optional			m (AM/FM MPX ETR and Cassette Stereo c equalizer)			
				em (AM/FM ETR MPX with Cassette Stere			
	Speaker	(number, location)	Std. (	I/pan2, Rear Seat Side2) Std. (Front Door2)			
Root: open a	Roof: open air or fixed (flip-up, sliding, "T")			Opt. (flip-up)			
Speed control device Speed warning device (light, buzzer, etc.) Tachometer (rpm) Telephone system (describe) Theft deterrent system				Opt. Std.			
				N. A.			
				Std.			
			N.A.				
				N.A.			

### **Trailer Towing**

Towing capable	Yes / No	No
Engine / transmission / axle	Std / Opt	-
Tow class (I, II, III)*	Std / Opt	
Max. gross trailer wgt. (lbs.)	Std / Opt	
Max. trailer tongue load (ibs.)	Std / Opt	•
Towing package available	Yes / No	No

<sup>\*</sup> Class I - 2,000 lbs.

Mitsubishi Eclipse 1992 Issued 1991-10 Vehicle Line . Model Year . Revised (\*)

METRIC (U.S. Customary)
Vehicle Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each vehicle line. SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Model Code/Description	SAE Ref.	D21A, D22A
Width	No.	
Tread (front)	W101	1465
Tread (rear)	W102	1450
Vehicle width	W103	1695
Body width at Sg RP (front)	W117	1690
Vehicle width (front doors open)	W120	1690
Vehicle width (rear doors open)	W121	_
Tumble-home (degrees)	W122	30°
Outside mirror width	W410	1861
Length		·
Wheelbase	L101	2470
Vehicle length	L103	4390
Overhang (front)	L104	975
Overhang (rear)	L105	945
Upper structure length	L123	2560
Rear wheel C/L "X" coordinate	L127	2470
Height*		
Passenger distribution (front/rear)	PD1,2,3	Front: 2. Rear: 2
Trunk/cargo load		-
Vehicle height	H101	1306
Cowl point to ground	H114	920
Deck point to ground	H138	985
Rocker panel-front to ground	H112	216
Rocker panel-rear to ground	H111	218
Windshield slope angle (degrees)	H122	63°
Backlight slope angle (degrees)	H121	72°
Ground Clearance		
Front bumper to ground	H102	181
Rear bumper to ground	H104	298
Bumper to ground front at curb mass (wt.)	H103	222
Bumper to ground rear at curb mass (wt.)	H105	347
Angle of approach (degrees)	H106	16,5°
Angle of departure (degrees)	H107	19.0°
Ramp breakover angle (degrees)	H147	16°
Axle differential to ground (front/rear)	H153	Front 195
Min. running ground clearance	H156	160
Location of min. run. grd. clear.		Flexible Pipe
	<u>·</u>	riexible Fibe

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.

Mitsubishi Eclipse Vehicle Line \_ Issued 1991-10 Model Year \_ Revised (\*)

METRIC (U.S. Customary)
Vehicle Dimensions See Key Sheets for definitions

Model Code/Description	İ	D21A, D22A
Front Compartment	SAE Ref. No.	
SgRP front, "X" coordinate	L31	1410
Effective head room	H61	962
Max. eff. leg room (accelerator)	L34	1114
SgRP to heel point	H30	197
SgRP to heel point	L53	910
Back angle (degrees)	L40	25°
Hip angle (degrees)	L42	101°
Knee angle (degrees)	L44	141°
Foot angle (degrees)	L46	95°
Design H-point front travel	L17	260°
Normal driving & riding seat track trvl.	L23	260
Shoulder room	W3	1370
Hip room	W5	1400
Upper body opening to ground	H50	1190
Steering wheel maximum diameter*	W9	370
Steering wheel angle (degrees)	H18	19°
Accel, heel pt. to steer, whi, cntr	L11	420
Accel, heel pt. to steer, whi, cntr	H17	760
Undepressed floor covering thickness	H67	20
Rear Compartment		
SgRP point couple distance	L50	635
Effective head room	H63	867
Min. effective leg room	L51	724
SgRP (second to heel)	H31	285
Knee clearance	L48	0
Shoulder room	W4	1330
Hip roam	W6	1160
Upper body opening to ground	H51	1180
Back angle (degrees)	L41	27°
Hip angle (degrees)	L43	88°
Knee angle (degrees)	L45	72°
Foot angle (degrees)	L47	102°
Depressed floor covering thickness	H73	20
Luggage Compartment		
Usable luggage capacity £ (cu. ft.)	V1	N.A.
Littover height	H195	935
Interior Volumes (EPA Clas	sification)	
Vehicle class		Sub compact cars
	1 "	01

Trunk/cargo index (cu. ft.)

