MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1990

Manufacturer	Vehicle Line		
Mitsubishi Motors Corporation	Mitsubishi Eclipse Fwi		
Mailing Address			
33-8, Shiba 5-chome, Minato-ku,			
Tokyo, 108, Japan	Issued 19888	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.

Blank Forms Provided by Technical Affairs Division

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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).
- 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.

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Ø	Vehicle	Origin
_		VIIIII

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

\varnothing Vehicle Models

ehicle Models				
Model Description & Drive (FWD/RWD/AWD/4WD)*	Introduction Oute	Meks, Vehicle Models, Series, Sody Type (Migr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Klograms (Pounds)
2 DOOR		D21AMNJEL 4M/9M	4 (2/2)	28 Kg
Coupe		D21AMRJEL 4M/9M	4	(62 lbs)
(FWD)		D21AMNHEL 4M/9M		(35 155)
		D21AMRHEL 4M/9M		
		D22AMNHML 4M/9M		
		D22AMRHML 4M/9M		
		D22AMNHFL 4M/9M		
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Ø * FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive

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Power Teams (Indicate whether standard or optional)
SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg/100 kPa atmospheric pressure.

			ENGI	NE			E		
SERIES AVAILABILITY		Displ.	Induction		SAE Net	at RPM	h	TRANSMISSION/ TRANSAXLE	AXLE RATIO
AVAICACIO	Code	Dispi. Liters (in ³)	(FI, CARB/ BBL, etc.)	Compr. Ratio	Power . kW (bhp)	Torque N·m (lb. ft.)	s/D*		(std. first)
D21A Series	4G37	1.755	F.I.	9.0	69 (92)	142 (105)	D	Manual 5-speed	4.322
(SOHC, MPI)		(107)			at 5000	at. 3500		Automatic 4-Speed	4.007
D22A Series	4G63	1.997	F.I.	9.0	101 (135)	169 (125)	D	Manual 5—Speed	4.322
(DOHC, NA)		(122)			at 6000	5000		Automatic 4—Speed	4.007
D22A Sertes (DOHC, T/C)	4G63	1.997 (122)	F.I.	7.8	142 (190)- at 6000	275 (203) at 3000	S.	Manual 5-Speed	4.153
						:			
		·							

^{*} Single / Dual

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Engine Description/Cart. Engine Code		4G37 (1.755 Liters)	4963 (1.997 Liters) 4963 with 1			
-		MT AT	MT AT	(1.997 Liters)		
ENGINE -	GENERAL			· · · · · · · · · · · · · · · · · · ·		
Type & descrip	otion (Inline, V, angle,		In 1	400		
flet, location, tr	ont, mid, reer,	In line, Front,				
transverse, longitudinal, soho, doho, ohv, hami, wedge, pre-camber, etc.)		Transverse, SOHC	Fro	<u>-</u>		
			Iransver	se. DOHC		
Manufacturer		Mi	tsubishi Motors Corp	o		
No. of cylinders	<u> </u>	00.6	4			
Stroke		80,6	85			
	20 500	86.0	88	.0		
Bore specing (C		87.5				
	material & mass kg (lbs.) (machined)	Cast Iron, 34.2 (75.4)	. Cast iron.	37.5 (82.7)		
Cylinder block o		230.2	22	29		
Cylinder block i		385.5	43	39		
(above or below	v block)	Above 0.5 mm	0.0	mm		
Cylinder head r	naterial & mass kg (lbs.)	Aluminum alloy, 6.2 (13.6)	Aluminum alloy	(a 12.6 (27.8)		
Cylinder head v		57.9	45			
Cylinder liner meterial		N,A,				
Heed gasket thickness (compressed)		1.35	1.25			
Minimum combustion chember total volume (cm²)		54.1	61.7	72.7		
Cyl. no. system	L. Benk		N.A.			
(front to rear)*	R. Benk	N.A.				
Firing order		1-3-4-2				
	material & mass (kg (lbs.))**	Aluminum alloy, 5.3 (11.7)	Aluminum allo	v. 5 5 (12 1)		
Exhaust manifol	id material & mass (kg (lbs.))**	Cast 1ron. 5.7 (12.6)	Cast Iron, 7.37 (16.25)	Cast Iron, 5.0 (11)		
Fuel required ur	riesded, diesel, etc.	Unleaded San Trong San (11)				
Fuel antiknock i	ndex (R + M) + 2	No Tass	than 91	No less then 95 or 91 wi		
	Number	1833	4	knock contro		
Engine mounts	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.	R	ubber (Elastomeric)			
	Added isolation (sub-frame, crossmember, etc.)	Crossmember and Centermember				
Total dressed er	ngine mass (wt) dry***	122.7 114.7	151.3 144.3	158.7		
Engine – Pl	stons					
Material & mass, g (weight, oz.) - piston only		Aluminum alloy, 322 (11.4)	Aluminum alloy. 343 (12.1)	Aluminum alloy, 362 (12.8)		
Engine – C	emshaft		()	1 000 (1210)		
ocation		Center of IN. and EX. valve on cylinder-head	Above each IN. and EX.	value on ovitaden hand		
Material & mass kg (weight, the.)		Cast iron,	Cast iron, IN:1.9 (
Orive type	Chain / belt		Belt			

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

Finished state.

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

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Engine Description/Carb. Engine Code		ark.	4G37 (1.755 Liters) 46	63 (1.997 Liters)	4G63 with Turbo (1.997 Liters)			
Engine -	Valve S	ystem						
Hydraulic lift	ers (std., opt	., NA)		Std.				
	Number is	ntake / exhaust	4/4	8/8	8			
Valves .	Head O.D), intake / exhaust	42/34	34/30	0.5			
Engine -	Connec	ting Rods						
Material & mass (kg., (weight, lbs.))*		ight, lbs.)]*	Forged 1ron, 0.612(1.35)	Forged 1ron,	0.69 (1.52)			
Length (axed	e⊈ lo€) mm		153.7	150.	0			
Engine -	Cranksh	aft	•					
Material & m	ess (kg., (we	ight, Ba.)]*	Forged fron, 12.4(27.3)	Forged iron.	16.3 (35.9)			
End thrust to	ken by beari	ng (na.)		3.				
Length & nur	nber of main			23mm. 5				
Seal (materia	d, one, two	Front	Synther	<u>tic rubber. One pie</u>	CB			
piece design	, GEL)	Rear	Synthe	Synthetic rubber, One piece				
Engine –	Lubricat	tion System						
Normal oil pr	esure (ldPs	(pel) at engine rpm	280 (40.6) at 2000					
Type oil intak	e (floating, s	tationary)	Stationary					
Ož filter syste				Full flow				
Capacity of c	case, less fi	iter-refill-L (qL)	3.9	4.4				
Engine –	Diesel In	formation						
Diesel engine	menufactur	er		•				
Glow plug, ca	ment drain a	1 OF		-	•			
Injector	Туре			-				
nozzie	Opening p	ressure (kPa (pai))		-				
Pre-chamber	design							
Fuel in-	Manufactu	rer	<u> </u>					
ection pump	.,,,,,	- · · · · · · · · · · · · · · · · · · ·						
		(belt, chain, gear)						
Supplementa		ource (type)	<u> </u>					
Fuel heater () Nater sepera								
std., opt.) Turbo manufi	chirer		 					
Dil cooler-typ oil to ambient	e (all to engir	ne coolant;	<u> </u>	-				
Oil filter								
Engine –	Intake S	ystem	· · · · · · · · · · · · · · · · · · ·		+			
Turbo charge	r - manufact.	/W	N. A.		Mitsubishi Meavy Industries Li			
Turbo charger - manufacturer								
Super charge		rer	N.A.		N.A.			

^{*}Finished State

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Engine Dec Engine Co	neription/Carb. de	4G37 (1.7 MT	55 Liters)	4G63 (1.9	97 Liters)	4G63 with Turbo (1.997 Liters)		
Engine -	- Cooling System					TIADO/ LICERS/		
Coolent reco	wery system (std., opt., n.e.)			With conde	ncar tank			
Coolent fill to	ocation (rad., bottle)		Thermo	stat case	condenser	tank		
Radiator cap	relief valve pressure [kPs (pei)]		111011110	88 (1	2 8)	tank		
Circulation	Type (choke, bypess)	1 -		Choke				
Permostat	Starts to open at °C (°F)							
·	Type (centifugal, other)	88 (190,4) Centrifugal						
	GPM 1000 pump rpm							
	Number of pumps	1		1				
Water	Orive (V-bell, other)			V ribbe	d belt			
pump	Searing type	Soil, interr	she/t.			oft, permanently sealed		
	Impoller material			olled carl	on steel sh	oot		
	Housing meterial			luminum di	e casting	eer		
By-pass recir	rculation (type (Inter,, ext.))			Exter	na l			
Cooling	With heater-L(qL)	5.0	(5.3)	<u> </u>	7.0 (7.45		
system capacity	With air condL(qL)	5.0	5.3)					
	Opt. equipment [specify-L(qL)]	5.0 (5.3) 7.0 (7.4)						
Water jackets	tull length of cyl. (yes, no)	Yes						
Water all arou	und cylinder (yes, no)	No						
Water jackets	open at head face (yes, no)	No						
	Std., A/C, HO	N.A.						
	Type (cross-flow, etc.)	Down-flow Down-						
Redietor	Construction (fin & tube mechanical, braze, etc.)		Tube a	<u> </u>	ed fin, Sol	der		
core	Meterial, mass (kg (wgt, lbs.))	Copper & Brass	Capper & Bress	Copper & Brass	Copper & Brass	Copper & Brass. 5.35		
	Width		3.43	5.35 668	3.7			
	Height			350				
	Thickness		16		<u></u>	32		
	Fins per inch		20			17		
Radiator end	tank material			Plast	ic			
	Std., elec., opt.			Elect	ric			
	Number of blades & type (flex, solid, meterial)			4, Polypr				
	Diameter & projected width			320)			
	Ratio (fan to crankshaft rev.)			N.A				
Fan	Fan cutout type			N.A				
	Orive type (direct, remote)	N. A.						
•	RPM at idle (elec.)	2150			2080			
	Motor rating (wattage) (elec.)	80			120			
[Motor switch (type & location) (elec.)		The	rmo Type 1	n radiator			
•	Switch point (temp., pressure) (elec.)			85°C ±	3°C			
	Fan shroud (material)		_	Plast				
-		I Jasuic						

