

Specifications Form Passenger Car

1985

METRIC (U.S. Customary)

Manufacturer	Car Line	
Toyota Motor Corporation	MR2	
Mailing Address	Model Year	issued:
Toyota Motor Sales, U.S.A., Inc. 2055 West 190th Street Torrance, California 90504	1985	Revised (*)

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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 completion and are subject to change without notice by the manufacturer.
- Additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

Car Line	MR2		
Model Year	1985	_Issued	Revised (*)

Model Description	Introduction Date	Make. Car Line, Series, Body Type (Migr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max Truck/Cargo Load – Kilograms (Pounds)
5-speed M/T		AW11L-WCMQFA	2/0	Front: 15 Rear: 30
2-door Coupe				
		•		
·				
		•		
		•		
			•	

MVMA-C-85

Car Line	MR.2		
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Power Teams (Indicate whether standard or optional)

SAE Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

	ENGINE						. <u></u> .	
SERIES AVAILABILITY	Displ. Liters (m ³)	Carb. (Barrels, Fl. etc.)	Compr. Ratio	SAE Ne kW (bhp)	Torque N - m (lb. ft.)	Exhaust System*	TRANSMISSION	AXLE RATIO (std. first) (indicate A/C ratio)
AW11L-WCMQFA	1.587 ₪	F.I.	9.4	kW/rpm 84/ 6600	N-m/rpm 132/ 4800	Semi- dual	5-speed M/T	
			·					
J								

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Car Line	MR2		_	
Model Year	1985	issued	Revised (*)	

Engine Description/Carb. Engine Code		4A-GELC
ENGINE - GENE	ERAL	
Type & description (in flat, location, front, mit transverse, longitudin	d, rear,	Inline, flat, mid, transverse, DOHC, pentroof
No. of cylinders		4
Bore	·	81.0 mm
Stroke		77.0 mm
Bore spacing (c/l to c	/1)	87.5 mm
Cylinder block materia	al	Gray cast iron
Cylinder block deck h	eight	191 mm
Deck clearance (minit (above or below block		0
Cylinder head materia	ıl	Aluminum alloy
Cylinder head volume	(cm ³)	36.0 cm ³
Head gasket thicknes (compressed)	:5	1.2 mm
Minimum combustion chamber volume (cm ³		47.2 cm ³
Cyl. no. system	L Bank	1-2-3-4
(front to rear)	R. Bank	
Firing order		1-3-4-2
Recommended fuel (leaded, unleaded, die	rsei)	Unlead ed
Fuel antiknock index (R ÷ M) 2		87
Total dressed engine n	nass (wt) dry ""	120
Engine - Piston		
Material		Aluminum alloy
Mass, g (weight, oz.) — Piston Only		305 g
Engine - Camsh	naft	, , , , , , , , , , , , , , , , , , ,
Location		Over cylinder head
Material (kg., weight, I	bs.)	Alloy cast iron
Mass (kg., weight, lbs.)	No.1 (In. 1.66)

(Ex. Belt 19.1 mm

Belt 9.525 mm

No . 2

Width

Pitch

Type of drive (chain or belt)

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

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

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Engine Description/Carb. Engine Code		irb.			
			4A-GELC		
Engine	– Valve S	ystem			
Listana (ata	., opt., n.a.)	Hydraulic	N.A.		
	001 11.43	Solid	STD		
Engine -	- Connec	ting Rods			
Material &	maas (kg., w	eight, lbs.)	Carbon steel, 0.456 kg		
Engine -	- Cranksi	naft			
Material (k	g., weight, Ib:	s.)	Carbon steel		
Mass (kg.,	weight, Ibs.J		1.15 kg		
End thrust taken by bearing (no.)		aring (no.)	#3		
Engine -	- Lubrica	tion System			
Normal oit	pressure (kP	a (psi) at engine rpm]	392/6000 kPa/rpm		
Type oil int	ake (floating	, stationary)	Stationary		
Oil filter sy	stem (full flo	w, part, other)	Full flow		
Capacity of	c/case. less	s filter-refill-L (qt.)	w/Filter: 3.7%, *3.8% w/o Filter: 3.0%, *3.1%		
			* with air conditioner		
Engine -	- Diesei I	nformation			
Glow plug,	current drain	at O°F			
Injector	Туре				
nozzie Opening pressure (kPa (psi))		ressure [kPa (psi)]			
Pre-chamb	er design				
Fuel intection	Manufacti	ırer			
oumo_	Туре				
Supplemen	tary vacuum	source (type)			

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Engine Des Engine Cos	scription/Carb. 1e		4A-GELC
Engine -	Fuel System	l (See suppl	emental page for details of Fuel injection, Supercharger, Turbocharger, etc. if used)
Induction ty	pe: carburetor, fo	uel	F.I.
	Migr.	1	•
	Choke (type)		-
Carbure-	Idle spdrpm	Manual	•
tor	(spec. neutral		-
	or drive and	Automatic	•
	il used)		•
Idle A/F mix	τ.	•	14.6
	Point of injection	an (no.)	4
Fuel	Constant, pulse	a, flow	Pulse
injection	Control (electro	onic, mech.)	Electronic
	System pressu	re [kPa (psi)]	250 kPa
	fold heat control ermostatic or fixe		-
Air cleaner	Standard		Dry, 1 element, None
type	Optional		N.A.
	Type (elec. or mech.)		Electric motor
pump Location (eng., tank)		tank)	In fuel tank
	Pressure range	(kPa (psi))	250 kPa
Fuel Tan	k		
Capacity (re	efill L (gallons))		41
Location (d	escribe)		Front part under floor
Attachment	1		Band is used
Material			Lead & fin plating steel
Filler	Location & mar	terial	Left wheel quater copper plating steel pipe
DIDE	Connection to	tank	Rubber hose
Fuel line (n	naterial)		Copper plating steel
Fuel hose (material)		Rubber hose with intermediate blade
Return line	(material)		Copper plating steel
Vapor line	(material)		Copper plating steel (power painted)
	Opt., n.a.		N.A.
Extended	Capacity IL (gr	allons)]	
range	Location & ma	terial	
tank	Attachment		• '
	Opt., n.a.		N.A.
	Capacity (L (g		
Auxiliary	Location & ma	terial	-
tank	Attachment		
	Selector switc	h or valve	
	Separate fill		_

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Engine Description/Carb. Engine Code	4A-GELC			
Engine — Cooling System				
Conjunt recovery evetom (etc., oct., n.o.)	CTD			