\* See page 14.
\*\* See definition page 33.
All linear dimensions are in millimeters (inches) unless otherwise noted.

Interior volume index including trunk/cargo (cu. ft.)\*

91

10,201

<b>MVMA</b> Specification	ons	Vehicle Line Mitsubishi Eclipse
METRIC (U.S. Customary		Model Year1992 Issued1991-10 Revised (•)
<b>Vehicle Dimensions</b> See	Key Sheets fo	or definitions
Model Code/Description		D21A, D22A
Station Wagon / MPV* - Third Seat	SAE Ref. No.	
Seat facing direction	SD1	-
SgRP couple distance	L85	
Shoulder room	W85	•
Hip room	W86	-
Effective leg room	L86	•
Effective head room	H86	
SgRP to heel point	H87	-
Knee clearance	L87	-
Back angle (degrees)	L88	-
Hip angle (degrees)	L89	_
Knee angle (degrees)	L90	_
Foot angle (degrees)	L91	-
Station Wagon / MPV* - Car	<del></del>	
Cargo length (open front)	L200	
Cargo length (open second)	L201	-
Cargo length (closed front)	L202	-
Cargo length (closed second)	L203	-
Cargo length at belt (front)	L204	-
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	-
Rear opening width at floor	W203	
Opening width at bett	W204	
Min. rear opening width above belt	W205	
Cargo height	H201	-
Rear opening height	H202	<u> </u>
Tailgate to ground height	H250	
Front seat back to load floor height  Cargo volume index m³(ft.³)	H197	
	V2	<u> </u>
Hidden cargo volume index m³(ft.³)	V4	<del>-</del>
Cargo volume index-rear of 2-seat	V10	_
Cargo volume index*	V6	-
Cargo width at floor*	W500	-
Maximum cargo height*	H505	-
Hatchback - Cargo Space		
Cargo length at front seatback height	L208	840
Cargo length at floor (front)	L209	1405
Cargo length at second seatback height	1210	424
Cargo length at floor (second)	L211	755

All linear dimensions are in millimeters (inches) unless otherwise noted. . .

H197

H198

**V3** 

V4

V11

Cargo volume index m3(ft.3)

Front seatback to load floor height

Second seatback to load floor height

Hidden cargo volume index m3(ft,3)

Cargo volume index-rear of 2-seat

488

368

0.288 (10.2)

<sup>\*</sup>MPV - Multipurpose Vehicle

MVMA Specifications	
METRIC (U.S. Customary)	

Vehicle Line _	Mitsubi	ishi Eclipse	•
Model Year	1992 Is	Issued 1991-10 Revised (*)	

Model C Descript		D21A, D22A
Vehicle	ے e Fiduc	ial Marks
Fiducial N Number*		Define Coordinate Location
Front(1) Front(2) Rear(1)		Datum plane definition - Vertical longitudinal plane through the
Rear(2)		longitudinal center of the car.
	Į	Vertical transverse plane through the front
		wheel center.
Note: Pro 3 of 4 Fiducial M Locations	<b>dark</b>	Horizontal plane through the lower surface of the front floor panel.
	W21**	480
	L54**	<b>–405</b>
ront	H81**	195
	H161** H163**	410
	HIGS	
	W22**	480
	L55**	2975
Rear	H82**	196
	H162**	414

<sup>\*</sup> Reference — SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks.
\*\* Reference — SAE Recommended Practice J1100 - Motor Vehicle Dimensions.
All linear dimensions are in millimeters (inches) unless otherwise noted.