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Engine Des Engine Cod	eription/Carb. a	4G37 (1.755 Liters)	4G63 (1.997 Liters)	4G63 with Turbo (1.997 Liters)				
Engine –	Fuel System (See supple	emental page for details of Fuel Injection.	Supercharger, Turbocharger, etc. if used)					
Induction type injection syste	e: carburetor, fuel em, etc.		Fuel Injection	•				
Manufacturer		N	ippon Injector Co., Ltd					
Carburetor no	o, of barrels		•					
idle A/F mix.			14,7	_				
	Point of injection (no.)		Inlet port (4)					
Fuel injection	Constant, pulse, flow	6.07mm ³ / 2.5 msec	6.09 mm ³ / 2.2 msec	8.07 mm ³ / 1.8 msec				
- 100-0-1	Control (electronic, mech.)		Electronic					
	System pressure (kPa (pai))	329 (47.71)	250 (36.25)				
idle spdrpm (spec.	Manual	700 rpm	750	rom				
neutral or drive and propane if used)	Automatic	700rpm(650rpm Drive)	750rpm(650rpm Drive)	•				
	id heat control (exhaust mostatic or fixed)		N. A.					
Air cleaner typ	pe	Dry non-woven cloth						
Fuel filter (typ	ne/location)	Paper, Engine room						
Fuel	* Type (elec. or mech.)	Electric						
pump	Location (eng., tank)	In tank						
_	Pressure range (kPa (pei))	177 to 588 (26 to 85)						
<u></u>	Flow rate at regulated pressure (L (gai) / hr (ft kPa (pai))	90 L/hr (23.8 gal/hr) @ 250kPa (36ps1)						
Fuel Tank	τ							
Capacity [refit	li L (gallons)]		60 (15.9)					
Location (des	Cribe)	Under rear seatpan						
Attachment		Strap						
Material & Ma	uss (lug (weight lbs))	Steel. 13.2						
Filler	Location & material	Left.		Steel				
pipe	Connection to tank		Rubber hose					
Fuel line (mate	enal)	Stee!						
Fuel hose (ma	stenai)	Rubber						
Return line (m	natenal)	Steel						
Vapor line (ma	aterial)	Steel						
	Opt., r.a.	N.A.						
Extended range	Capacity (L (gallons))		N. A.					
tank	Location & material		N.A.					
	Attachment		N. A.					
	Opt., n.a.		N.A.					
j	Capacity (L (gallons))		N.A.					
Auxiliary tank	Location & material		N. A.					
	Attachment		N.A.					
	Selector switch or valve		N.A.	1				
+	Security 41	 						

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METRIC (U.S. Customary)

Engine Description/Carb. Engine Code 4G37 4G63 with Turbo 4G63 (1.997 Liters) (1.75<u>5 Liters</u>) (1.997 Liters) **Vehicle Emission Control** Three-way catalyst with feedback control, Type (air injection, engine modifications, other) Exhaust gas recirculation Pump or pulse N.A. Driven by Air distribution injection N.A. (heed, manifold, etc.) Point of entry N.A Type (controlled flow, open orifice, other) Controlled flow (Calif. only: and electronic) Exhaust Gas Recircula Emission Control **Exhaust source** Exhaust manifold Port No.2 Exhaust Manifold Port No.4 Exhaust Manifold Port No.4 Point of exhaust injection Intake mentfold Intake mentfold (spacer, carburetor, manifold, other) Single tank Туре Three-way Number of Under floor Location(s) Calif.: 1.0 (61.02) + 0.7 (42.71)Catalytic Converter Volume [L (In²)] Fed: Substrate type Monolith Noble metal type Ø Noble metal concentration (g/cm²) Type (ventilates to atmosphere, induction system, other) Induction System Energy source (manifold vacuum, carburetor, other) Intake Manifold Vacuum Crankcase Emission Control Discharges (to intake manifold, other) To intake manifold Air inlet (breather cap, other) <u>Air cleaner</u> Vapor vented to Canister Evapora-Carburator canister, other Commi Vapor storage provision Canister <u>Yes</u> Closed loop (yes/no) Electronic SYSTEM Open loop (yes/no) Yas Engine - Exhaust System Type (single, single with cross-over, dual, other) Single with cross-over Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight fbs)] One (Reverse flow) One (Reverse flow) One (Reverse flow) Stainless steel, 6.4 (14.1) Stainless steel, 5.6 (12.3) Stainless steel, 6.3 (13.9) TWO (Straight thru), Stainless steel, 2.4 (5.3) Resonator no. & type 54 X 1.5 42.7 X 2 _O (Dual) Branch o.d., wall thickness Extraust 48.6 X 1.5, 54 X 1.5 54 X Main o.d., wall thickness pipe Material & Mass (kg (weight lbs)) Stainless steel tabe, 4.3 (9.5) Stainless steel tube, 4.4 (9.7) Stainless steel tobe, 4.2 (9.3) 48.6 X 1.5, 48.6 X 2.0 54 X 1.5, 54 X 2.0 Inter-mediate o.d. & wall thickness Statuless steel tube, 4.7 (10.4) Stainless steel tube, 5.2 (11.5) Statuless steel tube, 5.8 (12.8) Material & Mass (kg (weight lbs)) pipe 38.1 X 1.2 (Dual) 42.7 X 1.2 (Dual) o.d. & wall thickness <u>48.6 X 1.2</u> انه ۲ pipe Material & Mass [kg (weight lbs)] Stainless steel tube. 0.8 (1.8) Stainless steel tube. 1.0 (2.2) Stainless steel tube, 0.5 (1.1)

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METRI	C (U.S. Customary)					
Engine Description/Carb. Engine Code		4G37 (1.755	Liters)	4G63 (1.997 Lite	rs) 4G63 with Turbo (1.997 Liters)	
Transm	issions/Transaxie (Std., C)pt., N.A.)				
Manual 3-s	peed (manufacturer/country)			N.A.		
Manuai 4-s	peed (manufacturer/country)			N. A.	. '	
Manual 5-s	peed (manufacturer/country)		Std., M	itsubishi Motors (Corp./Japan	
Automatic	(manufacturer/country)			N. A.		
Automatic (overdrive (manufacturer/country)	Std., Mits	<u>ubishi M</u>	otors Corp./Japan	N.A.	
Manual	Transmission/Transaxie		_			
Number of	lorward speeds		·	5 ·		
	1 et		3.	363	3,083	
	2nd			947	1.833	
_ [3rd		1.	285	1,217	
Gear ratics	481		0.9	939	0,888	
L	5th		0.	756	0.741	
	Reverse	3,083			3.166	
Synchronou	us meshing (specify geers)	1, 2, 3, 4, 5				
Shift lever i	······	Floor				
Trans. case	metit. & mess kg (lbs)"	Aluminum alloy, 9.9 (21.8)		Aluminum alloy 11.5 (29		
Lubricant	Capacity [L (pL)]		1.8		2.2 (4.6)	
	Type recommended	Mult.	<u>ipurpose</u>	gear oil conform	ming to API GL-4	
Clutch (Manual Transmission)		· · · · · · · · · · · · · · · · · · ·	<u> </u>		
Clutch man	ufacturer	Atshin Setki C	o.,Ltd.	Daikin Manu	ifacturing Co.,Ltd.	
Clutch type	(dry, wet; single, multiple disc)			Dry single plat		
Linkage (hy	drautic, cable, rod, lever, other)			Hydraulic		
	effort (nom. Depressed			123 (27.7)		
spring load.	new) N (lbs) Released			83 (18.7)		
Assist (sprin	ng, power/percent, nominal)		N	0_	Spring	
Type pressi	re plate springs			Diaphragm		
Total spring	toed (nominal, new) N (lbs)	4168 (93		4511 (1014)	6178 (1389)	
	Facing migr. & material coding	<u>.</u>		<u>tachi Chemical Co.</u>		
	Facing material & construction	Woven (Asbe	istos)		(Non-Asbestos)	
	Rivets per facing			16		
	Outside x inside dia, (nominel)	200 X 1		215 X 140 (mm)) 225 X 150 (mm)	
To obselve	Total eff. area (cm²(in.²))	363 (56.	<u>5)</u>	418 (64.8)	442 (68.5)	
Clutch acing	Thickness (pressure plate side/ fly wheel side)			3.5/3.5	. (mm)	
	Rivet depth (pressure plate side/		1 6/1	6 (mm)	1.3/1.3 (mm)	

Engagement cushion method

Release bearing type & method tub.

