

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1994

Manufacturer TOYOTA MOTOR CORPORATION	Vehicle Line TOYOTA MR2	
Mailing Address Toyota Motor Sales, U.S.A., Inc. 19001 South Western Avenue P.O. Box 2991 Torrance, California 90509-2991	Issued Sep., 1993	Revised

Direct questions concerning these specifications to the manufacturer listed above.

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



Motor Vehicle Manufacturers Association
of the United States, Inc.

Forms Provided by Technical Affairs Division

MVMA Specifications

METRIC (U.S. Customary)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994 Issued Sep., 1993 Revised(•) _____

METRIC(U.S. Customary)

Vehicle Origin

Design & development(company)	Toyota Motor Corporation
Where built(country)	Japan
Authorized U.S. sales marketing representative	Toyota Motor Sales, U.S.A., Inc.

Vehicle Models

Model Description & Drive (FWD/RWD/4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type [†] (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
				kg (Front/Rear)	
2.0L turbo 5-sp. man., RWD		2dr-coupe w/T-bar roof SW20L-AJMZZA	(2/0)	45(15/30)	
2.2L 5-sp. man., RWD		2dr-coupe SW21L-ACMZKA	(2/0)	45(15/30)	
		2dr-coupe w/T-bar roof SW21L-AJMZKA	(2/0)	45(15/30)	
4-sp. auto., RWD		2dr-coupe SW21L-ACPZKA	(2/0)	45(15/30)	

*† On vehicles with 3rd seat

*FWD-Front Wheel Drive RWD-Rear Wheel Drive AWD-All Wheel Drive 4WD-Four Wheel Drive

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Power Teams

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

		A	B	C	D	
ENGINE	Engine Code	3S-GTE	5S-FE	5S-FE		
	Displacement Liters(in³)	1.998(122)	2.164(132)	2.164(132)		
	Induction system (FI, Carb, etc.)	FI w/turbo	FI	FI		
	Compression ratio	8.8	9.5	9.5		
	SAE Net at RPM	Power kW(bhp)	149(200)/6000	Fed. 101(135)/5400 Cal. 97(130)/5400	Fed. 101(135)/5400 Cal. 97(130)/5400	
		Torque N · m(lb.ft.)	271(200)/3200	197(145)/4400	197(145)/4400	
	Exhaust single, dual	Single	Single	Single		
TRANS	Transmission/ Transaxle	5-speed manual	5-speed manual	4-speed automatic		
	Effective Final Drive/ Axle Ratio(std. first)	4.285	4.176	3.034		

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METRIC (U.S. Customary)

Engine Description
Engine Code

3S-GTE, 1.998L, Turbo

5S-FE, 2.164L

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	Inline, mid, transverse, DOHC, pentroof	
Manufacturer	TOYOTA	
No. of cylinders	4	
Bore	86.0	87.0
Stroke	86.0	91.0
Bore spacing (C/L to C/L)	93.5-96.5-93.5	
Cylinder block material & mass kg(lbs.)(machined)	Cast iron 36.3	Gray cast iron, 42.6
Cylinder block deck height	216	
Cylinder block length	409.5	
Deck clearance (minimum) (above or below block)	0.1 below	0
Cylinder head material & mass kg(lbs.)	Aluminum alloy, 12.5	Aluminum alloy, 12.4
Cylinder head volume cm ³ (inches ³)	50.8	40.6
Cylinder liner material	N.A.	N.A.
Head gasket thickness (compressed)	1.25	1.20
Minimum combustion chamber total volume cm ³ (inches ³)	64.1	63.6
Cyl. no. system (front to rear)*	L. Bank	1, 2, 3, 4
	R. Bank	
Firing order	1-3-4-2	
Intake manifold material & mass kg(lbs.)**	Aluminum alloy, 4.1	Aluminum alloy, 4.4
Exhaust manifold material & mass kg(lbs.)**	Cast iron, 4.6	Cast iron, 6.9
Knock sensor (number & location)	1, Cylinder block	
Fuel required unleaded, diesel, etc.	Unleaded premium gasoline only	Unleaded gasoline
Fuel antiknock index (R + M) ÷ 2	91	87
Engine mounts	Quantity	4
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	No
Total dressed engine mass(wt) dry***	173	M/T=140, A/T=133

M/T= RH, LH...Hydroelastic
FR, RR...Elastomeric
A/T= RH...Hydroelastic
FR,RR,LH...Elastomeric

Engine - Pistons

Material & mass, g (weight, oz)-piston only	Aluminum alloy, 393	Aluminum alloy, 369
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Engine - Camshaft

Location	Cylinder head	
Material & mass kg (weight, lbs.)	Cast iron, 1.7	Alloy cast iron, Intake=2.0 Exhaust=1.6
Drive type	Chain / belt	Belt Gear
	Width / pitch	25.4/8 26.7/8.0 14/1.9 (module)