Coolant rec	covery syste	em (std., opt., n.a.)	STD		
Coolant fill	location tra	id., bottle)	Exclusively with filler (right rear sub-tower)		
Radiator ca	p relief val	ve pressure (kPa (psi))	88.3 kPa (Filler cap, valve opening pressure)		
Circula-	Type (ch	oke, bypass)	Bypass		
tion thermostat	Starts to	open at °C (°F)	82 °C		
	Type (ce	ntrifugal, other)	Centrifugal		
		O pump rpm	401142774947		
Water pump	Number	of pumps	1		
pamp	Drive (V-	pelt, other)	V-belt		
	Bearing (type)	Sealed rubber, Ball bearing		
By-pass rec	rculation	[type (inter., ext.)]	Engine block outside		
		oss-flow vertical	Cross flow, tube fin,		
		ther) and material)	C268ORS (Tube) C110ORS-1/2H (Fin)		
	With heat	er_L(qt)	12.3 (M/T)		
Cooling system	 	ondL(at)	12.5 ℓ (M/T)		
apacity		ment (specify-L(qt))	(W E)		
Water lacks		th of cyl. (yes, no)	Yes		
		ter (yes, no)	No		
		Width	57.5		
	}	Height			
	Standard	Thickness	318		
		Fins per inch	32		
		Width	19.9		
ladiator	A/C	Height			
ore		Thickness			
		Fins per inch	•		
		Width			
	Heavy duty	Height			
		Thickness			
		Fins per inch			
		of blades & type d. material)	<u> </u>		
_	Diameter	& projected width			
an Standard)	Ratio (lan	to crankshaft rev.)			
	Fan cutou	it type	•		
	Drive [typ	e (direct, remote))	•		
	Fan shro	id (material)			
	Diameter	& projected width	Ø280 x 88 (M/T)		
Fan (electric)	RPM at id	le	2100 rpm		
	Motor rati	ng (wattage)	80 W		
	Motor sw	tch (type & location)	Thermoswith radiator		
	Switch po	oint (temp_ pressure)	90°C		
	Fan shrou	id (material)	Steel		
		des and spacing			
	Diameter	& projected width			
an Ontropol)	Ratio (far	to crankshaft rev.)			
optional)	Fan cut-o				
		e, direct, remote)			

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F !_ A					
Engine Description/Carb. Engine Code			4A-GELC		
Vehicle	Emission	Cont	rol		
	Type (air in modificatio			-	
		թոան	(type)	-	
		Drive	n by	•	
	Air Injection		istribution d. manifold. etc.)		
		Point	of entry	-	
Exhaust			(controlled flow, orifice, other)	Controlled flow	
Emission Control	Exhaust Gas	Exha	ust source	Exhaust manifold	
	Recircula- tion	(spac	of exhaust injection er, carburetor, lold, other)	Intake manifold	
		Туре		3 way	
	į	Numt	per of	1.	
	Catalytic Converter		tion(s)	Rearward engine room	
			ne (L (in ³))	1.3 %	
		Substrate type		Monolith	
		Type (ventilates to atmosphere, induction system, other)		Closed	
Crankcase Emission	Energy sou vacuum, ca	Energy source (manifold vacuum, carburetor, other)		Manifold loading pressure, Crankcase pressure	
Control	Discharges manifold, o		iķe	Intake manifold	
	Air inlet (bi	eather	cap, other)	Throttle body	
	Vapor venti Icrankcase		Fuel tank		
Evapora- live	canister, of	her)	Carburetor		
Emission Control		Vapor Storage provision (crankcase, canister, other)		Canister	
Engine ·	– Exhaus	st Sys	tem		
Type (sing dual, other	ile, single w	ith cros	8-Over,	Semi dual	
Muffler no. & type (reverse flow, straight thru, separate resonator)			1, Reverse flow		
Resonator	no. & type				
Exhaust	Branch	.d., wal	l thickness	42.7 mm, 2.0 mm	
pipe	Main o.d.	. wall ti	nickness	48.6 mm, 2.0, 1.5 mm	
	Material			Stainless steel	
inter- mediate	o.d. & wa	il thick	ness	42.7 mm, 1.6 mm	
DIDE	Material			Aluminum coated steel	
Tail pipe	O.d. & wa	in inick	ness	31.8 mm, 1.2 mm	
	Material			Aluminum coated steel	

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	(C.S. Gustomary)	
Engine Description/Carb. Engine Code		4A-GELC
Electrica	! - Supply System	
	Voltage rtg. (V & total plates)	12
	Minimum reserve cranking	-
Battery	SAE capacity (amps)	60AH .
	Location	Engine compartment left front
Generator	Type and rating	AC 60A
or	Ratio (alt. crank/rev.)	1:2.17
allernator	Optional (type & rating)	-
Regulator	Туре	IC
Electrica	I - Starting System	
Start. motor	Current drain at 0°F	-
	Engagement type	Shift
Motor drive	Pinion engages from (front, rear)	Right

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Engine Description/Carb. Engine Code			4A-GELC		
Electrical	- Ignitio	n System			
		ai (std., opt., n.a.)	N.A.		
Туре	Transistoria	ted (std., opt., n.a.)			
	Other (spec	sify)	N.A.		
	Make		Nippon Denso		
6.0	Model		90919-02113		
Coil	Current	Engine stopped — A			
	Guirent	Engine idling — A			
	Make		Nippon Denso Nihon plug		
_	Model		ND PQ16R (90919-01121), NGK BCPR5EP11 (90919-01122)		
Spark	Thread (mn	n)	M14 x 19 mm		
plug	Tightening	torque [N-m (lb., ft.)]	17.7 N-m		
	Gap		1.1 mm		
	Маке	.	ND		
Distributor	Model				
Electrical	- Suppre	ssion			
Locations & t	уре		Resistance built-in plug, Thermal spraying rotor, Resistance built-in high tension code		
Electrical	– Instrun	nents and Equipmen	ıt		
Speed-	Туре		Needle type, round		
ometer		ter (std_ opt_ n.a.)	STD		
EGR mainten	ance indicat	or	N.A.		
Charge	Туре		Electrical		
indicator	Warning de	VICE	Lamp		
Temperature	Туре		Electrical gauge		
indicator	Warning de	vice	N.A.		
Oil pressure	Туре		Electrical gauge		
indicator	Warning de	vice	N.A.		
Fuel	Туре		Electrical gauge		
indicator	Warning de	vice	Lamp		
	Type (stand	tard)	Motor, 3 steps		
Wind- shield	Type (optio	nail			
wiDet	Blade lengt	ħ	450 mm		
	Swept area	[cm ² (in. ²)]	5950 cm ²		
Wind-	Type (stand	tard)	Electrical		
shield	Type (optio	nall	-		
wasner	Fluid level	ndicator	N.A.		
Hora	Туре	· · · · · · · · · · · · · · · · · · ·	Electrical flat type		
Horn	Number use	ed	2		
Other					