Torsional damping method, springs, hysteresis | Damper rubbers and Friction weshers | Damper rubbers-coil springs and Friction washers

Flat-wave spring

Ball bearing, permanently lubricated

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

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	secription/Carb.	D21A				
Engine Co	ode .	VEIA		D22A		
Automa	tic Transmission/Transaxie			-		
Trade name	•	Mitsub	ishi Motors Corp. F	4A22		
Type and s	pecial features (describe)	Torque convert Planetary gear Tra	er with automatica nsmission Electron	lly operated		
0-1	Location	levo	er : Console mounte	d		
Selector	Ltr/No. designation		P.R.N.D.2.L / 6			
	1st		2.846			
Geer	2nd		1.581			
78006	3rd		1,000			
	48h		0.685	 		
	Reverse		2.176	·		
Max. upshift	t speed - drive range (lon/h (mph)) **	1-2 46/41 (30/26), 2-3 50/77 (56/46), 3-4	159/200 (99/21) 3.9 59/22 (32/2)	2-3 111/m (69/m), 3-4 187/m (117/m)		
MARKE XICKOR	mu speed - cave usude (mbu))	2-1 43/35 (27/22), 3-2 84/49 (53/43), 4-3	143/130 (60/g1) 2-1 45/35 (28/22),	3-2 100/gg (63/gg), 4-3 168/gg (105/gg		
Min. overdri	we speed (km/h (mph))	28 (18)		29 (18)		
	Number of elements		Three			
Torque	Max. ratio at stad		2.17:1			
converter	Type of cooling (air, liquid)		Liquid			
	Nominal diameter		240			
"	Capacity factor "IC"	245		224		
Lubricant	Capacity [refil L (pt.)]		6.1 (13.0)			
	Type Recommended	DEXRON I or DEXRON automatic Trans.fluid				
	d., opt., NA, internel, externel, air, liquid)	Std. External liquid				
Transmissio	n case material & mass kg (lbs)**	Aluminum alloy, 13,7 (30,2)				
Axie or I	Front Wheel Drive Unit	* Power/Economy	<u> </u>			
Type (front,	reer)	Front				
Description		Separable				
Limited stip	differential (type)					
Drive pinion	offset					
Onve pinion	(type)					
No. of differe	ential pinions	2				
Pinion/diffe	rential adjustment (shim, other)		Shim			
Pinion/differ	rential bearing adjustment (shim, other)		Shim			
	ol bearing (type)	Double row a	ingular contact bal	l bearing		
	Capacity (L (pt.))	Refer	to transmission Sp	ec.		
Lubricent	Type recommended		to transmission Sp			
		4G37 (1.755 Liters) and	4G63 (1.997 1tare)	4G63 with Turbo		
		MI	AT	(1.997 Liters)		
Axie or T	rensexie Ratio and Tooth C	ombinations (See 'Power Teams' for		(1.331 Litters)		
	r overall top gear ratio)					
No. of	Pinion	17	1(5		
teeth	Ring gear or gear	67	57	55		
Ring gear o.d	4.	179.26	175.73	187.69		
Transaxie	Transfer geer ratio	1.096	1,125	1.208		
	Final drive ratio	3.941	3.562			
			3.30/	3.437		

^{*} input speed + ~ torque

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

Vehicle Line	Mitsubisi	hi Eclipse	
Model Year_	1990	Issued 1988-8 Revised (*)	

METRIC (U.S. Customary)

Engine Description/Carls. Engine Code 4G37 (1.755 Liters) 4G63 (1.997 Liters) 4G63 with Turbo (1,997 Liters)

Axle Shafts - Front Wheel Drive

Manufacturer and number used			oyo Bearing Co., Ltd.	<u>. </u>		
Type (straight, solid ber, Left			Straight bar	<u> </u>		
ubutar. etc.)			Right		Straight bar	
Mariual trans		arie	Let	26 X 708	26 X 706	30 X 706
Outer diam. x length* x Automatic transaule			Right	23.2 X 368	24 X 366	24 X 366
	ansaxie	Left	26 X 708	26 X 706	_	
vali hickness			Right	23.2 X 368	24 X 366	_
	Optional trans	earie	Left			
			Right		-	
	Туре			-	None	
ilip oke	Number of te	eth				
	Spline o.d.				-	
Make and mig. no.		0.00	Inner	1	ovo Bearing Co. Ltd.	
Number used		-	Outer	Toyo Bearing Co. Ltd.		
			W-2	Two X Two		
	Type, size, plunge Inner Outer		inner		C.V. Joint	
			Outer	· · · · · · · · · · · · · · · · · · ·	C.V. joint	
Iniversal [Attach (u-bolt	Utach (u-bolt, clamp, etc.)			-	· · · · · · · · · · · · · · · · · · ·
ints		Type (plain, anti-friction)			<u>-</u>	
	Bearing	Lubrication (fitting, prepar	ck)		-	
rive taken thro	ough (torque t	ube,			Lower arm & Strut	
orque taken th	rough (torque	tube,		Lower arm & Strut		
il Wheel/	4 Wheel I	Drive				
escription and hile moving, m	type (part-time echanical, elec	, full-time, 2/4 s t., chain/gear, c	nia MC.)		-	
Manufacturer		<u> </u>		·		
ensier	Туре		-			
Model		-				
w-range gear	ratio		\neg		_·	
rstem disconn	ect (describe))			-	· ·
eriler :	Type (bevel, p	planetary, w or : torsen, etc.)	w/o		-	
merenda	Torque spit (% front/rear)					

^{*} Centerline to centertine of universal joints, or to centerline of attachment.

Vehicle Line Mitsubishi Eclipse
Model Year 1990 Issued 1988-8 Revised (*)

Body Type Engine Di			D21A	D22A
⊘ <u>Suspen</u>	sion	- General Including Elec	stronic Controls	
_ _	Sta	anderd/optional/not avail,	N ₋	Α.
	Me	nual/automatic control	N.	
	Tyr	pe (air/hydraulic)	N.	
Car leveling	Pri	mary/assist spring	l N.	
	Re	ar only/4 wheat leveling	N.	
	Sin	gle/dual rate spring	N.	
	Sin	gle/dual ride heights	N.	
	Pro	wision for jackling	N _a	
	Sta	ndard/option/not evail.	T	Ä.
	Ma	nual/automatic control		A.
_	Nur	mber of damping rates	N.	
Shock absorber damping	Тур	pe of actuation (manual/ ctric motor/air, etc.)		Α.
contois		Lateral acceleration	N _a	Α.
	1 5	Deceleration		Ä.
	i	Acceleration	N.	
	1:	Road surface	N.	
Shock	Тур	·	Front: Strut Type	Rear : Telescopic Type
absorber	Mal	ke	Front/Rear : Kayaba	
(front & rear)	Plat	ton diameter	Front: 32	
	Roc	diameter	Front: 22	Rear: 25 (mm) Rear: 12.5 (mm)
Suspen	sion -	- Front	110116, 22	
Type and de			Independent	Strut Type
Travel*	Full	jounce	92 (mm)	83 (mm)
I LEAGU.	Full	rebound	78 (mm)	87 (mm)
,	Тур	e (coil, leaf, other) & material	Co11 (9254 Steel.	
	Insu	ristors (type & material)		-
Spring	Size	e (coil design height & i.d., length x dia.)	327 X 146.6 ör 335 X 146.4	314 X 146.3 or 322 X 146.1
	Spri	ing rate (N/mm (lb./in.))	21.6 (123.2)	23.5 (134.4)
	Rati	e at wheel (N/mm (fb./in.))	20.3 (116.0)	22.1 (126.3)
Stabilizer	Тур	e (link, linkiess, frameless)	والمراجع	nk
	Met	orial & bar diameter	ASB 25N. \$17.3 (mm)	Spring steel. # 19 (mm)
Suspens	sion –	Rear		
Type and de	ecriptio	n	3-Link to	rsion axle
	Full	jounce	110 (num)	100 (mm)
Travel*		rebound		5 (mm)
		e (coil, leaf, other) & material	Coil (9254 Steel.	
0 -4	Size	r (length x width, coil design ht & i.d., bar length & dis.)	337 X 84.9	317 X 84.8
Spring	-	ing rate (N/mm (lb./in.))	19,6 (112,0)	22.5 (128.8)
	_	e at wheel [N/mm (lb./in.)]	19.6 (112.0)	22.5 (128.8)
ı.		rietors (type & material)		
		No. of leaves		r pad
	If leaf			
		snacke (comp. or tens.) e (link, linkless, frameless)		-
Stabilizer	—			\$39C 405 ()
Track has fa		enai & bar diameter	\$38C, \$20 (mm)	\$38C, \$25 (mm)
Track bar (ty	<u>~</u>			-

^{*} Define load condition:

 Vehicle Line
 Mitsubishi Eclipse

 Model Year
 1990
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Body Type Engine Di:	And/O	r nemt			4G37 (1.755 Liters)	(1,997	G63 Liters)	4G63 with Turbo (1.997 Liters)
Ø Brakes	- Serv	ice				((14337 Ercers)
Description			<u> </u>				_	
			Front (disc or dn	100)	Akebono Br	aka Tadu	etau Ca Li	Ad Bloo
Manufactur brake type		., n.a.)	Reer (disc or dry		Akebono Br	ake Indu	stry Co.,L	td., Disc
Velving type	(propor	tion, delay,	metering, other)	,	ARESONO DI	Proporti	on valve	cd., DISC
Power brek							d.	
			rac., hyd., etc.)		 		gral	
		ce (inline, p					ine	
Vacuum			ne in. ³) and source				-	
4 declaration			. geer driven, belt d	riven)				
Traction		ational spec			-			
control	Туре	engine inte	rventan (electronic	mech.)				
	Front	/reer (std.,	opt., n.e.)					
	Man	facturer					•	
Anti-lock	Туре	(electronic	, mech.)				-	
device	Num	ber seneors	or circuits				-	
	Num	ber anti-loci	k hydraulic circuits					
	Integ	rai or add-o	n system					
	Yew	control (yes	, no)					
	Hydra	uic power so	urce (elect., vec. mir.,	Defr. sarg.)				
Effective are	e (cm²(i	مرار ۱			F: 200	(31.0)	R: 120 (1	8.6)
Gross lining	8/96 (CT	1 ² (ln. ²)]**(F/	PR)			(31.9)		8.6)
Swept area	cm²(in.ª)]***(F/A)				(198.6)		182.5)
·	Oute	worlding dia	rneter	F/R	F: 264	13010	R: 263	
Actor	Inner	working dia	emeter	F/A	F: 170		R: 178	(mm)(mm)
	Thick	ness		F/R	F: 24		R: 10	(mm)
	Mete	rial & type (vented/solid)	F/A	F: Cast iron	vented		iron solid
_	Diam	eter & width	,	F/A ·		-	- 111 0430	
Drum	Туре	and materi	1	P/A			•	
Wheel cytino	er bore		-		F:	53.97	R: 30.16	(mm)·
Master cylin	jer	Bore/stro	ke	F/R	Bores 22.22 / StrokesPrimarys 13, Secon			toles: Primary: 13, Secondary: 15 (se)
Pedal arc re	io .					4		,,,,,
Line pressur	et 445	N(100 lb.)	oedal loed (ki ^p a (pel)	रें	12162 (12656 (1844)
Lining clears	nce			F/A	F:No major adjustment	required	R: No mation a	distrect required
		Bonded o	or riveted (rivets/seg	.)		Bon	ded	
		Rivet size					•	
		Manufact	urer		Hitac	hi Chemi	cal Co.,Lt	:d.
	Front	Lining co	de			Hitachi	MH102 EE	
	wheel	Material				MoT		
		Р	rimery or out-board		1		1 X 10.5	(mm)
•		Size S	econdary or in-boen	d			1 X 10.5	(mm)
Brake		Shoe thic	kness (no fining)			5.		(mm)
lining		Bonded o	r riveted (rivets/seg.	.}		Bone		
	1	Manufact	urer	1	Akebono	Brake In	dustry Co.	.Ltd.
	Rear	Lining co	10****			AKS 2	6 GF	
	wheel	Material				MoTo	ded	
]	oooo P	rimary or out-board			72 X 41:		(mm)
	[Size S	econdary or in-board	1		72 X 41.		(mm)
		Shoe thic	kness (no lining)			5.	0	(mm)

^{*}Excludes rivet holes, grooves, chamilers, etc. **Includes rivet holes, grooves, chamilers, 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 PV2 for each brake.)

^{****}Size for drum brakes includes length x width x thickness. *****Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

Mitsubishi Eclipse 1988-8 1990 Revised (*)

METRIC (U.S. Customary)

Body Type And/Or	
Engine Displacement	Ì

4G37 (1.755 Liters)	4G63 (1.997 Liters)	4G63 with Turbo (1,997 Liters)

Tires And Wheels (Standard)

	Size (load range), <u>pl</u> y)	P185/70R14.Std	load P205/55HR16	Std Toa	d P205/55VR16, Std
	Type (bias, radial	steel, nylon, etc.)		Radia	1	·
Tires	Inflation pree- sure (cold) for recommended	Front [kPa (pel)]		200 (2		
	mex. vehicle load	Rear (kPa (pei)]				
	Rev/mile-et 70	km/h (45 mph)	858		71	54
	Type & material			isc. Steel	<u> </u>	Disc. Aluminum
	Rim (size & flang	je type)	14 X 5 1/2JJ		16 X	(6JJ
Wheels	Wheel offset			46		
		Type (bott or stud)		Stud		
	Attachment	Circle diameter		114.		
		Number & size		5. M12 X		
Spere	Tire and wheel			T125/70015. High pressu	4T X 15	
	Storage position (describe)	& location		On cargo		
Tires År	nd Wheels (Op	tional)	· .			
	ed range, ply)		_	P205/55VR16,	td load	_
Type (biss.	radial, steel, reton, e	te l		5 10		

Tire size (load range, ply)	-	P205/55VR16, Std load	
Type (bias, radial, steel, nylon, etc.)		Radia	
Wheel (type & material)		Disc, Steel or Aluminum	-
Rim (size, flange type and offset)		16 X 6JJ	
Tire size (load range, ply)		205/55VR16. Load	
Type (bias, radial, steel, nylon, etc.)	•	Radia	range C
Wheel (type & material)	-	Disc. Steel or A	luada un
Rim (size, flange type and offset)	-	16 X 6JJ	Luma aum
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			<u> </u>
Rim (size, flange type and offset)		-	· · · · · · · · · · · · · · · · · · ·
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)	···		
Wheel (type & material)			
Alm (size, flange type and offset)			
Ø Spare tire and wheel size	· · · · · · · · · · · · · · · · · · ·		
(if configuration is different then road tire or wheel, describe optional spare tire and/or wheel location & storage position)		-	

Brakes - Parking

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

Vehicle Line Mitsubishi Eclipse

Model Year 1990 | Issued 1988-8 | Revised (*)

Body Type Engine Dis	And/Or plecement			D21A	D22A	
Steering						
Manual (std.	opt, n.e.)			Std.	N.A.	
Power (std.,	opt, n.e.)			Opt.	Std.	
Activistable		Туре				
steering who		Manufacture	Y .	Mitsubishi M		
(tilt, telescop	e, other)	(Std., opt., r	LA)	Std		
Wheel dame	COLUMN TO THE PARTY OF THE PART	Manual		372		
(W9) SAE J1		Power		-	372	
	Outside	Wall to wall	(l. & r.)	M/S:11.2(36.7) P/S:11.6(38.1)	11.6 (38.1)	
Turning	front	Curb to curt	(L & f.)	M/S: 10.4(34.1) P/S: 10.8(35.4)	10.8 (35.4)	
diametar m (fL)	Ineide	Wall to wall	(L & r.)	M/S: 6.0(19.7) P/S: 6.4(21.0)	6.4 (21.0)	
	reer	Curb to curt	(L & r.)	M/S: 6.2(20.3) P/S: 6.6(21.7)	6.6 (21.7)	
Scrub Redius	•			_10.9	-14.3	
		Туре		Rack & pinion	N.A.	
	Geer	Manufacture	•	Koyo Seiko Co.,Ltd.	N.A.	
Manual		Ratios	Geer	•	N.A.	
		7-61-2-6	Oversit	23.8	N.A.	
	No. whee	turns (stop to	stop)	4.2	N.A.	
	Туре (ссе	utial, elec., hyd	L, etc.)	Integ		
	Menufact			Koyo Setko		
_	i i	Туре		Rack & F	Pinion	
Power	Geer	Ratios	Geer	-		
			Overes	15.		
	Pump (dri	vo)		V-be		
	No. whee	turns (stop to	stop)	2.		
	Туре			Trailing, equal	ength tie rods	
Linkage	Location (of wheels	trant or reer , other)		Rea	r	
	Tie rods (one or two)		Two)	
	Inclinetion	at camber (de	lg.}	14°06'	14*20'	
Steering	_	Upper		Ball be	aring	
exie _	Searings (type)	Lower		Ball 1	oint	
	1,7	Thrust		N. A	•	
Steering spini	de & joint ty	pe		Ba1	1	
	Diameter	inner beerin	3	40.	0	(1001
Wheel pindle/hub	L-ETIONS	Outer bearing	g	40.)	(mm
	Thread (a	26)		M22_X 1.5	(Metric)	
	Bearing (t	\		Bal		

[&]quot;The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

[&]quot;See Page 22

Vehicle Line Mitsubishi Eclipse

Model Year 1990 Issued 1988-8 Revised (*)

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	D21A MNJEL, MRJEL MNHEL, MRHEL	D22A -

Wheel Alignment

Service	Caster (deg.)	2°20' ± 30'
checking	Camber (deg.)	$0^{\circ}15' \pm 30'$ $0^{\circ}05' \pm 30'$
	Toe-in (outside track-mm (in.))	$0 \pm 3 \ (0 \pm 0.118)$
ont	Caster	
heel at Service reset"	Camber	
(i)	Toe-in	•
Penodic	Caster	-
M.V. in-	Camber	•
spection	Toe-in	
Service	Camber (deg.)	-0°45' ± 30'
er checking	Toe-in (outside track-mm (in.))	$0 \pm 3 \ (0 \pm 0.118)$
eel at Service	Camber	_
L) reset*	Toe-in	•
Periodic M.V. in-	Camber	-
spection	Toe-in	

^{*} Indicates pre-set, adjustable, trend set or other.

Electrical - Instruments and Equipment

Speed-	Type (analog, digital, std., opt.)	Analog (Std.)				
ometer	Trip odometer (std., opt., n.s.)	Std.				
EGR mainten	ance indicator	N.A.				
Charge indicator	Туре	Voltage relay				
	Warning device (light, audible)	Light	_			
Temperature indicator	Туре	Cross coil				
	Warning device (light, audible)	Driving pointer				
Oil pressure	Туре	Pressure switch and Electric Thermal				
indicator	Warning device (light, audible)	Light				
Fuel	Туре	Cross coil and Thermistor				
indicator	Warning device (light, audible)	Driving pointer & Light				
	Type (standard)	Electric two speed with variable intermittent				
Wind- shield	Type (optional)	N, A,				
wiper	Blade length	500 (DR. Side, AS. Side) (m				
	Swept area (cm²(in.²))	6427 (996)	/			
Wind-	Type (standard)	Electric				
shield washer	Type (optional)	N.A.				
	Fluid level indicator (light, audible)	N.A.				
Rear window	wiper, wiper/wesher (std., opt., n.a.)	Opt.				
	Туре	80 diameter				
Horn	Number used	One Two				
Other		Brake system and parking brake warning light, Fasten belts warning light. Coolant level warning light.				