* 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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5S-FE, 2.164L

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	N.A.		
Valves	Number intake/exhaust	8/8	
	Head O.D. intake/exhaust	33.5/29.0	32/27

Engine - Connecting Rods

Material & mass kg..(weight,lbs.)*	Forged steel, 0.77	Forged steel, 0.70
Length(axes C/L to C/L)	138	

Engine - Crankshaft

Material & mass kg..(weight,lbs.)*		Forged steel, 19	Forged steel, 19
End thrust taken by bearing(no.)		No.3	
Length & number of main bearings		505, 5	
Seal(material,one,two piece design, etc.)	Front	Fluorine rubber, one piece	Fluorine rubber, one piece
	Rear	Fluorine rubber, one piece	Fluorine rubber, one piece

Engine - Lubrication System

Normal oil pressure kPa(psi) at engine rpm	275 at 2500	343 at 2500
Type oil intake(floating,stationary)	Stationary	
Oil filter system(full flow,part,other)	Full flow	
Capacity of c/case,less filter-refill-L(qt.)	3.6	3.8

Engine - Diesel Information

Diesel engine manufacturer		
Glow plug, current drain at 0°F		
Injector nozzle	Type	
	Opening pressure kPa(psi)	
Pre-chamber design		
Fuel in-jection pump	Manufacturer	
	Type	
Fuel injection pump drive(belt,chain,gear)		
Supplementary vacuum source(type)		
Fuel heater(yes/no)		
Water separator, description (std.,opt.)		
Turbo manufacturer		
Oil cooler-type(oil to engine coolant; oil to ambient air)		
Oil filter		

Engine - Intake System

Turbo charger-manufacturer	TOYOTA	
Super charger-manufacturer	-	
Intercooler	Air cooled, furnace brazed aluminum	

*Finished State

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5S-FE, 2.164L

Engine - Cooling System

Coolant recovery system(std., opt., n.a.)		Std.	
Coolant fill location(rad., bottle)		Independent filler at engine room	
Radiator cap relief valve pressure kPa(psi)		90	
Circulation thermostat	Type(choke, bypass)	Bypass	
	Starts to open at °C (°F)	82°	
Water pump	Type(centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	36 L/min.	32 L/min.
	Number of pumps	1	
	Drive(V-belt, other)	Timing belt	
	Bearing type	Prepacked ball bearing	
	Impeller material	Steel	Steel
	Housing material	Aluminum alloy	Aluminum alloy
By-pass recirculation type(inter., ext.)		External	
Cooling system capacity	With heater-L(qt.)	13.6	13.0
	With air conditioner-L(qt.)	-	13.0
	Opt.equipment specify-L(qt.)	-	N.A.
Water jackets full length of cyl.(yes,no)		Yes	
Water all around cylinder(yes,no)		No	
Water jackets open at head face(yes,no)		No	Yes
Radiator core	Std., A/C, HD	Std.	
	Type(cross-flow, etc.)	Cross-flow	
	Construction(fin & tube mechanical, braze, etc.)	Corrugated fin	Tube and corrugated fin braze
	Material, mass kg(wgt., lbs.)	Copper alloy, 5.3	Copper alloy, M/T=5.0, A/T=5.7
	Width	675	M/T=575, A/T=675
	Height	318	
	Thickness	32	
	Fins per inch	17	20
Radiator end tank material		Copper alloy	Brass
Fan	Std., elec., opt.	Electric	
	Number of blades & type (flex, solid, material)	4 solid	4, solid, plastics
	Number & location(front, rear of radiator)	1, Rear of radiator	
	Diameter & projected width	300, 47	M/T=280, 54, A/T=300, 55
	Ratio(fan to crankshaft rev.)	-	
	Fan cutout type	-	Temperature controlled
	Drive type(direct, remote)	-	Electric motor
	RPM at idle(elec.)	2100	M/T=2100, A/T=2050
	Motor rating(wattage/elec.)	80	M/T=80, A/T=120
	Motor switch(type & location/elec.)	Thermo switch at radiator	
	Switch point(temp./pressure/elec.)	90°C	
	Fan shroud(material)	Steel plate	

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Engine Description
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3S-GTE. 1.998L. Turbo