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Engine Description/Carb. Engine Code			4A-GELC
Transmis	ssions		
Manual 3-s	peed (std., opt., n	.a.)	-
Manual 4-s	speed (std., opt., r	n.a.)	-
Manual 5-s	speed (std., opt., n	.a.)	STD
Manual ove	erdrive (std., opt.,	n.a.)	-
Automatic (std., opt., n.a.)		•
Automatic o	overdrive (std., op	it., n.a.)	_
Manual T	Fransmission	-	
	forward speeds		5
	In first		3.166
	in second	<u> </u>	1,904
	In third		1.310
Transmis-	In fourth		0.969
sion ratios	In fifth		0.815
	in overdrive		
	In reverse	·	3.250
Synchronou	is meshing (spec	ify gears)	All Forward Gears (1st, 2nd, 3rd, 4th, 5th)
Shift lever I	ocation	· · ·	Floor
	Capacity [L (p	IJj	2.3 %
	Type recomme	nded	Multi purpose API GL-4
Lubricant	SAS	Summer	7.5W=90
	SAE vis-	Vinter	7.5W-90
	unwper E	xtreme cold	7 5W-90
Clutch (A	Manuai Trans	mission)	Aisinseiki, Dry, single plate
Type press	ure plate springs		Diaphragm spring
Total spring	load [N (Ib.)]		4214 N
No. of clute	n driven discs		1
	Material		Semimold
	Manufacturer	· · · · · · · · · · · · · · · · · · ·	Aisinkako or Nisshin boseki
	Part number		31256-17010
	Rivets/plate		16
Clutch	Rivet size		4 1011
facing	Outside & ins	ide dia.	200 x 140 mm
	Total eff. area	[cm ² (in, ²)]	160 cm ²
	Thickness		3.5 mm
	Engagement of method	cushion	Cushion spring
	ise Type & method Cincle 14-2 ball bander Channel Channel		04-1-14-1111-4
Release bearing			Single line ball bearing, Grease sealing type

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Engine Description/Carb. Engine Code			4A-GELC
Automati	c Transm	ilssion	
Trade name			
Type (desc	ribe)		-
	Location		
Selector	Lir./No. de	esignation	
	Я		
	D		
Gear ratios	L3		
	L ₂		
	L ₁		
Max, upshift	speed - dr	ve range (km/h (mph))	
		drive range [km/h (mph)]	
Min, overdri	ve speed (k	m/h (mph))	
	Number o	f elements	
Torque	Max. ratio	at stall	
converter	Type of c	ooling (air, liquid)	
	Nominal o	liameter	
	Capacity	[refill L (pt.)]	
Lubricant	Type reco	mmended	
Special tran	smission		
features			
Axle or F	ront Whe	el Drive Unit	
Type (front,	reari		Rear wheel drive
Description			Helical gear
Limited slip	differential	(type)	N.A.
Orive pinion	offset		-
Drive pinion	(type)		Helical gear
No. of differe	ential pinion	13	2
Pinton adjus	tment (shir	ı. otheri	
Pinion beari	ng adj. (shir	n, other)	N.A.
Driving wne	el bearing (i	lype)	
	Capacity [L (pt.)]		(2.3 ℓ)
	Туре гесс	mmended	Multi purpose API GL-4
Lubricant		Summer	75W-90
	SAE vis-	Winter	75W-90
	number	Extreme cold	75W-90
	-	1 =	
		· · · · · · · · · · · · · · · · · · ·	nbinations (See "Power Teams" for axle ratio usage.)
Axle ratio or		0	4.312
No. of	Pinion		16
teeth	Ring gear	or gear	69
Ring gear o.	d.		-
Transaxie	Transfer g	ear ratio	
	Final drive	ratio	-

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Car Line	MR2	
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Engine Description/Carb. Engine Code	4A-GELC	

Propeller Shaft - Conventional Drive Type (straight tube, tube-in-tube, Tube-in-tube internal-external damper, etc.) Manual 3-speed trans Manual 4-speed trans. 10 Outer diam. x Left Ø 23.5 X 359.6 mm Right Ø 23.5 X 601.2 mm length x Manual 5-speed trans. wall thickness Overdrive Automatic transmission Type (plain. Interanti-friction) mediate Lubrication (fitting, bearing prepack) Type Slip Number of teeth yoke Spline o.d. Toyota 43403-32011 inner Make and mfg. no. Toyota 43405-17020 Outer Number used tnner Tripot, plunging Type, size, plunge Outer Rzeppa, fixed Universal joints Attach (u-bolt, clamp, etc.) Snap ring Type (plain, anti-friction) Bearing Lubric, (fitting, prepack) Drive taken through (torque tube. arms or springs) Torque taken through (torque tube. arms or sorings)

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

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			_	
	Engine Description/Carb. Engine Code			4A-GELC
Axle Shar	fts - Front	Wheel D	rive	
Number use	đ			
Type (straig) tubular, etc.)			Left	
	T		Right	
	Manual trans	mission	Left	
Outer giam, x			Right	
length * x	Automatic tra	nemiesion.	Left	
thick- ness	Automanc III	_	Right	
	Optional transmission		Left	
			Right	
	Туре			
Slip yoke	Number of teeth			
	Spline o.d.			
	Make and -	in no	Inner	
	Make and mi	ig. no.	Outer	
	Number used	1		
	Tuna siza a		Inner	
Universal	Type, size, plunge		Outer	
joints	Attach (u-bolt, clamp, etc.)		c.)	
	Resuga	Type (plain anti-friction		
	Bearing	Lubric, (fitt prepack)	ing,	
Drive taken t	through (torque	tube,		
Torque taxes	n through (torq	jue tube,		