Vehicle Line Mitsubishi Eclipse

Model Year 1990 Issued 1988-8 Revised (e)

			4027 (1.7	5 5 1.44 \	4062 (1 00	• • • • • • • • • • • • • • • • • • • •	1000
Engine Description/Carb. Engine Code			4G37 (1.7	55 Liters) AT	4G63 (1,99) MT		4G63 with Turbo
	-		[171	<u> </u>	<u> </u>	AT	(1.997 Liters)
Electrica	i – Suppi	y System					
	Menufactu	rer			JOHNSON CO	NTROLS	
	Model, std	(opt.)			BCI Size G	ROUP 86	•
Battery	Voltage				12		
	Amps at 0	F cold crank			430		
	Minutes-re	serve capacity			90		
		20 hr. rate	<u></u>		60		
	Location		-	Front, rig	ht side of	engine com	partment
	Manufactu				subishi Ele	<u>ctric Corp</u>	
		e/mex. rpm)	65	75	65		75
Alternator	Ratio (alt.	de (rpm, park)	2,65	2.43		2,2	9
		ype & rating)	 		N.A.		
Regulator	Туре	, po c. e. g	+		Voltage co	ontrol	
	•				TOT CAGE C	0116701	
Electrical	l — Startir	ng System					
	Manufactu	rer	Mitsubishi Electric Corp.				
Start, motor	Current dra	in at 0°F	-				
Start, motor	Power retir	ng [kw (hp)]	0.7	0.9		1.2	
Mana	Engageme	nt type			Soleno	ofd	
Motor drive	Pinion eng	2006	•		Fron	 -	
	from (front	, rear)					
Electrical	– Ignitic	n System					
	_	(std., opt., n.s.)	<u> </u>		Std.		
Туре	Other (spe						
	Manufactu		N.	A _	Mite	uhishi Fla	etric Corp
	Model	···	N.		, , , , , ,	H4T00	ectric Corp.
Coil	Current	Engine stopped - A	l N			0	
		Engine idling - A	N.	Α.		1.4	
	Manufactu	ret*	NGK Spark	Plug Co., Ltd.	, Champton Spa	erk Plug Co.,	Ltd. or Nippon Denso
	Model		BPR6ES	<u>-11, RN9YC</u>	4 or W20EPR	<u>-\$11</u>	PROES, RNOYC or W20EPR
Spark	Thread (m	<u> </u>	14				
plug		torque (N-m (1b, ft))	20 to 30 (15 to 22)				·
	Gep			1.0 to	1.1	(mm)	0.7 to 0.8 (mm)
	Number pe	<u> </u>			<u> </u>		··· -
Distributor	Manufactu		Mitsubishi E	ectric Corp.		N.A.	
Model		T6T S	57071		N.A.	· · · · · · · · · · · · · · · · · · ·	
Electrical	- Suppr	ession					
							
			1				
Locations & ty	/D0				_		
	· · -						

MVMA Specifications Form METRIC (U.S. Customary)			Model Year 1990 Issued 1988-8 Revised (*)		
Body Type			D21A, D22A		
Body					
Structure			Monocock body		
			Impact absorbing system		
Bumper syst	tem		Fascia (Polyurethane)		
Front - rear			Energy absorber (Fluid type)		
			•		
			Reinforcement (Steel)		
			Cathodic ED Paint		
			Extended use of galvanized		
Anti-corrosion treatment			Wax injection		
			Stone chipping resistance coating		
 Body – M	Alscellaneous	Information	Stone chipping resistance coating		
	Alscellaneous				
	Alscellaneous h (lacquer, ename). Material & mass	other)	Heat setting acrylic enamel		
	h (lacquer, enamel,	other)	Heat setting acrylic enamel Steel, 17.2 kg		
Type of finish	h (lacquer, enamel, Material & mass	(other)	Heat setting acrylic enamel		
Type of finish	Material & mass Hinge location ((other)	Heat setting acrylic enamel Steel. 17.2 kg Rear		
Type of finish	Material & mass Hinge location (front, rear) Ilence, prop) (internal, external)	Heat setting acrylic enamel Steel, 17.2 kg		
Type of finish	Material & mass Hinge location (f Type (counterts Release control Material & mass Type (counterts	other) front, reer) slence, prop) (internal, external)	Heat setting acrylic enamel Steel. 17.2 kg Rear Internal		
Type of finish Hood Trunk	Material & mass Hinge location (f Type (counterba Release control Material & mass Type (counterba Internal release	other) front, rear) lience, prop) (internal, external) lience, other) control (elec., mech., n.s.)	Heat setting acrylic enamel Steel. 17.2 kg Rear Internal		
Type of finish Hood Trunk	h (lacquer, enamel, Material & mass Hinge location (f Type (counterba Release control Material & mass Type (counterba Internal release Material & mass	other) front, rear) stance, prop) (internal, external) stance, other) control (elec., mech., n.s.)	Heat setting acrylic enamel Steel. 17.2 kg Rear Internal		
Type of finish Hood Trunk 6d	h (lacquer, enamel, Material & mass Hinge location (f Type (counterba Release control Material & mass Type (counterba Internal release Material & mass Type (counterba Counterba	other) front, rear) Mance, prop) (internal, external) Mance, other) control (elec., mech., n.s.)	Heat setting acrylic enamel Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring		
Type of finish Hood Trunk 6d Hatch-	h (lacquer, enamel, Material & mass Hinge location (i Type (counterbe Release control Material & mass Type (counterbe Internal release Material & mass Type (counterbe Internal release	ifront, rear) Itence, prop) (internal, external) Itence, other) control (elec., mech., n.a.) Itence, other) control (elec., mech., n.a.)	Heat setting acrylic ename! Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech.		
Type of finish Hood Trunk Bd Hatch-back Bd	h (lacquer, enamel, Material & mass Hinge location (f Type (counterts Release control Material & mass Type (counterts Internal release Material & mass Type (counterts Internal release Material & mass Material & mass	other) Iront, rear) Ilence, prop) (Internal, external) Ilence, other) control (elec., mech., n.s.) Ilence, other) control (elec., mech., n.s.)	Heat setting acrylic ename! Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech.		
Type of finish Hood Trunk 6d Hatch-	h (lacquer, enamel, Material & mass Hinge location (f Type (counterts Release control Material & mass Type (counterts Internal release Material & mass Type (counterts Internal release Material & mass Type (counterts Internal release Material & mass Type (drop, lift, coron)	other) Iront, rear) Ilence, prop) (Internal, external) Ilence, other) control (elec., mech., n.a.) Ilence, other) control (elec., mech., n.a.)	Heat setting acrylic ename! Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech.		
Type of finish Hood Trunk fid Hatch-back lid Tailgate	h (lacquer, enamel, Material & mass Hinge location (f Type (counterba Release control Material & mass Type (counterba Internal release Material & mass Type (counterba Internal release Material & mass Type (counterba Internal release of the Material & mass Type (drop, lift, counternal release of the mass o	inont, rear) Itence, prop) (internal, external) Itence, other) control (elec., mech., n.a.) itence, other) control (elec., mech., n.a.)	Heat setting acrylic enamel Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech.		
Type of finish Hood Trunk fid Hatch-back lid Tailgate	Hilacquer, enamel. Material & mass Hinge location (f Type (counterba Release control Material & mass Type (counterba Internal release Material & mass Type (counterba Internal release Material & mass Type (counterba Internal release Control (crant,	other) Iront, rear) Ilence, prop) (Internal, external) Ilence, other) control (elec., mech., n.a.) Ilence, other) control (elec., mech., n.a.)	Heat setting acrylic ename! Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech.		
Type of finish Hood Trunk fid Hatch-back lid Tailgate Vent window friction, pivot,	h (lacquer, enamel, Material & mass Hinge location () Type (counterbs Release control Material & mass Type (counterbs internal release Material & mass Type (counterbs internal release Material & mass Type (drop, lift, cinternal release o control (crants, power)	inont, rear) Itence, prop) (internal, external) Itence, other) control (elec., mech., n.s.) Itence, other) control (elec., mech., n.s.)	Heat setting acrylic ename! Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech.		
Type of finish Hood Trunk fid Hatch-back lid Tailgate Vent window riction, pivot. Window regu	h (lacquer, enamel, Material & mass Hinge location () Type (counterbs Release control Material & mass Type (counterbs internal release Material & mass Type (counterbs internal release Material & mass Type (drop, lift, cinternal release o control (crants, power)	inont, rear) Itance, prop) (internal, external) Itance, other) control (elec., mech., n.s.) Itance, other) control (elec., mech., n.s.) Itance, other) control (elec., mech., n.s.)	Heat setting acrylic ename! Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech.		
Type of finish Hood Trunk fid Hatch-back fid Tailgate Vent window regulacion, pivot, Window regulacion, tape, cable, tape,	h (lacquer, enamel, Material & mass Hinge location (f Type (counterba Release control Material & mass Type (counterba internal release Material & mass Type (counterba internal release Material & mass Type (drop, lift, (internal release of control (crank, power)	inont, rear) Idence, prop) (internal, external) Idence, other) control (elec., mech., n.s.) Idence, other) control (elec., mech., n.s.) Idence, other) control (elec., mech., n.s.) Idence, mech., n.s.) Idence, mech., n.s.	Heat setting acrylic ename! Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech. Cable		
Type of finish Hood Trunk fid Hatch-back lid Tailgate Vent window friction, pivot, Window regu (cable, tape, 1	h (lacquer, enamel, Material & mass Hinge location (Type (counterba Release control Material & mass Type (counterba Internal release Material & mass Type (counterba Internal release Material & mass Type (counterba Internal release Control (crank, power) Ideator type flex, crive, etc.)	iront, rear) liance, prop) (internal, external) liance, other) control (elec., mech., n.s.) liance, other) control (elec., mech., n.s.) foor) ontrol (elec., mech., n.s.) Front Rear	Heat setting acrylic ename? Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech. Cable Bucket. Foam		
Type of finish Hood Trunk Bd Hatch-back Bd Tailgate Vent window friction, pivot, Window regu (cable, tape,	h (lacquer, enamel, Material & mass Hinge location (Type (counterba Release control Material & mass Type (counterba Internal release Material & mass Type (counterba Internal release Material & mass Type (counterba Internal release Control (crank, power) Ideator type flex, crive, etc.)	iront, rear) Ilance, prop) (internal, external) Ilance, other) control (elec., mech., n.s.) Ilance, other) control (elec., mech., n.s.) Front Rear Front Rear Front	Heat setting acrylic ename! Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech. Cable		
Type of finish Hood Trunk fid Hatch-back fid Tailgate Vent window friction, pivot, Window regu (cable, tape, 1984), twine, foam etc.	h (lacquer, enamel, Material & mass Hinge location () Type (counterba Release control Material & mass Type (counterba Internal release Material & mass Type (counterba Internal release Material & mass Type (counterba Internal release of control (crank, power) listor type (drop, lift, control (crank, power) listor type flex, drive, etc.)	iront, rear) Itence, prop) (internal, external) Itence, other) control (elec., mech., n.s.) Itence, other) control (elec., mech., n.s.) Front Rear Front Rear	Heat setting acrylic ename! Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech. Cable Bucket. Foam Bench, Foam		
Type of finish Hood Trunk fid Hatch-back fid Tailgate Vent window friction, pivot, Window regu (cable, tape, 1 Seat cushion (e.g., 50/40, the wire, foarm etc.)	h (lacquer, ename). Material & mass Hinge location (f Type (countertus Release control Material & mass Type (countertus Internal release Material & mass Type (countertus Internal release Material & mass Type (crontertus Internal release Control (crontertus Internal release o control (crante, power) Internal release o control (crante, power) Internal release o topic (crante, power) Internal release o control (crante, power)	iront, rear) Iront, rear) Idence, prop) (internal, external) Idence, other) control (elec., mech., n.s.) Idence, other) control (elec., mech., n.s.) Iront Rear Front Rear Front Rear Front Rear Jiront Rear Front Rear	Heat setting acrylic ename? Steel. 17.2 kg Rear Internal Steel. 10.1 kg Gas spring Mech. Cable Bucket. Foam		