5S-FE. 2.164L

Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: Carburetor, fuel injection system, etc.		Fuel injection system	
Manufacturer		AISAN INDUSTRY	NIPPONDENSO
Carburetor no. of barrels		-	
Idle A/F mix.		Preset not adjustable	
Fuel injection	Point of injection(no.)	4	
	Constant, pulse, flow	Pulse flow	
	Control(electronic, mech.)	Electronic	
	System pressure kPa(psi)	250	284
Idle spd. -rpm (spec. neutral or drive and propane if used)	Manual (Approx)	800	750 Preset-not adjustable
	Automatic (Approx)	-	750 Preset-not adjustable
Intake manifold heat control(exhaust or water thermostatic or fixed)		N.A.	
Air cleaner type		Paper element type	
Fuel filter(type/location)		Paper element one piece type, at left side of engine compartment	
Fuel pump	Type(elec. or mech.)	Electric	
	Location(eng., tank)	In tank	
	Pressure range kPa(psi)	250	284
	Flow rate at regulated pressure L(gal)/hr @kPa(psi)	125/325	80/250

Fuel Tank

Capacity refill L(gallons)		54
Location(describe)		Underfloor, at front floor tunnel
Attachment		Bands and bolt
Material & Mass kg(weight lbs.)		Steel
Filler pipe	Location & material	Left quarter panel, Steel
	Connection to tank	Rubber hose
Fuel line(material)		Steel
Fuel hose(material)		Rubber
Return line(material)		Steel
Vapor line(material)		Steel
Extended range tank	Opt., n.a.	N.A.
	Capacity L(gallons)	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	N.A.
	Capacity L(gallons)	
	Location & material	
	Attachment	
	Selector switch or valve	
	Separate fill	

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Vehicle Emission Control

Exhaust Emission Control	Type(air injection, engine modifications, other)		SFI, EGR, O ₂ S, TWC		MFI, EGR, O ₂ S, TWC	
	Air injection	Pump or pulse	N.A.			
		Driven by	-			
		Air distribution (head, manifold, etc.)	-			
		Point of entry	-			
	Exhaust Gas Recirculation	Type(controlled flow, open orifice, other)	Controlled flow			
		Exhaust source	Cylinder head			
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold			
	Catalytic Converter	Type	TWC			
		Number of	2	Fed. 1	Cal. 2	
		Location(s)	Exhaust manifold under floor	Exhaust manifold	Exhaust manifold under floor	
		Volume L (in ³)	1.312, 0.5	1.312	1.312, 0.5	
		Substrate type	Monolith			
		Noble metal type	Pt : Rh			
Noble metal concentration(g/cm ³)		1.81 : 0.483 0.355 : 0.067	1.81 : 0.483	1.81 : 0.483 0.355 : 0.067		
Crankcase Emission Control	Type(ventilates to atmosphere, induction system, other)		Induction system sealed type		Induction system closed type	
	Energy source(manifold vacuum, carburetor, other)		Manifold vacuum			
	Discharges to(intake manifold, other)		Intake manifold			
	Air inlet(breather cap, other)		N.A.		Throttle body	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister			
		Carburetor	-			
	Vapor storage provision		Canister			
Electronic system	Closed loop(yes/no)		Yes			
	Open loop(yes/no)		No			

Engine - Exhaust System

Type(single, single with cross-over, dual, other)		Single	
Muffler no. & type (reverse flow, straight thru, separate resonator)Material & Mass kg(weight lbs.)		Stainless steel 9.5	Stainless steel 9.2
Resonator no. & type		N.A.	
Exhaust pipe	Branch o.d.,wall thickness	-	
	Main o.d., wall thickness	60.5/54.0, 1.2/1.2	54, 1.2
	Material & Mass kg (weight lbs.)	Stainless steel, 1.8	Stainless steel, Fed.=1.8 Cal.=1.2
Inter-mediate pipe	o.d. & wall thickness	N.A.	
	Material & Mass kg (weight lbs.)	N.A.	
Tail pipe	o.d. & wall thickness	60.5, 1.2	54, 1.2
	Material & Mass kg (weight lbs.)	Stainless steel, 2.2	Stainless steel, 2.1

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Transmissions/Transaxle(Std., Opt., N.A.)

Manual 4-speed(manufacturer/country)	N.A.
Manual 5-speed(manufacturer/country)	TOYOTA/Japan
Manual 6-speed(manufacturer/country)	
Automatic(manufacturer/country)	N.A.
Automatic overdrive(manufacturer/country)	N.A. AISIN A.W./Japan

Manual Transmission/Transaxle

Number of forward speeds		5	
Gear ratios	1st	3.230	3.285
	2nd	1.913	1.960
	3rd	1.258	1.322
	4th	0.918	1.028
	5th	0.731	0.820
	6th		
	Reverse	3.545	3.153
Synchronous meshing(specify gears)		All including reverse	
Shift lever location		Floor	
Trans.case mat'l. & mass kg(lbs)*		-	
Lubricant	Capacity L(pt.)	4.2, w/LSD 3.9	2.6
	Type recommended	API GL-3, GL-4 or GL-5	