# **MVMA Specifications** METRIC (U.S. Customary)

Vehicle Line	<u>Mitsubishi</u>	<u>Eclipse</u>		
Model Year	1992 Issue	ed <u>1991-10</u>	Revised (•)	<u> </u>

		Vehicle Mass (weight)				% PAS	% PASS MASS DISTRIBUTION			
		CURB MASS, kg. (ib.)*		SHIPPING		Pass	Pass in Front		n Rear	
Code Model	Front	Rear	Total	MASS kg(lb)***	ETWC**	Front	Rear	Front	Rear	
D21AMNJEL 4M. 9M	705	448	1153	1153	P	43	57	17	83	
<b></b>	(1554)	(988)	(2542)	(2542)						
D21AMRJEL 4M, 9M	730	448	1178	1178	0	43	57	1-17	83	
	(1609)	(988)	(2597)	(2597)						
D21AMNHEL 4M, 9M	720	455	1175	1175	Q	43	57	17	83	
	(1587)	(1003)	(2590)	(2590)	<u> </u>	1-45	3,	<del>  '</del> '-	63	
D21AMRHEL 4M, 9M	745	AFF	1200	1200		42				
DETAILUTE THE SH	745 (1642)	455 (1003)	1200 (2645)	(2645)	Q	43	57	17	83	
D22AMNUMI AM OM										
D22AMNHML 4M, 9M	757 (1669)	463 (1021)	1220 (2690)	1220 (2690)	R	43	57	17	83	
	(,,,,,	LIUZI	(2030)	(2030)			<del></del>	<del></del>	-	
D22AMRHML 4M, 9M	782	463	1245	1245	R	43	57	17	83	
	(1724)	(1021)	(2745)	(2745)		<del>                                     </del>		<b></b>	ļ	
D22AMNPFL 4M, 9M	785	475	1260	1260	R	43	57	17	83	
	(1730)	(1047)	(2778)	(2778)						
D22AMRPFL 4M, 9M	820	475	1295	1295	S	43	57	17	83	
	(1808)	(1047)	(2855)	(2855)		45			03	
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<sup>\*</sup> Reference — SAE J1100 Motor vehicle dimensions, curb weight definition.

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

			ETWO	: LEGE!	VD.		
A	= 1000	1	- 2000	Q	= 3000	Y	= 4000
8	= 1125	J	= 2125	Ã	= 3125	Ż	= 4250
С	= 1250	K	<b>= 2250</b>	S	= 3250	ÃA	= 4500
D	= 1375	L	= 2375	Ť	= 3375	BB	= 4750
E	= 1500	М	= 2500	U	= 3500	CC	<b>= 5000</b>
F	= 1625	N	<b>- 2625</b>	V	= 3625	DD	= 5250
G	<b>=</b> 1750	0	= 2750	W	= 3750	EE	= 5500
Н	<del>-</del> 1875	₽	<b>-</b> 2875	X	= 3875	FF	= 5750

***Shipping Mass (weigh 0 (0)	t) = Curb Weight Less:	

# MVMA Specifications METRIC (U.S. Customary)

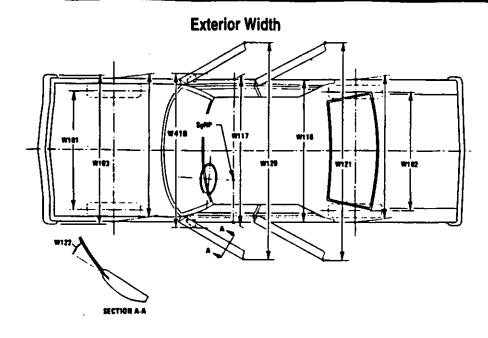
Vehicle Line	Mitsubishi	i Eclipse	·
Model Year _	1992 is	sued <u>1991-10</u>	Revised (•)