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

Car Line	MR2			
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Engine Description/Carb. Engine Code			4A-GELC		
Tires A	and Wheels (Standard)			
	Size (load range		185/60R14 82H		
	Type (bias, radial, etc.)		Radial		
Tires	Inflation pressure (cold) for	Front [kPa (psi)]	210		
	recommended max. vehicle load	Rear [kPa (psi)]	210		
	Rev./mile-at 70) km/h (45 mph)	921		
	Type & material	· · · · · · · ·	Steel		
	Rim isize & flan	ge type)	5 ¹ /2-Jx14		
Mheata	Wheel offset		39		
Wheels		Type (bolt or stud)	Nut		
	Attachment	Circle diameter	100		
		Number & size	4, 12 (P=1.5)		
	Tire and wheel other describe)	Isame, if	TIRE: T125/70D14, WHEEL: 4T x 14		
Spare	Storage position (describe)	a & location	Front luggage room		
Tires A	\nd Wheels (Optional)			
Size (load range, ply)			185/60R14 82H		
Type (b)	as, radiai, etc.)		Radial		
Wheel (t	ype & material)		Aluminum		
Rim (size	Rim (size, flange type and offset)		5 ¹ /2-JJx14		
Size Iloa	id range, ply)		•		
Type (bi	as. radial. etc.)		-		
Wheel (t	ype & material)		-		
	e. flange type and	offset)	•		
	id range, ply)				
	as, radial, etc.)		•		
	ype & material)		-		
	e, flange type and	t offset)	•		
	id range, ply)		•		
	as. radial, etc.)		-		
	ype & material)	<u>_</u>			
	e, flange type and	1 offset)			
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		icribe I/or wheel	-		
Brakes	a — Parking				
Type of	control				
Location	of control				
Operates	s on		•		
	Type (inte	rnal or external)	N.A.		
if sepa- rate from	Drum diam	neter	N.A.		
service brakes	Lining size		N.A.		
					

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Body Type And/Or Engine Displacement AW11L-WCMQFA 4A-GELC

Brakes - Service

Brakes	- Serv	ice			
Description	n				
Brake type Front (disc or drum)			Front Idisc or	drum)	Disc, STD
(std., opt., o	n.a.)		Rear (disc or o	trum)	Disc, STD
Self-adjus	ting (std.,	opt., n.a.)		STD
Special valving	Type (p	roportion	n, delay, metering	, other)	P & B valve
Power brai	ke istd o	pt., n.a.)	· · · · · · · · · · · · · · · ·		STD
Booster ty	pe (remol	e, integra	al. vac., hyd., etc.,)	Direct, vacuum
Anti-skid o			pt., n.a.)		N.A.
Effective a				Fr/Rr	172/136 cm ²
Gross linir) • • <u> </u>	Fr/Rr	172/136 cm ²
Swept are	a icm²(in	.2)] ***	_	Fr/Rr	1118/1067 cm ²
	Outer w	orking d	liameter	F	243 mm
				R	240 mm
	Inner w	orking d	iameter	F	147 mm
Potor				R	147 mm
	Thickne	255		F	18 mm
				R	10 mm
	Materia	I & type	(vented/solid)	F	Cast iron, Ventirated
	ļ			R	Cast iron, Solid
	Diamete			F	N.A.
Drum	(nomina			R	N.A.
	-	pe and material			N.A.
Wheel cyl-	Front				51.10 mm
Dore	Rear		-		36.51 mm
Master	Bore			Fr/Rr	22.22/22.22 mm
cylinder	Stroke			Fr/Rr	15.00/12.00 mm
Pedal arc					4.0 mm
		5 N (100	0 lb.i pedal load	KPa (psi)	9050 kPa (500 mmHg)
Lining clearance	Front				Self Adjusting
Der shoe	Rear	l n			Self Adjusting
		<u> </u>	or riveted trivet	3/3eg.)	Bonded
	1	Rivet s	· · · · · · · · · · · · · · · · · · ·		
		—			Sumitomo
	Front	Lining			<u> </u>
	wheel	Materia			Resin molded
	-		Primary or out-		103.7 x 44.4 x 10 mm
Srake		Size	Secondary or i		103.7 x 44.4 x 10 mm
gninii			hickness (no lini)	<u> </u>	5.0 mm
			d or riveted (rivet	5/58g.)	Bonded
	ļ	Manufa			Nishimoto
	 Rear	Lining			Particular malded
	wheel	Materia			Resin molded
			Primary or out-		82.0 x 44.5 x 10 mm
		Size	Secondary or i		94.0 x 42.9 x 10 mm 0.8 5.0 mm I.B 6.0 mm
	Shoe thickness (no lining)		ng)	0.B 5.0 mm I.B 6.0 mm	

^{*} Excludes rivet holes, grooves, chamlers, etc.

^{**} Includes rivet holes, grooves, chamfers, etc.

^{***} Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia. minus Square of Inner Working Dia. multiplied by Pi/2 for each brake.)

^{****} Size for drum brakes includes length x thickness.

Car Line	MR2			
Model Year	1985	_tssued	Revised (*)	

	2-door Coupe, 4A-GELC		
Steering			
Manual (std., opt., n.a.) STD			
Power (std. opt. n.a.) N.A.			
Adjustable Type and description Tilt			
(tilt, swing, other) (Std. opt., n.a.) STD			
Wheel diameter 380 OPT: 384			
Power -			
Outside Wall to wall (I. & r.) 10.4			
Turning front Curb to curb (t. & r.) 9.6			
m (ft.) Inside Wall to wall (i. & r.) 5.3			
rear Curb to curb (I. & r.) 5.5			
Type Rack & Pinion			
Gear TOYOTA MOTOR CO.			
Manual Ratios Gear ©			
Overail 18.0			
No. wheel turns (stop to stop) 3.2			
Type (coaxial, linkage, etc.)	<u>-</u> -		
Make			
Туре			
Power Gear - Gear - Ratios			
Overall			
Pump (drive) —			
No, wheel turns (stop to stop)			
Type Accarman			
Location (front or rear of wheels, other) Rear of wheels			
Drag links (trans. or tongit.) N.A.			
Tie rods (one or two) 2			
Inclination at camber (deg.) 12°05 *			
Steering Ball bearing			
axis Bearings (type) Lower Ball joint			
Thrust	· ·		
Steering spindle & joint type			
Diameter 28.0			
Wheel Outer bearing 61.0			
spindle Thread (size) M20 x 1.5			
Bearing (type) Double row angular ball bearing			

(METRIC (U.S. Customary)

Car Line	MR2			
Model Year	1985	Issued	Revised (*)	