Clutch(Manual Transmission)

Clutch manufacturer		AISIN SEIKI	
Clutch type(dry, wet;single, multiple disc)		Single, dry	
Linkage(hydraulic, cable, rod, lever, other)		Hydraulic	
Max.pedal effort(nom. spring load)N(lbs)	Depressed	135	130
	Released	135	130
Assist(spring, power/percent, nominal)		25%	N.A.
Type pressure plate springs		Diaphragm	
Total spring load(nominal) N (lbs)		7350	4900
Clutch facing	Facing mfr. & material coding	AISIN CHEMICAL	
	Facing material & construction	Semi-mold	
	Rivets per facing	16	
	Outside x inside dia.(nominal)	236 x 150	224 x 150
	Total eff.area cm ² (in. ²)	260	217
	Thickness(pressure plate side/fly wheel side)	3.5/3.5	
	Rivet depth(pressure plate side/fly wheel side)	1.6/1.6	
	Engagement cushion method	Wave spring segments	
Release bearing type & method lub.		Self-centering ball bearing with permanent lubrication	
Torsional damping method,springs,hysteresis		Multi-stage torsional springs with friction washer	Single stage

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

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Engine Description
Engine Code

5S-FE, 2.164L

Automatic Transmission/Transaxle

Trade Name		A241E
Type and special features(describe)		2-mode 4-speed, electronically controlled planetary gear train with, lock-up clutch torque converter
Shift mechanics		
Gear selector	Location(column, floor, other)	Floor
	Ltr./No. designation(e.g. PRND21)	PRND2L
	Shift interlock(yes, no, describe)	Yes
Gear ratios	1st	3.643
	2nd	2.008
	3rd	1.296
	4th	0.892
	Reverse	2.977
	Final drive ratio	3.034
Max.upshift vehicle speed-drive range km/h(mph)		141(3→4)
Max.upshift engine speed RPM		
Max. kickdown speed-drive range km/h(mph)		135(4→3)
Min. overdrive speed km/h(mph)		21
Torque converter	Type	
	Torus design	
	Number of elements	3-elements, 1st stage, 2-phases
	Max. ratio at stall	2.1
	Type of cooling(air,liquid)	Liquid
	Nominal diameter	241
	Capacity factor "k"	N.A.
Pump type		
Lubricant	Capacity refill L(pt.)	3.3(Dry fill 8.0)
	Type recommended	ATF, "DEXRON II"
Oil cooler(std.,opt.,N.A.,internal,external,air,liquid)		In radiator, liquid
Transmission mass kg(lbs) & case material**		78.0, Aluminum die cast

All Wheel/4 Wheel Drive

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

* Input speed + $\sqrt{\text{torque}}$

**Dry weight including torque converter. If other, specify.

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Engine Code

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5-speed manual	5-speed manual 4-speed automatic

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

Effective final drive ratio(or overall top gear ratio)			
Transfer ratio and method(chain, gear, etc.)			
Front drive unit	Ring gear o.d.		
	No. of teeth	Pinion	
		Ring gear	

Front Drive Unit

Description(integral to trans., etc.)		
Limited slip differential(type)		
Drive pinion	Type	
	Offset	
No.of differential pinions		
Pinion/differential	Adjustment(shim, etc.)	
	Bearing adjustment	
Driving wheel bearing(type)		
Lubricant	Capacity L(pt.)	
	Type recommended	

Axle Shafts – Front Wheel Drive

Manufacturer and number used			TOYOTA. 2			
Type(straight, solid bar, tubular, etc.)		Left	Solid bar			
		Right	Solid bar			
Outer diam. x length* x wall thickness	Manual transaxle	Left	28.5 x 323.7	23.5 x 340.0	—	
		Right	28.5 x 323.7	26.0 x 608.0	—	
	Automatic transaxle	Left	—		23.5 x 340.0	
		Right	—		26.0 x 608.0	
	Optional transaxle	Left	N.A.			
		Right	N.A.			
Slip yoke	Type		N.A.			
	Number of teeth		—			
	Spline o.d.		—			
Universal joints	Make and mfg. no.		Inner	TOYOTA 43409-17010	TOYOTA 43408-20010	
			Outer	TOYOTA 43405-17040(17050)	TOYOTA 43405-20030(20040)	
	Number used		4			
	Type, size, plunge		Inner	Cross groove plunge	Tripod plunge	
			Outer	Rzeppa fixed		
	Attach(u-bolt, clamp, etc)		Snap ring			
	Bearing	Type(plain, anti-friction)	Ball bearing	—		
		Lubrication (fitting, prepack)	Prepacked	—		
Drive taken through(torque tube, arms or springs)			N.A.			
Torque taken through(torque tube, arms or springs)			N.A.			