	Optional Equipment Differential Mass (weight)*			
		MASS, kg.		Remarks Restrictions, Requirements
Code Equipment Air-Conditioner	Front	Rear	Total	Restrictions, Requirements
Air-Conditioner	(49.4)	(0)	22.4 (49.4)	,
D 01 76				
Rear Shelf	(0)	2.6 (5.7)	2.6 (5.7)	
Power Steering	6.7 (14.8)	0	6.7	
	(14.8)	(0)	(14,8)	
Rear Window Wiper	. 0	3.7	3.7	
	(0)	(8,2)	(8.2)	
Power Window	1.4	1.5	2.9	
	(3,1)	(3.3)	(6.4)	
Auto Speed Control	3.8	0	3.8	
	(8.4)	(0)	(8,4)	
Anta Chad Dunta	15.0		16.0	
Anti Skid Brake	15.0 (33.0)	(0)	15.0	
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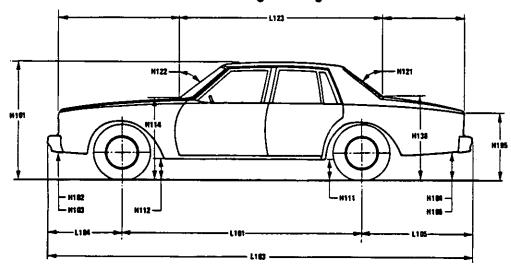
<sup>\*</sup> Also see Engine - General Section for dressed engine mass (weight).

METRIC (U.S. Customary)

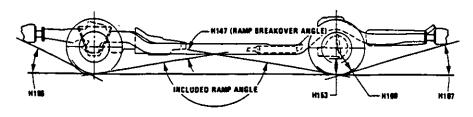
## Exterior Vehicle And Body Dimensions - Key Sheet



## **Exterior Length & Height**



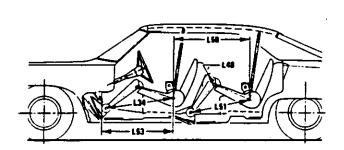
## **Exterior Ground Clearance**

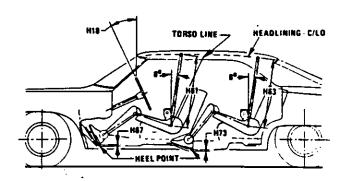


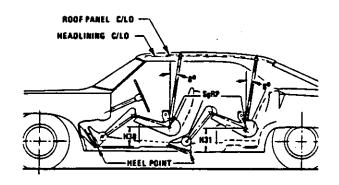
# **MVMA Specifications Form**

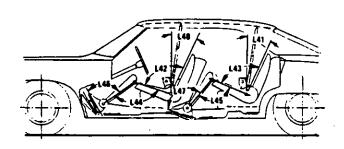
**METRIC (U.S. Customary)** 

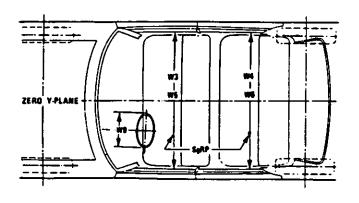
## Interior Vehicle And Body Dimensions - Key Sheet

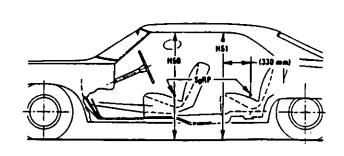






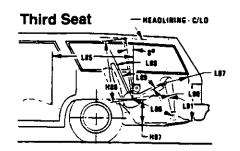


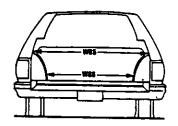




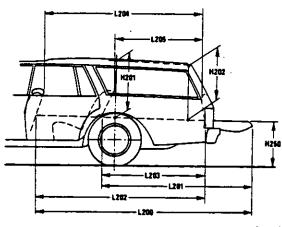
**METRIC (U.S. Customary)** 

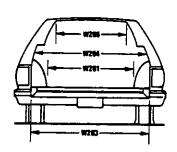
## Interior Vehicle And Body Dimensions - Key Sheet



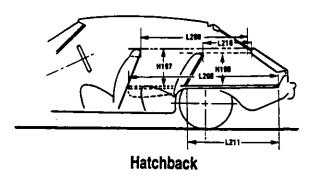


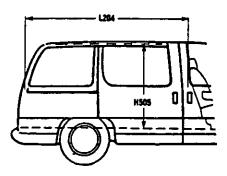
**Cargo Space** 





**Station Wagon** 







 $\varnothing$  Multipurpose Vehicle

**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 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

(c) Simulates the position of the processing torse 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

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

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

VEHICLE WIDTH. The maximum dimension measured W103 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.

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

VEHICLE WIDTH -- FRONT DOORS OPEN. The dimension 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 W410 widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

#### Length Dimensions

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.