Body Type And/Or Engine Displacement 2-door Coupe , 4A-GELC

Wheel Alignment

WIIGEI AII	3.41.611	,	
		Caster (deg.)	5°15' ± 45'
	Service checking	Camber (deg.)	0°15' ± 45'
		Toe-in (outside track-mm (in.))	1 ± 1
Front		Caster	5°15' ± 30'
wheel at	Service reset*	Camber	0°15' ± 45'
(wt.)	reser.	Toe-in	1 ± 1
	Periodic	Caster	5°15' ± 45'
•	M.V. in-	Camber	0°15' ± 45'
	spection	Toe-in	1 ± 1
	Service	Camber (deg.)	-45' ± 45'
	checking	Toe-in (outside track-mm (in.)]	5 ± 1
Rear wheel at curb mass reset*	Camber	-45' ± 30'	
	reset*	Toe-in	5 ± 1
(wt.)	Periodic	Camber	-45' ± 45'
	M.V. in- spection	Toe-in	5 ± 1

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

MR2 Car Line_ 1985 Model Year_ Issued_ _Revised (*)_

MEIRIC	(U.S. Customary)					
Body Type Engine Dis		2-door Coupe, 4A-GELC				
Suspens	ion — General					
	Std./opt./n.a.	N.A.				
Car leveling	Type (air. hyd., etc.)	-				
revening.	Manual/auto. controlled	-				
Provision fo	or brake dip control	-				
Provision (or acci. squat control	-				
Special pro		-				
Shock	Туре	Double acting cylinder				
absorber	Make	TOYOTA MOTOR CO.				
(front & rear)	Piston diameter	ø30.2 , ø20				
Other spec	ial features					
Suspens	ion — Front					
Type and o	escription	Macpherson strut				
-	Full jounce	75				
Travel	Full rebound	90				
£	Type (coil, leaf, other)	Coil spring				
	Material	SUP7				
Soring Size (coil design height & i.d., bar length x dia.)		283.5 X Ø 118.9				
	Spring rate [N/mm (lb./in.)]	17.6				
	Rate at wheel [N/mm (lb./in.)]	19.6				
Stabilizer	Type (link, linkless, frameless)	Link type				
	Material & bar diameter	SUP6 , Ø 18.0				
Suspens	ion - Rear					
Type and d	escription	Macpherson strut				
Drive and to	orque taken through	_				
Travel	Full jounce	80				
	Full repound	90				
	Type (coil, leaf, other)	Coil type				
	Material	SUP7				
	Size (length x width, coil design height & i.d., bar length & dia.)	298.5 X (Ø87.1 Ø 117.1)				
Spring	Spring rate [N/mm (lb./in.)]	31.4				
	Rate at wheel [N/mm (lb./in.)]	33.3				
	Mounting insulation (type)	Insulation up and bottom				
	If No. of leaves	-				
	leaf Shackle (comp. or tens.)					
	Type (link, linkless, trameless)	Link type				

Track bar (type)

Material & bar diameter

SUP6 ø10

Car Line	MR2		_	
Model Year	1985	Issued	Revised (*)	

		_				
Body Type			2-door Coupe			
Bodv –	Miscellaneous	a Information				
	nish (lacquer, enan		Acrylic or Alkyd resins			
	Hinge location		Rear			
Hood	Type (counterby	alance, prop)	Prop			
	Release control	(internal, external)	Internal			
Trunk	Type (counterby	Blance, other)	Counter balance			
lid	Internal release	control (elec., mech., n.a.)	Mechanical			
Bumper	Bar material & r	nass (wt.)	Urethane 3.7			
front	Reinforcement	material & mass (wt.)	Steel 8.2			
Bumper	Bar material & i		Urethane 3.7			
rear	Reinforcement	matenal & mass (wt.)	Steel 10.1			
	ow control (crank,	Front				
friction, pi	vot, power)	Rear				
		Front	Spring + foampad			
Seat cushi	Seat cushion type Rear					
		3rd seat	<u> </u>			
		Front	Spring + foampad			
Seat back	type	Rear				
		3rd seat				
Vehicle ide	ent. no. location		Instrument panel top left			
	•					
Passive	Restraint Sys	tem				
	Standard/ optional		Standard			
Inflatable restraint system	Type of charging system	n	3-point, w/retractor			
	Location (stg. wht., instru. panel, other)		3-point, 2 seats			
	Standard/ optional		N.A.			
Passive manual seat			N.A.			
belts	2 or 3 point		N.A.			
Knee bar/ lap belt			N.A.			
Frame						
	description (separa		Monocoque body			

unitized frame, partially-unitized frame)

Car Line	MR2			
Model Year_	1985	_lssued	Revised (*)	

Body Type		2-door Coupe				
Conveni	ience Equipment					
_	Side windows	OPT				
Power windows	Vent windows	N.A.				
	Backlight or tailgate	N.A.				
Power seat well as ava	ts (specify type as nilability)	N.A.				
Reclining f	ront seat back (r-l or both)	Yes, Both				
Radio (spe- well as ava	cify type as allability)	OPT: AM/FM MPX AM/FM MPX ETR W/Cassette				
Premium si	ound system (specify)	N.A.				
Rear seat :	speaker	N.A.				
Power ante	enna	N.A.				
Clock		STD				
	oner (specify type)	OPT				
	ning device	N.A.				
Speed continuition loc		STD				
Dome tamp		STD				
	partment lamp	N.A				
	ompartment lamp	N.A.				
Underhood		N.A.				
Couriesy la	amp	N.A.				
Map lamp		N.A.				
Cornering	lamp	N.A				
Rear windo	ow defroster heated	STD				
Rear windo	ow detogger	N.A.				
T-par roof	(describe)	N.A.				
Sun roof (c	describe)	OPT: Detachable type				
Theft prote	ection—type	·				
	.					
	· · · · · · · · · · · · · · · · · · ·					
-						
						
	·					

Car Line	MR2			
Model Year_	1985	_ Issued	Revised (a)	

FEATURE HIGHLIGHTS

(Manufacturers selected list of special vehicle features; indicate if new or model year introduced)

BODY:		-		
CHASSIS:			· · · · · · · · · · · · · · · · · · ·	
ENGINE:	<u> </u>			
ELECTRICAL:		 		
•				
OTHER:		 ,	 	

MVMA-C-85

Car Line	MR2			
Model Year	1985	issued	Revised (*)	

Vehicle Mass (weight) CURB MASS, kg. (weight, lb.)* % PASS. MASS DISTRIBUTION SHIPPING Pass in Front Pass in Rear MASS, kg. (weight lb.)** Model Front Rear Front Rear Front 460 575 1035 AW11L-WCMQFA 46 54 1010

** Shipping mass (weight) definition -

^{*} Reference — SAE J1100a, Motor vehicle dimensions, curb weight definition.