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

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5S-FE, 2.164L

5-speed manual

5-speed manual

4-speed, automatic

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

Axle ratio(or overall top gear ratio)		-	-
Ring gear o.d.		-	-
No. of teeth	Pinion	-	-
	Ring gear	-	-

Rear Axle Unit

Description		
Limited slip differential(type)		
Drive pinion	Type	
	Offset	-
No. of differential pinions		
Pinion/differential	Adjustment(shim, etc.)	-
	Bearing adjustment	-
Driving wheel bearing(type)		Double row angular contact ball bearing
Lubricant	Capacity L(pt.)	
	Type recommended	-

Propeller Shaft - Rear Wheel Drive

Manufacturer Type(straight tube,tube-in-tube, internal-external damper, etc.)			
Outer diam.x length"x wall thickness	Manual 4-speed transmission		
	Manual 5-speed transmission		
	Manual 6-speed transmission		
	Overdrive		
	Automatic transmission		
Inter- mediate bearing	Type(plain, anti-friction)		
	Lubrication(fitting, prepack)		
Slip yoke	Type		
	Number of teeth		
	Spline o.d.		
Universal joints	Make and mfg. no.	Front	
		Rear	
	Number used		
	Type (ball and trunnion, cross)		
	Rear attach(u-bolt, clamp, etc)		
	Bearing	Type(plain, anti-friction)	
		Lubrication (fitting, prepack)	
Drive taken through(torque tube, arms or springs)			
Torque taken through(torque tube, arms or springs)			

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

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Model Code/Description And/Or
Engine Code/Description

3S-GTE, 1.998L, Turbo	5S-FE, 2.164L	
5-speed manual	5-speed manual	4-speed automatic

Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not avail.	N.A.
	Manual/automatic control	-
	Type(air/hydraulic)	-
	Primary/assist spring	-
	Rear only/4 wheel leveling	-
	Single/dual rate spring	-
	Single/dual ride heights	-
	Provision for jacking	-
Shock absorber damping controls	Standard/option/not avail.	N.A.
	Manual/automatic control	-
	Number of damping rates	-
	Type of actuation(manual/electric motor/air, etc.)	-
	S e n s o r s	Lateral acceleration
		Deceleration
		Acceleration
		Road surface
Shock absorber (front & rear)	Type	Tube, Double acting
	Make	TOYOTA
	Piston diameter	32/32
	Rod diameter	22/22

Suspension - Front

Type and description		MacPherson strut	
Travel	Full jounce(define load condition)	74	
	Full rebound	84	
Spring	Type(coil,leaf,other & material)	Coil, SUP7NV	
	Insulators(type & material)	Top only, Rubber	
	Size(Leaf:length & width;Coil:design height & i.d.;Bar:length & diameter)	252.1, 157.5	259.1, 157.9
	Spring rate[N/mm (lb./in.)]	22.5	19.6
	Rate at wheel[N/mm (lb./in.)]	30.4	27.4
Stabilizer	Type(link, linkless, frameless)	Link	
	Material & O.D. bar/tube, wall thickness	Svd48-M, 18.4	Svd48-M, 17.5

Suspension - Rear

Type and description		MacPherson strut	
Travel	Full jounce(define load condition)	76	
	Full rebound	81	
Spring	Type(coil, leaf, other & material)	Coil, SUP7	
	Size(Leaf:length & width;Coil:design height & i.d.;Bar:lengt & diameter)	309.7, 97.5	315.2, 97.9
	Spring rate[N/mm (lb./in.)]	35.3	31.4
	Rate at wheel[N/mm (lb./in.)]	45.1	41.2
	Insulators(type & material)	Top only, Rubber	
	If leaf	No of leaves	-
		Shackle(comp.or tens.)	-
Stabilizer	Type(link, linkless, frameless)	Link	
	Material & O.D. bar/tube,wall thickness	Svd48-M, 19.5	Svd48-M 19.0
Track bar(type)		N.A.	

MVMA Specifications

Vehicle Line **TOYOTA MR2**

Model Year **1994** Issued **Sep., 1993** Revised(•)

METRIC(U.S. Customary)