Vehicle Line Mitsubishi Eclipse

Model Year 1990 Issued 1988-8 Revised (*)

Body Type				D21A, D22A				
Restra	aint f	System						
Seating Position			Left	Center	Right			
		Type & description (lep & shoulder belt.		First seel	-	-	<u>-</u>	
Active		iap belt, etc.)		Second seet	3 point seat belt with ELR	-	3 point seat belt with ELR	
		Standard/optional		Third seat	- .	-	_	
		Type &		First seat	Motorized 2 point belt & manual lap belt		Motorized 2 point belt & manual lap belt	
Passive .		description (air beg, motorized - 2-point bell, fixed bet knee botster, manual lap belt)		Second	•	-	-	
		Standard/optional		Third seed	-	-	-	
Glass			SAE Ref. No.					
Windshiel surface er	id glas rea (cr	ne exposed	S 1	10291 (1595)~				
Side glass area (cm²	(in.))	seed surface - total 2-sides	52	9393 (1456)*				
Backlight surface a	glass res (c	exposed m²(in,²)]	sı	8839 (1370)				
Total glas area (cm	99 exp (in.*)]	osed surface	\$ 4	28523 (4421)				
Windshie	eid gla	ss (type)		Curved-laminated plate				
Side glass	s (type)		Curved-Tempered plate				
Backlight	gless	(l)(pe)		Curved-tempered plate				
Lamps	and	Headlamp Loc	cations	3				
		Description - sealed t halogen, replaceable	buth, etc.	Sealed beam, Halogen				
	-	Shape		Rectangular				
Headlamp	1 2	Lo-beam type (2A1, 2 2C1, etc.)	S 1,	2E1				
·		Quantity			Two			
		Hi-beam type (1A1, 2/ 2C1, etc.)	A1, 1C1,	ZE1				
		Coentry		<u>.</u>		Two		
Frame	-							
Type and ounitized for	deecri rame, p	ption (separate frame partially-unitized frame). •)			-		
						<u> </u>		

Vehicle Line Mitsubishi Eclipse

Model Year 1990 Issued 1988-8 Revised (e)

	Body Type		D21A D22A					
			MNJEL. MRJEL	MNHEL. MRHEL	MNHML, MRHML	MNHEL		
	Conveni	ence Equipment (standard, opti	onal, n.a.)					
Ø	Air condition auto, temp o	ing (manual,		Opt. (Manual temp control)				
	Clock (digital	i, analog)		Std. (Digital)			
	Compass/th	nermometer			. A.			
	Console (floc	or, overhead)			console			
	Defroster, ek	sc. becklight			td.			
		Diagnostic monitor (Integrated, individual)			grated			
•		Instrument cluster (list instruments)	Std. (Speedometer Eng. Coolan	. Tachometer, Tri t Ind., Oil press	pmeter. Fuel Ind.			
		Keyless entry			4	Boost Meter		
	Electronic	Tripminder (evg. spd., fuel)		N./				
		Voice afert (list items)	N.A.					
		Other		-				
		<u> </u>		-				
	Fuel door loc	k (remote, key, electric)	Remote					
		Auto head on/off delay, dimming		N.A.				
		Cornering	N.A					
		Courtesy (map, reading)		Room. Ma				
		Door lock, ignition		<u> Ianit</u>	ion			
		Engine compertment		N.A				
	Lamps	Fog		N. A				
		Glove compartment		Std.				
		Trunk	Std.					
Ø		Illuminated entry system (list lamps, activation)	N.A.					
_		Other		-				
	 .	Day/night (auto, man.)	 	C+ -	(M)			
		L.H. (remote, power, heated)	Std. (Direct resots)					
		R. H. (convex, remote, power, heeted)	Stu. (Dower)					
	Mirrors	Visor vanity (RH / LH, illuminated)	2001 (21.400 (4m008)	RH/L				
•		The same of the sa		<u> </u>	<u> </u>			
Ø	Navigation sy	stem (describe)	,	N. A	١.			
į	Parking brake	-auto release (warning light)	N.A.					

Vehicle Line_	<u>Mit</u> subishi	Eclipse	
Model Year_		1988-8	Revised (*)

	Body Type			D21A D22A				
				MNJEL. MRJEL	MNHEL MRHEL MNHML MRHML MNHFL			
	Convenie	nce Equi	pment (standard, optional,	n.a.)				
Ø		Deck lid (re	risace, pull down)		N. A.			
		Down tooks	(menual, autometic,		Single Action Key Less Lock			
		describe s						
				- ,	Opt. (Center Door Lock)			
			2-4-6 way, etc.	N. A.				
		İ	Reclining (R.H., L.H.)	<u> </u>	. N. A. V			
		Seats	Memory (R.H., L.H., presst, recline)		N. A.			
	Power		Lumber, hip, thigh, support		N. A.			
	equipment		Heated (R.H., L.H., other)		N.A.			
		Side windo	rris	N.A.	Opt. (Power Window)			
		Vent windo	w\$		N.A.			
		Reer windo	wa		N. A.			
		Antenna (lo	cation, whip. w/shield, power)	Rear Quarter, Whip.				
Ø		Standard Optional	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM MPX ETR	AM/FM MPX ETR & Casset Stereo			
				AM/FM (MPX) ETR & Casset Stereo	<i>f</i>			
	Radio systems			Audio System (AM/FM MPX ETR & Casset Stereo with Graphic equalizer)				
				Audio System (AM/FM ETR with Casset Stereo & CD Player)				
		Speaker (re.	umber, location)	Std. (I/pan···2. Rear Seat Side···2)			
		•	·	Opt. (Front Door · · · 2)			
•	Roof open air	fixed (file-up.	sliding, "T")		N.A.			
	Speed control device			Opt.				
:	Speed warning device (fight, buzzer, etc.) Tachometer (rpm)				N.A.			
:				Std.				
:	Telephone sys	pterm (describ	•)	N. A.				
:	Theft deterren	t system		<u></u>	N. A.			
•			·					

Vehicle Models Mitsubishi Eclipse

Model Year 1990 | Issued 1988-8 | 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.

Body Type	SAE Ref.		D22A		
Width	No.	MNHML, MRHML	MNHFL		
	W101	1465 57.7			
Freed (front)	 		·		
freed (rear)	W102				
/ehicle width	W103	1690 66.5			
Body width at Sg RP (front)	W117	1690	 		
/ehicle width (front doors open)	W120	1690			
(ehicle width (rear doors open)	W121	<u> </u>			
ront fender overall width	W106	1675			
ear fender overall width	W107	1660			
umble-home (deg.)	W122	30°			
ehicle width including mirrors	l				
ength			<u> </u>		
Yheelbase	L101	2470 97.2			
ehicle length	L103	4330 170.5			
Overhang (front)	L104	950			
Overhang (rear)	L105	910			
Joper structure length	L123	2560			
lear wheel C/L "X" coordinate	L127	2470			
lowl point "X" coordinate	L125	410			
ront end length at centerline	L126	1285			
ear and length at centerline	L129	325			
leight ^a :: essenger distribution (front/rear)	P01.2.3	Front: 2, Rear: 2			
runt/cargo toed		-			
ehicle height	H101	1306 51 4			
ow! point to ground	H114	920			
eck point to ground	H138	985	 		
locker panel-front to ground	H112	216			
lottom of door closed-front to ground	H133	364			
locker panel-rear to ground	H111	218			
lottom of door closed-rear to ground	H135		<u> </u>		
Vindshield slope angle	H122	63°			
acklight slope angle	H121	72°			
iround Clearance	1		<u> </u>		
ront bumper to ground	H102	201	161		
lear bumper to ground	H104	298	•		
lumper to ground (front it curb mass (wt.))	H103	242	202		
Bumper to ground (rear It curb mass (wt.))	H105	347			
ngle of approach (degrees)	H106	16.5°	13.5°		
ngle of departure (degrees)	H107	19.0°			
lamp breakover angle (degrees)	H147	16°			
xie differential to ground (front / rear)	H153	Front 195			
lin, running ground clearance	H156	160	<u></u> :		
ocation of min. run. grd. clear.	 	Flexible Pipe			

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.