Car Line	MR2_		
Model Year_	1985	Issued	Revised (*)

		Opt	ional Equipa	nent Differential Mass (weight)*
	M	ASS, kg. (wer	ght, (b.)	Remarks
Equipment	Front	Rear	Total	Hemarks
Air conditioner	15.5	10.0	25.5	
All conditioner		10.0	23.3	
Detachable moonroof	4.5	6.0	10.5	
Rear spoiler	-1	5.0	4.0	
Power window & Power	1.5	1.5	3.0	
door lock	1.0	2.5	3.5	
024280 00				
	 			
	 			
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^{*} Also see Engine — General Section for dressed engine mass (weight).

Car Line	MR2			
Model Year	1985	Issued	Revised (*)	_

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

SAE Bet

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line. SAE Ref. no, refers to the definition published in SAE Recommended Practice.
J1100a "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	Ref. No.	2-door Coupe
Width	<u> </u>	
Tread (front)	W101	1440
Tread (rear)	W102	1440
Vehicle width	W103	1665
Body width at Sg RP (front)	W117	1650
Vehicle width (front doors open)	W120	3605
Vehicle width (rear doors open)	W121	_
Length		
Wheelbase	L101	2320
Vehicle length	L103	3925
Overhang (front)	L104	835
Overhang (rear)	L105	770
Upper structure length	L123	1585
Rear wheel C/L "X" coordinate	L127	2315
Cowl coint "X" coordinate	L125	340
Height*		
Passenger distribution (trt./rear)	PD1.2.3	2
Trunk/cargo load	-	FR/RR 0/0
Vehicle neight	H101	1235
Cowl point to ground	H114	830
Deck point to ground	H138	880
Rocker panel-front to ground	H112	155
Bottom of door closed-front to grd.	H133	260
Rocker panel-rear to ground	H111	155
Bottom of door closed-rear to grd.	H135	-
Ground Clearance*		
Front bumper to ground	H102	380
Rear pumper to ground	H104	380
	11104	
Bumper to ground (front at curb mass (wt.))	H193	395
Bumper to ground frear at curp mass (wt.)	H105	395
Angle of approach	H106	14.0°
Angle of departure	H107	20.0°
Ramp breakover angle	H147	14.0°
Rear axle differential to ground	H153	150
Min, running ground clearance	H156	130
Location of min. run. grd. clear.	1 - i	Ex. pipe protector

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds).

^{*} All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified. Manuafacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

Car Line	MR2			
Model Year	1985	issued	Revised (*)	

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

SAE Ref. No. 2-door Coupe	
Sg RP front, "X" coordinate L31 D: 1335 mm P: 1305 mm Effective head room H61 D: 949 mm P: 946 mm Max. eff. leg room (accelerator) L34 D: 1093 mm P: *1155 mm Sg RP (front to heel) H30 D: 210 mm P: 214 mm Design H-point front travel L17 D: 179 mm P: 149 mm Shoulder room W3 D: 1352 mm P: 1352 mm Hip room W5 D: 1317 mm P: 1316 mm	
Effective head room	
Effective head room	
Sg RP (front to heel)	
Sg RP (tront to heel) H30 D: 210 mm P: 214 mm Design H-point front travel L17 D: 179 mm P: 149 mm Shoulder room W3 D: 1352 mm P: 1352 mm Hip room W5 D: 1317 mm P: 1316 mm	
Design H-point front travel L17 D: 179 mm P: 149 mm	
Shoulder room W3 D: 1352 mm P: 1352 mm Hip room W5 D: 1317 mm P: 1316 mm	
Hip room W5 D: 1317 mm P: 1316 mm	
Upper body opening to ground H50 1140	
Steering wheel angle H18	
Back angle L40 D: 23° P: 23°	
Rear Compartment	
Sg RP Point couple distance L50 _	
Effective head room H63	
Min. effective leg room 1.51	
Sg RP (second to heel) H31	
Knee clearance L48	
Compartment room L3	
Shoulder room . W4 _	
Hip room W6 _	
Upper body opening to ground H51	**
Luggage Compartment	
Usable luggage capacity [L (cu. ft.)] V1 220	
Liftover neight H195 815	

All linear dimensions are in millimeters (inches).

*: Measured at the position below.

Dash panel

-L34

MVMA-C-85

Car Line	MR2			
Model Year_	1985	Issued	Revised (*)	

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	2-door Coupe
Station Wagon — Third Seat		
Shoulder room	W85	-46
tip room	W86	-
ifective leg room	L86	
ffective head room	H86	•
Iffective T-point head room	H89	•
Seat facing direction	SD1	
Station Wagon — Cargo Spa		
Cargo length topen fronth	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	
Max, rear opening width above belt	W205	
Cargo height	H201	-
Rear opening height	H202	-
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [m3(ft.3)]	V2	-
Hidden cargo volume (m ³ (ft. ³))	V4	-
Hatchback - Cargo Space		
Front seat back to load floor height	H197	-
Cargo length at front seat back height	L208	-
Cargo length at floor (front)	L209	-
Cargo volume index (m3(ft.3))	V3	_
Hidden cargo volume (m3(ft,3))	V4	-

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1 100a "Motor Vehicle Dimensions") may be available from the manufacturer.

All dimensions are in millimeters (inches).

MVMA	Spec	ificati	ons	Form
Passer	aer (Car		

Car Line	MR2			
Model Year	1985	Issued	Revised (*)	

Body 1	Гуре	2-door Coupe
Vehic	ele Fiduc	ial Marks
Fiducia	al Mark	Define Coordinate Location
Numbe	er i	
Rear		Center of seat track outer installation hole (both RHD & LHD sides) on front floor cross member. Center of the installation hole on the front floor (both RHD & LHD side)
iducia Vark Vumbei	r	
	W21	W5 + 73 L19 + 55 (5)
ront	H81	H10 + 86
	H161	230
	H163	230
	W22	W5 + 47
	L55	L24 + 50 (5)
lear	H82	Н9 + 79
	H162	155
	H164	155

 $^{^*}$ Reference — SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks — September, 1973. All linear dimensions are in millimeters (inches).