Model Code/Description And/Or
Engine Code/Description

3S-GTE, 1.998L, Turbo

5S-FE, 2.164L

Brakes - Service

Description			Four wheel hydraulic actuation with front and rear circuits		
Manufacturer and brake type(std.,opt.,n.a.)		Front(disc or drum)	AISIN, Std., Disc		
		Rear(disc or drum)	AKEBONO, Std., Disc		
Valving type(proportion, delay, metering, other)			P & B valve		
Power brake(std., opt., n.a.)			Std.		
Booster type(remote, integral, vac., hyd., etc.)			Integral vacuum		
Vacuum	Source(inline, pump, etc.)		In line		
	Reservoir(volume in. ³)		N.A.		
	Pump-type(elec.gear driven,belt driven)		N.A.		
Traction assist	Operational speed range		N.A.		
	Type(engine or brake intervention)		N.A.		
Anti-lock device	Front/rear(std., opt., n.a.)		Opt./opt.		
	Manufacturer		NIPPONDENSO		
	Type(electronic, mech.)		Electronic		
	Number sensors or circuits		4		
	Number anti-lock hydraulic circuits		3		
	Integral or add-on system		Add-on		
	Yaw control(yes, no)		Yes		
	Hydraulic power source (elec., vac. mtr., pwr. strg.)		Electric motor		
Effective area cm ² (in. ²) *			200/142	168/142	
Gross Lining area cm ² (in. ²) **(F/R)			200/142	168/142	
Swept area cm ² (in. ²) *** (F/R)			1396/1294	1190/1199	
Rotor	Outer working diameter	F/R	275/281	258/263	
	Inner working diameter	F/R	165/184	162/169	
	Thickness	F/R	30/22	25/16	
	Material & type(vented/solid)	F/R	Cast iron ventilated/Cast iron ventilated		
Drum	Diameter & width	F/R	N.A.		
	Type and material	F/R	N.A.		
Wheel cylinder bore			36.51 x 2/42.86	51.10/41.30	
Master cylinder	Bore/stroke	F/R	23.8/15, 23.8/12	22.2/15, 22.2/12	
Pedal arc ratio			3.7		
Line pressure at 445 N(100 lb.)pedal load[kPa(psi)]			10900	10370	
Lining clearance		F/R	Self adjusting/self adjusting		
Brake lining	Front wheel	Bonded or riveted(rivets/seg.)		Bonded	
		Rivet size		N.A.	
		Manufacturer		AISIN	NISSHINBO
		Lining code*****		PC519-FF	PN524-FE
		Material		Molded resin, Non-asbestos	
		****	Primary or out-board	117.0 x 50.0 x 10.0	102.7 x 43.5 x 10.0
		Size	Secondary or in-board	117.0 x 50.0 x 10.0	102.7 x 43.5 x 10.0
		Shoe thickness(no lining)		5.5	5.0
	Rear wheel	Bonded or riveted(rivets/seg.)		Bonded	
		Manufacturer		NISSHINBO	
		Lining code*****		PN531-FG	PN503-FF
		Material		Molded resin, Non-asbestos	
		****	Primary or out-board	82.0 x 44.5 x 10.00	
		Size	Secondary or in-board	94.0 x 42.9 x 10.00	
		Shoe thickness(no lining)		Out-board=5.5 in-board=6.0	

*Excludes rivet holes, grooves, chamfers, 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 width x thickness. *****Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994

Issued Sep., 1993

Revised(•) _____

METRIC(U.S. Customary)

Model Code/Description And/Or
Engine Code/Description

3S-GTE, 1.998L, Turbo

5S-FE, 2.164L

Tires And Wheels(Standard)

Tires	Size(service description)		195/55R15 83V, 195/55R15 84V//225/50R15 91V
	Type(bias, radial, steel, nylon, etc.)		Radial, Steel
	Inflation pressure(cold) for recommended max. vehicle load	Front kPa(psi)	200
		Rear kPa(psi)	230
	Rev./mile-at 70 km/h(45 mph)		880
Wheels	Type & material		Aluminum
	Rim(size & flange type)		15 x 6JJ/15 x 7JJ
	Wheel offset		45/45
	Attachment	Type(bolt or stud & nut)	Stud & Nut
		Circle diameter	114
		Number & size	5, M12 x 1.5
Spare	Tire and wheel		T135/70D16, 16 x 4T
	Storage position & location (describe)		Tilted in front trunk

Tires And Wheels(Optional)

Tire size(service description)		195/55R15 83V, 195/55R15 84V//225/50R15 91V
Type(bias, radial, steel, nylon, etc.)		Radial, Steel
Wheel(type & material)		Aluminum
Rim(size, flange type and offset)		15 x 6JJ/15 x 7JJ
Tire size(service description)		-
Type(bias, radial, steel, nylon, etc.)		-
Wheel(type & material)		-
Rim(size, flange type and offset)		-
Tire size(service description)		-
Type(bias, radial, steel, nylon, etc.)		-
Wheel(type & material)		-
Rim(size, flange type and offset)		-
Tire size(service description)		-
Type(bias, radial, steel, nylon, etc.)		-
Wheel(type & material)		-
Rim(size, flange type and offset)		-
Spare tire and wheel size		-
(If configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		T135/70D16, 16 x 4T

Brakes - Parking

Type of control		Hand operated
Location of control		Floor
Operates on		Rear service brakes
If separate from service brakes	Type(internal or external)	N.A.
	Drum diameter	N.A.
	Lining size(length x width x thickness)	N.A.