VEH!CLE LENGTH. The maximum dimension measured L103 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.

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

hooks and/or rub strips, if standard equipment.

OVERHANG – REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case L105 of dual rear exles, 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.

UPPER STRUCTURE LENGTH. The dimension measured L123

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

#### **Height Dimensions**

H101 VEHICLE HEIGHT. The dimension measured vertically from

the highest point on the vehicle body to ground.

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 H112 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.

BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle H114 H121

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.

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**

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.

FRONT BUMPER TO GROUND-CURB MASS (WT.). H103 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 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

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.

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

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

ground. Specify location.

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

# Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

Glass	Areas	W5	HIP ROOM - FRONT. The minimum dimension measured
S1	Windshield area.	***	laterally between the trimmed surfaces on the "X" plane
\$2	Side windows area. Includes the front door, rear door, vents.		through the SgRP - front within 25 mm (1.0 in.) below and
	and rear quarter windows on both sides of the vehicle.		76 mm (3.0 in.) above the SoRP – front and 76 mm (3.0 in.)
S3	Backlight areas.	14/0	fore and aft of the SgRP - front.
S4	Total area. Total of all areas (S1 + S2 + S3).	W9	STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
Fiduc	ial Mark Dimensions	H7	ACCELERATOR HEEL POINT TO THE STEERING WHEEL
	Fiducial Mark - Number 1		CENTER. The dimension measured vertically from the
L54	"X" coordinate.		AHP-front to the intersection of the steering column
W21	"Y" coordinate.		centerline to a plane tangent to the upper surface of the
H81	"Z" coordinate.	H18	steering wheel rim. STEERING WHEEL ANGLE. The angle measured from a
H161 H163	Height "Z" coordinate to ground at curb weight.  Height "Z" coordinate to ground.		vertical to the surface plane of the steering wheel.
	Fiducial Mark - Number 2	H30	SgRP-FRONT TO HEEL. The dimension measured
L55	"X" coordinate.		vertically from the SgRP - front to the accelerator heel point.
W22	"Y" coordinate.	H50	UPPER BODY OPENING TO GROUND - FRONT. The
W82	"Z" coordinate.		dimension measured vertically from the trimmed body opening to the ground on the SgRP – front "X" plane.
H162 H164	Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground.	H61	EFFECTIVEHEAD ROOM - FRONT. The dimension meas-
	<u>.</u>		ured along a line 8 deg. rear of vertical from the SqRP - front
Front	Compartment Dimensions		to the headlining plus 102 mm (4.0in.).
Ŀ11	ACCELERATOR HEEL POINT TO STEERING WHEEL	H67	FLOOR COVERING THICKNESS - UNDEPRESSED -
•	CENTER. The dimension measured horizontally from the		FRONT. The dimension measured vertically from the
	AHP to the intersection of the steering column centerline		surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.
	and a plane tangent to the upper surface of the steering wheel rim.	_	- Short mean at the accelerator fleer point.
L17	DESIGN H-POINT - FRONT TRAVEL. The dimension meas-	Rear (	Compartment Dimensions
	ured horizontally between the design H-point - front in the	L-41	BACK ANGLE-SECOND. The angle measured between
	foremost and rearmost seat track positions. (See SAE		a vertical line through the SgRP – second and the torso line.
	J1100)	L43	HIP ANGLE-SECOND. The angle measured between
L23	NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL.	L45	torso line and thigh centerline.  KNEE ANGLE - SECOND. The angle measured between
	The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced		thigh centerline and lower leg centerline.
	point on the design H-point travel line with the seat moved	L47	FOOT ANGLE - SECOND. The angle measured between
	to the foremost seat position, but not to include seat track		the lower leg centerline and a line tangent to the ball and
	travel used for purposes other than normal driving and riding		heel of the three-dimensional devices bare foot flesh line
101	positions. (See SAE J1100).	L48	(Reference J826).  KNEE CLEARANCE – SECOND. The minimum dimension
L31 L34	SgRP - FRONT. "X" COORDINATED.	C0	measured from the knee pivot center to the back of the front
	MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR.  The dimension measured along a line from the ankle pivot		seatback minus 51 mm (2.0 in.).
	center to the SgRP - front plus 254 mm (10.0 in.) measured	L50	SgRP COUPLE DISTANCE - SECOND. The dimension
	with right foot on the undepressed accelerator pedal. For		measured horizontally from the driver SgRP-front to the
	vehicles with SgRP to heel (H30) greater than 18 in., the	L51	SgRP - second.  MINIMUM EFFECTIVE LEG ROOM - SECOND. The di-
	accelerator pedal may be depressed as specified by the	ω,	mension measured along a line from the ankle pivot center
	manufacturer. If the accelerator is depressed, the manufac- turer shall place foot flat on pedal and note the depression		to the SgRP - second plus 254 mm (10.0 in.).
	of the pedal.	W4	SHOULDER ROOM - SECOND. The minimum dimension
L-40	BACK ANGLE - FRONT. The angle measured between a		measured laterally between door or quarter trimmed
	vertical line through the SgRP-front and the torso line. If		surfaces on the "X" plane through the SgRP-second at
	the seatback is adjustable, use the normal driving and riding		height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and
L-42	position specified by the manufacturer. HIP ANGLE - FRONT. The angle measured between torso		attaching parts.
	line and thigh centerline.	W6	HIP ROOM - SECOND. Measured in the same manner as
L44	KNEE ANGLE - FRONT. The angle measured between		W5.
	thigh centerline and lower leg centerline measured on the	H31	SgRP-SECOND TO HEEL. The dimension measured
1.46	right leg.		vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
L46	FOOT ANGLE - FRONT. The angle measured between the	H51	UPPER BODY OPENING TO GROUND - SECOND. 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		dimension measured vertically from the trimmed body
	SAE J826.		opening to the ground on the "X" plane 330 mm (13.0 in.)
L53	SgRP-FRONT TO HEEL The dimension measured	1 100	forward of the SgRP - second.
	nonzontally from the SgRP-front to the accelerator heel	H63	EFFECTIVE HEAD ROOM-SECOND. The dimension
W3	point.		measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
**3	SHOULDER ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the	H73	FLOOR COVERING - DEPRESSED - SECOND. The di-
	"X" plane through the SgRP—front at height between the	···-	mension measured vertically from the heel point to the
	Delt line and 254 mm (10.0 in.) above the ScRPfront.		underbody sheet metal.
	excluding the door assist strap and attaching parts.		
	•		