MVMA Specifications Form Car to Passenger Car Mode METRIC (U.S. Customary) Car and Body Dimensions See Key Sheets for definitions

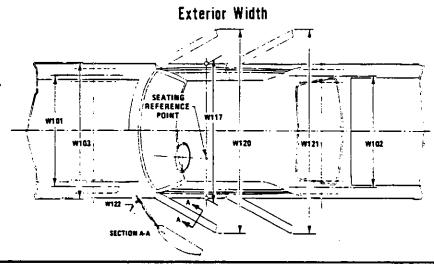
Car Line	MR2		
Model Year	1985	lssued	Revised (*)

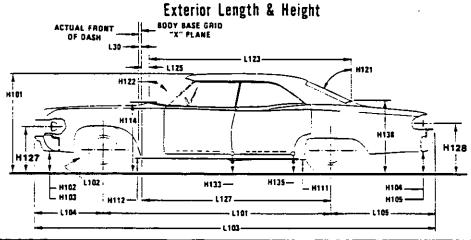
Body Type SAE Ref. No.		Ref.	2-door Coupe
Glass			
Backlight slope	angle (deg.)	H121	20.5°
Windshield slop	e angle (deg.)	H122	60°
Tumble-Home (d	(pet	W122	28.5°
Windshield glas surface area (ci	s exposed n ² (in. ²)]	S1	8,752
Side glass expo area [cm ² (in. ²)]	sed surface	S2	6,328
Backlight glass surface area (cr		S3	2,902
Total glass expo area (cm ² (in. ²))	sed surface	S4	17,982
Windshield glas	s (typel		Laminated glass
Side glass (type	e)		Tempered glass
Backlight glass	(type)		11
Lamps and H	leadlamp Sha;		<u>.i</u>
	Headlamp (H1 27)		680
Height above ground to center of bulb or marker	Taillamp (H1 28)		705
		Front	450
	Sidemarker	Rear	455
,	Headlamp		550
Distance from C/L of car to center of bulb	Taillamp		600
		Front	505
	Directional	Rear	615
Headlamp shap			

^{*} Measured at curb mass (weight).
** If single lamps are used enter here.

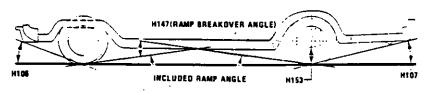
METRIC (U.S. Customary)

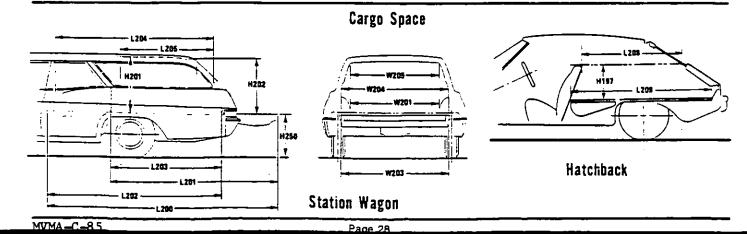
Exterior Car And Body Dimensions - Key Sheet





Exterior Ground Clearance

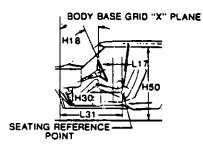


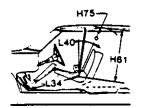


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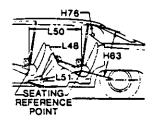
Interior Car And Body Dimensions — Key Sheet

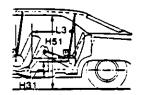
Front Compartment



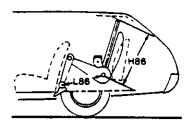


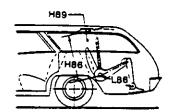
Rear Compartment

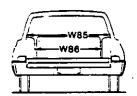




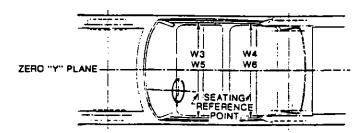
Third Seat







Interior Width



METRIC (U.S. Customary)

Exterior Car And Body Dimensions — Key Sheet Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which —

(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle:

(b) Has coordinates established relative to the design vehicle structure;

(c) Simulates the position of the pivot center of the human torso and thigh; and

(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions

- W101 TREAD—FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD—REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- W117 BODY WIDTH AT SgRP—FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH—FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH—REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- 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

Length Dimensions

- L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash in forward of the zero "X" plane.
- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L102 TIRE SIZE. As specified by the manufacturer.

glass at the front SgRP "X" plane.

- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHANG—FRONT. The dimension measured longitudinally from the centerline of the front wneels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

- L105 OVERHANG—REAR. The dimension measured longitudinally from the centerline of the rear wheels: or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.
- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.
- L125 COWL POINT "X" COORDINATE.

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H138 DECK POINT TO GROUND, Measured at zero "Y" plane.
- H112 ROCKER PANEL—FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H132 BOTTOM OF DOOR OPEN—FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.
- H111 ROCKER PANEL—REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H134 BOTTOM OF DOOR OPEN—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.
- H135 BOTTOM OF DOOR CLOSED—REAR TO GROUND.
 The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield are running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.
- H127 HEADLAMP TO GROUND—CURB MASS (WT.). The dimensional measured vertically from the centerline of the lowest headlamp tens to ground.
- H128 TAILLAMP TO GROUND—CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.

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.

METRIC (U.S. Customary)

Interior Car And Body Dimensions — Key Sheet Dimensions Definitions

FRONT BUMPER TO GROUND CURB MASS (WT.).
Measured in the same manner as H104.
REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the
rear bumper to ground, including bumper guards, if
standard equipment.
REAR BUMPER TO GROUND-CURB MASS (WT.).
Measured in the same manner as H104.
ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded
radius are the initial point of structural interference
forward of the front tire to ground. The limiting struc-
tural component shall be designated.
ANGLE OF DEPARTURE. The angle measured bet-
ween a line tangent to the rear tire static loaded radius are the initial point of structural interference
rearward of the rear tire to ground: The limiting com-
ponent shall be designated.
REAR 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
REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle
differential to ground.
MINIMUM RUNNING GROUND CLEARANCE. The
minimum dimension measured from the sprung vehi-
cle to ground. Specify location.
ompartment Dimensions
PASSENGER DISTRIBUTION—FRONT.
SGRP-FRONT "X" COORDINATED.
EFFECTIVE HEAD ROOM-FRONT. The dimension
measured along a line 8 deg. rear of vertical from the
SgRP—front to the headlining plus 102 mm (4.0 in.). EFFECTIVE T-POINT HEAD ROOM—FRONT. The
minimum radius from the T-point to the headlining
plus 762 mm (30 in.).
MAXIMUM EFFECTIVE LEG ROOM-ACCELERA-
TOR. 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 un-
depressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator
pedal may be depressed as specified by the
manufacturer. If the accelerator is depressed, the
manufacturer shall place foot flat on pedal and note
the depression of the pedal.
SgRP—FRONT TO HEEL. The dimension measured
vertically from the SgRP—front to the accelerator
heel point. DESIGN H-POINT—FRONT TRAVEL. The dimension
measured horizontally between the design H-point—
front in the foremost and rearmost seat trace posi-
tions.
SHOULDER ROOM—FRONT. The minimum dimen-
sion measured laterally between the trimmed sur-
faces on the "X" plane through the SgRP—front with-
in the bett line and 254 mm (10.0 in.) above the SqRP—front.
HIP ROOM—FRONT. The minimum dimension
measured laterally between the trimmed surfaces on
the "X" plane through the SgRP—front within 25 mm
(1.0 in.) below and 76 mm (3.0 in.) above the SgRP-
front and 76 mm (3.0 in.) fore and aft the SgRP—front.