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994

Issued Sep., 1993

Revised()

METRIC(U.S. Customary)

Model Code/Description And/Or
Engine Code/Description

Standard=Manual

Option=Power

Steering

Manual(std., opt., n.a.)			Std.	-
Power(std., opt., n.a.)			-	Opt.
Speed-sensitive(std., opt., n.a.)			Std.	
4-wheel steering(std., opt., n.a.)			N.A.	
Adjustable steering wheel/column (tilt, telescope, other)	Type		Tilt	
	Manufacturer		TOYOTA	
	(std., opt., n.a.)		Std.	
Wheel diameter** (W9)SAE J1100	Manual		370	-
	Power		-	370
Turning diameter m(ft.)	Outside front	Wall to wall(l. & r.)	10.4	
		Curb to curb(l. & r.)	9.8	
	Inside rear	Wall to wall(l. & r.)	5.2	
		Curb to curb(l. & r.)	5.5	
Scrub Radius*			-2mm	
Manual	Gear	Type	Rack and pinion	-
		Manufacturer		KOYO SEIKO
		Ratios	Gear	∞
			Overall	20.6
	No. wheel turns(stop to stop)		3.7	
Power	Type(coaxial, elec., hyd., etc.)		-	Integral, Hydraulic
	Manufacturer			KOYO SEIKO
	Gear	Type		Rack and pinion
		Ratios	Gear	∞
			Overall	17.6
			Pump(drive)	
	No. wheel turns(stop to stop)			3.1
	Linkage	Type		Tie rod directly attached to rack end
Location(front or rear of wheels, other)		Front of wheels		
Tie rods(one or two)		2		
Steering axis	Inclination at camber(deg.)		13°50'	
	Bearings (type)	Upper	Ball bearing	
		Lower	Ball joint	
		Thrust	N.A.	
		Steering spindle/knuckle & joint type		MacPherson strut & ball joint

*The horizontal distance in the front elevation between wheel centerline and kingpin(ball joint) axis at ground

**See Page 23.

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994

Issued Sep., 1993

Revised(·)

METRIC(U.S. Customary)

Model Code/Description And/Or
Engine Code/Description

SW20L

SW21L

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster(deg.)	$3^{\circ}15' \pm 45'$
		Camber(deg.)	$-1^{\circ}00' \pm 45'$
		Toe-in outside track-mm(in.)	1 ± 2
	Service reset*	Caster(deg.)	$3^{\circ}15' \pm 45'$, Pre-set
		Camber(deg.)	$-1^{\circ}00' \pm 45'$, Pre-set
		Toe-in-mm(in.)	1 ± 2 adjustable
	Periodic M.V. inspection	Caster(deg.)	N.A.
		Camber(deg.)	N.A.
		Toe-in-mm(in.)	N.A.
Rear wheel at curb mass (wt.)	Service checking	Camber(deg.)	$-1^{\circ}35' \pm 45'$
		Toe-in outside track-mm(in.)	4 ± 2
	Service reset*	Camber(deg.)	$-1^{\circ}35' \pm 45'$, Pre-set
		Toe-in-mm(in.)	4 ± 1 adjustable
	Periodic M.V. inspection	Camber(deg.)	N.A.
		Toe-in-mm(in.)	N.A.

*Indicates pre-set, adjustable, trend set or other.

Electrical - Instruments and Equipment

Speedometer	Type(analog,digital, std., opt.)	Analog	
	Trip odometer(std., opt., n.a.)	Std.	
Head-up display	Standard, optional, not available		N.A.
	Type	Secondary, opto-electronic	
	Speedometer	Digital	
	Status/warning indicators	Turn signals, high beam, low fuel, check gauges	
	Brightness control	Day/night mode, adjustable	
EGR maintenance indicator		No	
Charge indicator	Type	Tell-tale lamp	Voltmeter
	Warning device(light, audible)	Light	Tell-tale lamp
Temperature indicator	Type	Electric gauge	
	Warning device(light, audible)	N.A.	
Oil pressure indicator	Type	Tell-tale lamp	
	Warning device(light, audible)	Light	
Fuel indicator	Type	Electric gauge	
	Warning device(light, audible)	Tell-tale lamp	
Wind-shield wiper	Type(standard)	Electric 2 speed with intermittent and mist operation	
	Type(optional)	Electric 2 speed with adjustable intermittent and mist operation	
	Blade length	LH=500mm, RH=457mm	
	Swept area cm ² (in. ²)	6607.3	
Wind-shield washer	Type(standard)	Electric motor	
	Type(optional)	-	
	Fluid level indicator (light, audible)	No warning	
Rear window wiper, wiper/washer (std., opt., n.a.)		N.A.	
Horn	Type	Electric, Vibration	
	Number used	2	
Other			