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

# Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

#### **Luggage Compartment Dimensions**

V1 USABLE LUGGAGE CAPACITY - Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.

#### Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The Interior Volume Index estimates the space in a car. It is based on four measurements — head room, shoulder room, hip room, and leg room — for the front and rear seats, plus trunk capacity.

The 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 / MPV - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE THIRD. The dimension measured horizontally from the SgRP second to the SgRP third.
- L86 EFFECTIVE LEG ROOM—THIRD. The dimension measured along a line from the ankle pivot center to the SgRP—third plus 254 mm (10.0 in.).
- L87 KNEECLEARANCE THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE THIRD. Measured in the same manner as L41.
- L89 HIP ANGLE THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE THIRD. Measured in the same manner as L45
- L91 FOOT ANGLE THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM THIRD. Measured in the same manner as W4.
- W86 HIP ROOM THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM THIRD. The dimension, measured along a line 8 deg. from the SgRP third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 SgRP THIRD TO HEEL POINT.
- SD1 SEAT FACING DIRECTION—THIRD.

#### Station Wagon / MPV - 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 CARGOLENGTH CLOSED FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH -- CLOSED -- SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGOWIDTH 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 how
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- W500 CARGO WIDTH AT FLOOR. The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pitlars, but will exclude wheelhouses.
  - 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.
- MAXIMUM CARGO HEIGHT. The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.

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

# Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

V2 STATION WAGON

Measured in inches:

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY - REAR OF FRONT SEAT.

The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V5 TRUCKS AND MPV'S WITH OPEN AREA.

Measured in inches:

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:

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

V8 HIDDENLUGGAGE 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:

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 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. 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. The

L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT. 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 SEATBACK. The

L211 CARGO LENGTH AT FLOOR – SECOND SEATBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seatback to the undepressed floor covering.

V3 HATCHBACK. Measured in inches:

Measured in mm:

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

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

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

Measured in mm:

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

# METRIC (U.S. Customary)

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