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

L40 BACK ANGLE—FRONT. The angle measured between a vertical line through the SgRP—front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION—SECOND.

L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP—front to 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.).

H76 EFFECTIVE T-POINT HEAD ROOM—SECOND.

H76 EFFECTIVE T-POINT HEAD ROOM—SECOND Measured in the same manner as H75.

L51 MINIMUM EFFECTIVE LEG ROOM—SECOND. The dimension measured along a line from the ankle pivot center to the SgRP—second plus 254 mm (10.0 in.).

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.

L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).

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

W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP—second within 254-406 mm (10.0-16.0 in.) above the SgRP—second.

W6 HIP ROOM – SECOND. Measured in the same manner as W5.

HS1 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.

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.

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

Station Wagon - Third Seat Dimensions

PD3 PASSENGER DIRECTION—THIRD.

W85 SHOULDER ROOM—THIRD. Measured in the same manner as W5.

W86 HIP ROOM— THIRD. Measured in the same manner as W5.

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.).

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.).

H89 EFFECTIVE T-POINT HEAD ROOM—THIRD. Measured in the same manner as H75.

Interior Car And Body Dimensions — Key Sheet Dimensions Definitions

Station	Wagon - Cargo Space Dimensions	H201	CARGO HEIGHT. The dimension measured vertically		
L200	CARGO LENGTH-OPEN-FRONT. The minimum		from the top of the undepressed floor covering to the		
	dimension measured longitudinally from the back of		headlining at the rear wheel "X" coordinated on the		
	the front seatback at the height of the undepressed		zero "Y" plane.		
	floor covering to the rearmost point on the un-	H202	REAR OPENING HEIGHT. The dimension measured		
	depressed floor covering on the open tailgate or		vertically from the top of the undepressed floor cover-		
	cargo surface if the rear closure is a conventional		ing to the upper trimmed opening on the zero "Y"		
	door type tailgate, at the zero "Y" plane.		plane with rear door fully open.		
L201	CARGO LENGTH-OPEN-SECOND. The dimension	H250	TAILGATE TO GROUND (CURB MASS WT.). The		
	measured longitudinally from the back of the second		dimension measured vertically from the top of the un-		
	seatback at the height of the undepressed floor		depressed floor covering on the lowered tailgate to		
	covering on the open tailgate or cargo floor surface if		ground on the zero "Y" plane.		
	the rear closure is a conventional door type tailgate,	V2	STATION WAGON		
	at the zero "Y" plane.		Measured in inches:		
L202	CARGO LENGTH—CLOSED—FRONT. The minimum		$\frac{\text{W4 x H201 x L204}}{1728} = \text{ft.}3$		
	dimension measured horizontally from the back of the		1728		
	front seat at the height of the undepressed floor		Measured in mm:		
	covering to the rearmost point on the undepressed		W4 x H201 x L204 =m3(cubic meter)		
	floor covering on the closed tailgate or taildoor for		109 =m3(cubic meter)		
	station wagons, trucks and mpv's at the zero "Y"		-		
	plane.	V4	HIDDEN CARGO VOLUME. As specified by the		
L203	CARGO LENGTH—CLOSED—SECOND. The dimen-		manufacturer.		
	sion measured horizontally from the back of the se-	Hatcht	Hatchback - Cargo Space Dimensions		
	cond seat at the height of the undepressed floor	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			
	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"	electrically adjusted seats, see the manufacturer's specifica-			
	plane.		for Design "H" Point).		
L204	CARGO LENGTH AT BELT—FRONT. The minimum	H197	FRONT SEATBACK TO LOAD HEIGHT. The dimen-		
	dimension measured horizontally from the back of the	H197	sion measured vertically from the horizontal tangen		
	front seatback at the seatback top to the foremost		to the top of the seatback to the undepressed floo		
	normal surface of the closed tailgate or inside surface		·		
	of the cab back panel at the height of the belt, on the	L208	covering. CARGO LENGTH AT FRONT SEATBACK HEIGHT		
	zero "Y" plane.	L208	The minimum horizontal dimension from the "X" plane		
L205	CARGO LENGTH AT BELT—SECOND. The minimum		tangent to the rearmost surface of the driver's seat		
	dimension measured horizontally from the back of the		back to the inside limiting interference of the		
	second seatback at the seatback top to the foremost		hatchback door on the vehicle zero "Y" plane.		
	normal surface of the closed tailgate at the height of	. 200	CARGO LENGTH AT FLOOR-FRONT-		
	the belt, on the zero "Y" plane.	L209	HATCHBACK. The minimum norizontal dimensio		
W201	CARGO WIDTH—WHEELHOUSE. The minimum		measured at floor level from the rear of the front seat		
	dimension measured laterally between the trimmed		back to the normal limiting interference of the		
	wheelhousings at floor level. For any vehicle not trim-		hatchback door on the vehicle zero "Y" plane.		
	med, measure the sheet metal.	٧3	HATCHBACK.		
W203	REAR OPENING WIDTH AT FLOOR. The minimum	۷۵	Measured in inches:		
	dimension measured laterally between the limiting in-				
	terferences of the rear opening at floor level.		$\frac{\text{L208} + \text{L209}}{2} \times \text{W4} \times \text{H197}$ $\frac{1728}{} = \text{ft.3}$		
W204	REAR OPENING WIDTH AT BELT. The minimum		= ft.3		
	dimension measured laterally between the limiting in-		1728 .		
	terferences of the rear opening at belt height or top of		Management in more		
	pick up box.		Measured in mm:		
W205	REAR OPENING WIDTH ABOVE BELT. The minimum		L208 + L209 x W4 x H197		
.,	dimension measured laterally between the limiting in- terferences of the rear opening above the belt height.		= m ³ (cubic meter)		

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