 Vehicle Models
 Mitsubishi Eclipse

 Model Year
 1990
 Issued
 1988-8
 Revised (e)

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

Body Type		D21A, D22A		
Front Compartment	Ref.			
	No.	1446		
Sg RP front, "X" coordinate	L31	1410		
Effective head room	H61	962 37.9		
Max. eff. leg room (accelerator)	134	1114 43.9		
SgRP to heel point	H30	197		
SgRP to heel point	L53	910		
Sack angle	140	25°		
Hip angle	1.42	101°		
Knee angle	L44	141°		
Foot angle	L46	95°		
Design H-point front travel	L17	260		
Normal driving & riding seat track trvt.	123	260		
Shoulder room	W3	1370 53.9		
Hip room	W5	1400 55./		
Upper body opening to ground	H50	1190		
Steering wheel maximum diameter*	W9	370		
Steering wheel angle	H18	19"		
Accel, heef pt. to steer, while onto	Lii	420		
Accel, heel pt. to steer, whil ontr	H17	760		
Steering wheel to C/L of thigh	H13	123		
Steering wheel torso clearance	L7	410		
Headlining to roof panel (front)	H37	20		
Undepressed floor covering thickness	H67	20		
Rear Compartment		<u> </u>		
Sg RP Point couple distance	LS0	635		
Effective head room	H63	867 34.1		
Min. effective leg room	LS1	724 28.5		
Sg RP (second to heel)	H31	285		
Knee dearance	1,48	0		
Compartment room	L3	525		
Shoulder room	W4	1330 52,4		
Hip room	We	1160 45.7		
Upper body opening to ground	H51	1180		
Back angle	L41	278		
Hip angle	143	88"		
Knee angle	LAS	72°		
Foot angle	147	102°		
Headlining to roof panel (second)	H30	20		
Depressed floor covering thickness	H73	20		
Luggage Compartment	•			
Jaable luggage capacity (L (cu. ft.))	Vı	N. A.		
Littover height	H195	935		
Interior Volumes (EPA Class	Ification	n)		
Vehicle class		Sub compact cars		
nterior volume index (cu. fL)	 	91		
Trunk/cargo index (cu. ft.)	 	10,201		
See Page 14.	1	IVIGVI		

^{*} See Page 14.

Mitsubishi Eclipse **MVMA Specifications Form** Vehicle Line _ 1990 issued 1988-8 Model Year_ Revised (*) **METRIC (U.S. Customary)** Vehicle Dimensions See Key Sheets for definitions **Body Type D22A** D21A MNHML, MRHML MNHFL BAE Ref. No. Station Wagon - Third Seat Seat facing direction SD1 Sq RP couple distance LBS Shoulder room W85 Hip room W86 Effective leg room LDS Effective head room Has Sg RP to heel point H87 Knee cleerance L87 Back angle LBB Hip angle 189 Knee angle 40 Foot angle 191 Station Wagon - Cargo Space Cargo length (open front) L200 Cargo length (open second) L201 Cargo length (closed front) L202 _ Cargo length (closed second) L203 Cargo length at belt (front) L204 Cargo length at belt (second) L205 Cargo width (wheelhouse) W201 Rear opening width at floor W203 Opening width at belt W204 Min. rear opening width above belt W205 Cargo height H201 Rear opening height H202 Tailgate to ground height H250 Front seat back to load floor height H197 Cargo volume index [m3(tt,5)] **V2** Hidden cargo volume index (m3(fL3)) V4 Cargo volume, index-rear of 2-seat V10 Hatchback - Cargo Space

Cargo length at front seatback height	L208	840	
Cargo length at floor (front)	L209	1405	
Cargo length at second seatherk height	L210	424	
Cargo length at floor (second)	t211	755	
Front seatback to load floor height	H197	488	
Second seatback to load floor height	H196	368	
Cargo volume index (m³(ft.³))	V3	0.729 (25.7)	_
Hidden cargo volume index (m²(tt.²))	V4 .	-	
Cargo volume index-rear of 2-seat	V11	0.288 (10.2)	

Aerodynamics*

Wheel tip to ground, front	680	
Wheel lip to ground, rear	690	
Frontal area (m²(fr²))		
Drag coefficient (Cd)	0.331	0.294

EPA Loaded Vehicle Weight, Loading Conditions

Vehicle Line_	Mitsubishi	Eclipse		
Model Year_	<u> 1990 </u>	ued 1988-8	Revised (*)	

Body Type		D21A, D22A					
Vehic	ie Fiduci	al Marks					
iducial lumber	Mark	Define Coordinate Location					
Frant		+YX					
		Deturn plans district.					
		Datum plane definition - Vertical longitudinal plane through the					
•	ł	longitudinal center of the car.					
		Vertical transverse plane through the front wheel center.					
		Horizontal plane through the lower surface					
duciel erk umber		of the front floor panel.					
	W21*	480					
	L54°	- 405					
ront	H81°	195					
	H161°	410					
	H183*						
-	W22*	480					
	L\$5°	2975					
	H82°	196					
-	H162*	414					

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

Vehicle Line Mitsubishi Eclipse

Model Year 1990 tssued 1988-8 Revised (e)

METRIC (U.S. Customary)

		Vehicle Mass (weight)							
			CURB MASS, kg. (15.)*		% PASS. MASS DISTRIBUTION				Γ
Code	Model				Pass in Front		Pass in Reer		1
		Front	Rear	Total	Front	Reer	Front	Rear	ETWC**
D21AMNJEL	4M, 9M	700	445	1145	43	57	17	83	2875
·		(1543)	(981)	(2524)	<u> </u>			ļ	(6338)
D21AMRJEL	4M. 9M	725	445	1170	43	57	17	83	3000
		(1598)	(981)	(2579)	7.3	3/	17.	93	(6614)
001 10000	444 644								
D21AMNHEL	4M, 9M	715	452	1167	43	57	17	83	3000
<u> </u>	<u> </u>	(1576)	(996)	(2572)	↓_				(6614)
D21AMRHEL	4M OM	740	452	1192	43	57	 	- 00	2000
<u> </u>	7116 311	(1631)	(996)	(2627)	43	5/	17	83	3000
		1(1031)	(330)	(2021)			 	<u> </u>	(6614)
D22AMNHML	4M, 9M	755	460	1215	43	57	17	83	3125
		(1664)	(1014)	(2678)					(6889)
DOCAMOUNI	49 89		122						
D22AMRHML	4M, 9M	780	460	1240	43	57	17	83	3125
		(1720)	(1014)	(2734)	 				(6889)
D22AMNHFL	4M, 9M	780	465	1245	43	57	17	83	3125
			(1025)	(2745)	1 -3	<u> </u>	17	- 63	(6889)
							<u> </u>	1	100037
									
									
				<u> </u>					
					 				
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SHIPPING MASS (weight) = Curb Weight Less Kg. (lbs.)_

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

^{**} ETWC - Equivalent Test Weight Class - U.S. Environmental Protection Agency emission certifications are based on the ETWC's shown. NA - Not Applicable - applies to model/senes combinations not requiring testing.

Mitsubishi Eclipse

METRIC (U.S. Customary)

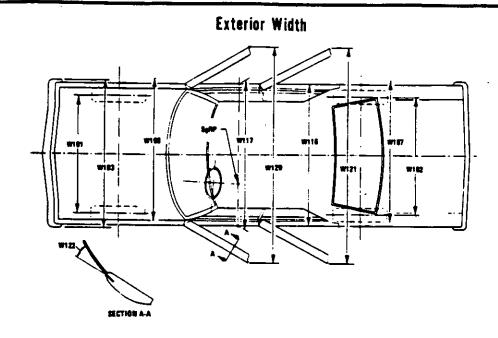
1990 Issued 1988-8 Model Year__ Revised (*)

		Optional Equipment Differential Mass (weight)*					
0-4-			MASS, kg.		Remarks		
Code	Equipment	Front	Rear	Total	Restrictions, Requirements		
A1	r-Conditioner	22.4	(0)	22.4			
		(49,4)	(0)	(49.4)	<u> </u>		
Re	ar Shelf		2.6	2.6			
	iai Jheri	(0)	(5.7)	(5.7)			
			13011	13.77			
Po	wer Steering	6.7	0	6.7			
		(14.8)		(14.8)			
Re	ar Window Wiper	0	3.7	3.7	· · · · · · · · · · · · · · · · · · ·		
		(0)	(8.2)	(8.2)			
PO	wer Window	1.4	1.5	2.9			
		(3.1)	(3.3)	(6.4)			
Á	to Speed Control	2.0	0	 			
<u> Au</u>	to speed Control	(8,4)	(0)	(8.4)			
		(0.4)	. (0)	(0.4)			
	·						
	<u>.</u>		<u> </u>		· · · · · · · · · · · · · · · · · · ·		
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			-				
		<u> </u>					
					 		

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

METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions – Key Sheet



Exterior Length & Height

H122

H123

H124

H125

H126

H126

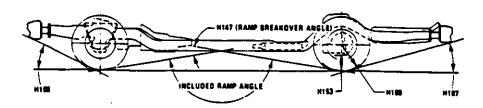
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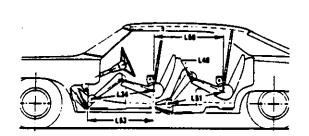
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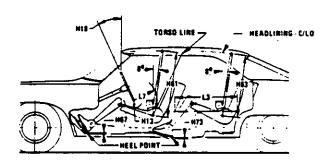
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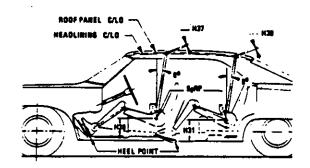


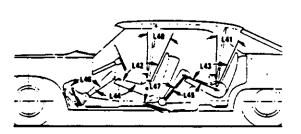
METRIC (U.S. Customary)

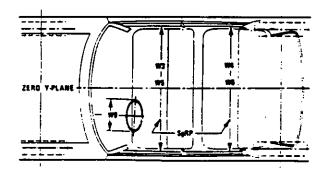
Interior Vehicle And Body Dimensions - Key Sheet

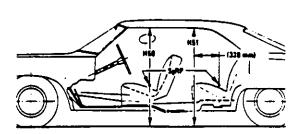








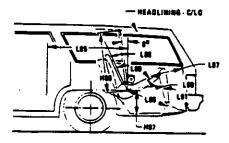




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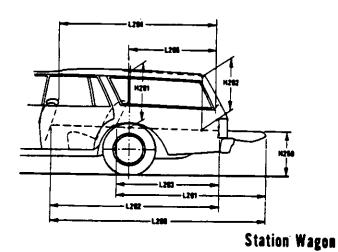
Interior Vehicle And Body Dimensions – Key Sheet

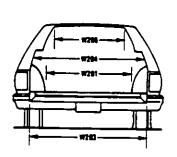
Third Seat

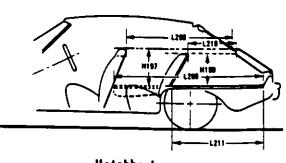




Cargo Space







Hatchback

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 vehi-
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations,".

Width Dimensions

- TREAD-FRONT. The dimension measured between the W101 tire centerlines at the ground.
- W102 TREAD-REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment,
- FRONT FENDER WIDTH. The dimension measured be-W106 tween the widest points at the front wheel centerline, excludina moldinas.
- REAR FENDER WIDTH. The dimension measured be-W107 tween the widest points at the rear wheel centerline, excluding moldings.
- BODY WIDTH AT SQRP-FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings,
- W120 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.
- W122 TUMBLE-HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
 CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

Length Dimensions

- 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.
- VEHICLE 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.
- L104 OVERHANG-FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment,
- L105 OVERHANG-REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case

- of dual rear axies, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.
- UPPER STRUCTURE LENGTH. The dimension measured L123 longitudinally from the cowl point to the deck point.
- L125 COWL POINT "X" COORDINATE.
- FRONT END LENGTH. The dimension measured longitud-L126 inally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost point of front end contour.
- 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.
- REAR END LENGTH. The dimension measured longitudi-L129 nally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- 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, exclu-
- ding 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.
- H114
- BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO
- 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.
- BOTTOM OF DOOR CLOSED-FRONT TO GROUND. H133 The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum
- closed position, to ground.

 BOTTOM OF DOOR CLOSED-REAR TO GROUND. The H135 dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H138 STATIC LOAD-TIRE RADIUS-REAR. Specified by the HIDE manufacturer in accordance with composite TIRE SEC-TION 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.). Measured in the same manner as H102.

METRIC (U.S. Customary)

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

H104	REAR BUMPER TO GROUND. The minimum dimension
	measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard
	equipment.

REAR BUMPER TO GROUND - CURB MASS (WT.). H105 Measured in the same manner as H104.

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

designated.
ANGLE OF DEPARTURE. The angle measured between H107 a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be desig-

nated. 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 dimension measured from the rear axle differential to ground.

H158 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

Glass Areas

- Windshield area.
- Side windows area. Includes the front door, rear door, **S2** vents, and rear quarter windows on both sides of the vehi-
- Backlight areas.
- Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

Fiducial Mark - Number 1

- L54 'X" coordinate. "Y" coordinate. W21
- "Z" coordinate. H81
- H161
- Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground. H163 Fiducial Mark - Number 2
- L55
- "X" coordinate.
 "Y" coordinate. W22
- W82 "Z" coordinate.
- Height "Z" coordinate to ground at curb weight. H162
- Height "Z" coordinate to ground. H164

Front Compartment Dimensions

- STEERING WHEEL TORSO CLEARANCE. The minimum L7 dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- ACCELERATOR HEEL POINT TO STEERING WHEEL L11 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 mea-L17 sured horizontally between the design H-point-front in the foremost and rearmost seat track positions. (See SAE J1100)
- L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100)

- 131 SgRP-FRONT. "X" COORDINATED.
- MAXIMUM EFFECTIVE LEG. ROOM-ACCELERATOR. L34 The dimension measured along a line from the ankle pivot center to the SgRP-front plus 254 mm (10.0 in) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If teh accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depres-
- sion of the pedal.

 BACK ANGLE-FRONT. The angle measured between a vertical line through the SgRP-front and the torso line. If 1-40 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 144 thigh centerline and lower leg centerline measured on the right leg.
- 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 hori-L53
- zontally from the SgRP-front to the accelerator heel point. SHOULDER ROOM-FRONT. The minimum dimension W3 measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front at height between the belt line and 254 mm (10.0 in.) above the SgRP-front, ex-
- cluding the door assist strap and attaching parts.

 HIP ROOM-FRONT. The minimum dimension measured **W5** laterally between the trimmed surfaces on the "X" plane through the SgRP-front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP-front and 76 mm (3.0 in.) fore and aft of the SgRP-front.
 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER.
- W9 Define if other than round.
- STEERING WHEEL TO CENTERLINE OF THIGH. The H13 minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
- ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically H17 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.
- SGRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point.
 HEADLINING TO ROOF PANEL-FRONT. The dimension H30
- **H37** measured from the intersection of the headlining and the extended effective head room line normal to the sheet
- UPPER BODY OPENING TO GROUND-FRONT. The di-H50 mension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane.

 EFFECTIVE HEAD ROOM-FRONT. The dimension mea-
- H61 sured along a line 8 deg. rear of vertical from the SgRP-
- front to the headlining plus 102 mm (4.0 in.).
 FLOOR COVERING THICKNESS—UNDEPRESSED—FRONT. The dimension measured vertically from the sur-H67 face of the undepressed floor covereing to the underbody sheet metal at the accelerator heel point.

Rear Compartment Dimensions

COMPARTMENT ROOM-SECOND. The dimension mea-L3 sured horizontally from the back of the front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

- L-41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP-second and the torso line.
- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower log centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the balt and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254mm (10.0 in.).
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND. Measured in the same manner as W5.
- H31 SgRP-SECOND TO HEEL. The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51 UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP-second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

Luggage Compartment Dimensions

- VI 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.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Interior Volumes (EPA Classification)

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

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

Station Wagon - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second to the SgRP-third
- L86 EFFECTIVE LEG ROOM—THIRD. The dimension measured along a line from the ankle pivot center to the SgRP—third plus 254 mm (10.0 in.).
- L87 KNEE CLEARANCE-THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE-THIRD. Measured in the same mannere 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. EFFECTIVE HEAD ROOM-THIRD. The dimension, measured along a line 8 deg. from the SgRP-third to the head-lining 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 - 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 "V" plane.
- is a conventional door type tailgate at the zero "Y" plane.

 CARGO LENGTH-OPEN-SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- ventional door type tailgate, at the zero "Y" plane.

 L202 CARGO LENGTH-CLOSED-FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH—CLOSED—SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT-FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to he 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.

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

W203	sion measured laterally between the limiting interferences of
W204	the rear opening at floor level. REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of
W205	the rear opening at belt height or top of pick up box. REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interfer-
H197	ences of the rear opening above the belt height. FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to
H201	the top of the seatback to the undepressed floor covering. CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining
H202	at the rear wheel "X" coordinate on the zero "Y" plane. 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
H250	fully open. 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:
	$\frac{W4 \times H201 \times L204}{1728} = ft^3$
	Magazired in mm:
	<u>W4 x H201 x L204</u> 10 ⁹ = m ³ (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: L506 x W500 x H503
	1728 = ft ³ Measured in mm: L506 x W500 x H503 10 ⁹ = m ³ (cubic meter)
V6	TRUCKS AND MPV'S WITH CLOSED AREA. Measured in inches: L204 x W500 x H505
	1728 Measured in mm: 1204 x W500 x H505 109 = m ³ (cubic meter)
V8	SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the
V10	load floor rear of the second seat. STATION WAGON CARGO VOLUME INDEX. Measured in inches:
	H201 x L205 x W4 + W201
	1728 = ft ³
	Measured in mm:
	H201 x L205 x W4 + W201
	10 ⁵ = m ³ (cubic meter)

Hatchback - Cargo Space Dimensions

All hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For electrically adjusted seats, see the manufacturer's specifications for Design "H" Point).

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

L209 CARGO LENGTH AT FLOOR—FRONT—HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT—
HATCHBACK. The minimum dimension measured from the
"X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the
H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.

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

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

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

V3 HATCHBACK,

Measured in Inches:

Measured in mm:

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

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

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