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994 Issued Sep.. 1993 Revised(·) _____

METRIC(U.S. Customary)

Engine Code/Description

SW20L

SW21L

Electrical – Supply System

Battery	Manufacturer	FURUKAWA, MATSUSHITA, NIHON-DENCHI, SHIN-KOBE, YUASA	
	Model, std.,(opt.)	55D23L	55D23L(75D26L)
	Voltage	12	
	Amps at 0°F cold crank	356	356(490)
	Minutes-reserve capacity	99	99(123)
	Amps/hrs.-20hr. rate	60	60(65)
	Location	Center rear of front luggage room	
Alternator	Manufacturer	NIPPONDENSO	
	Rating(idle/max. rpm)	12V-70A	M/T=12V-70A A/T=12V-80A
	Ratio(alt.crank/rev.)	1: 2.26	1: 2.55
	Output at idle(rpm, park)	-	
	Optional(type & rating)	12V-90A	
Regulator	Type	IC regulator	

Electrical – Starting System

Motor	Manufacturer	NIPPONDENSO	
	Current drain ____ °C (°F)	-	
	Power rating kw(hp)	1.4kw	1.4kw(1.6kw)
Motor drive	Engagement type	Solenoid shift	
	Pinion engages from(front, rear)	Rear	

Electrical – Ignition System

Type	Electronic(std., opt., n.a.)	Std.	
	Other(specify)	-	
Coil	Manufacturer	NIPPONDENSO	
	Model	-	
	Current	Engine stopped-A	0
		Engine idling-A	0.8
Spark plug	Manufacturer	NIPPONDENSO NGK	
		Model	PK20R8, BKR6EP8, PK16R8, BKR5EP8
	Thread(mm)	14	
		Tightening torque N·m(lb.-ft.)	17.7
	Gap	0.8	1.1
	Number per cylinder	1	
Distributor	Manufacturer	NIPPONDENSO	
	Model	N.A.	

Electrical – Suppression

Locations & type	Flame sprayed distributor rotor High resistance high tension cord High resistance spark plug
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MVMA Specifications

Vehicle Line TOYOTA MR2
 Model Year 1994 Issued Sep., 1993 Revised(•) _____

METRIC(U.S. Customary)

Model Code/Description

All models

Body

Structure	Unitized body structure
Bumper system front-rear	Front= Rear= Urethane fascia, energy absorber form and reinforcement
Anti-corrosion treatment	Full dip pretreatment Cathodic ED

Body - Miscellaneous Information

Type of finish(lacquer, enamel, other)		Acrylic or alkyd enamel
Hood	Material & mass	Steel, 14kg
	Hinge location(front, rear)	Rear
	Type(counterbalance, prop)	Prop
	Release control(internal, external)	Internal
Trunk lid	Material & mass	Steel, 10kg
	Type(counterbalance, other)	Counter balance
	Internal release control(elec., mech., n.a.)	Mechanical
Hatch-back lid	Material & mass	—
	Type(counterbalance, other)	—
	Internal release control(elec., mech., n.a.)	—
Tailgate	Material & mass	—
	Type(drop, lift, door)	—
	Internal release control(elec., mech., n.a.)	—
Vent window control(crank, friction, pivot, power)	Front	—
	Rear	—
Window regulator type (cable, tape, flex drive, etc.)	Front	Arm & sector gear
	Rear	—
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Separate, panel frame + spring +foam pad
	Rear	—
	3rd seat	—
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Separate, pipe frame + spring +foam pad
	Rear	—
	3rd seat	—

Frame

Type and description(separate frame, unitized frame, partially-unitized frame)	Unitized frame
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MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994 Issued Sep., 1993 Revised()

METRIC(U.S. Customary)

Model Code/Description

All models

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Std.=Lap & shoulder belt with ELR		Std.=Lap & shoulder belt with ELR
		Second seat	-	-	-
	Standard/optional	Third seat	-	-	-
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt)	First seat	-	-	Std.=Airbag
		Second seat	-	-	-
	Standard/optional	Third seat	-	-	-

Glass	SAE Ref.No.	
Windshield glass exposed surface area cm ² (in. ²)	S1	8520
Side glass exposed surface area cm ² (in. ²) -total 2-sides	S2	6270
Backlight glass exposed surface area cm ² (in. ²)	S3	2040
Total glass exposed surface area cm ² (in. ²)	S4	16830
Windshield glass(type/thickness)		Curved laminated, t=5.3
Side glass(type/thickness)		Curved tempered, Door:t=5.0, QTR:t=3.1
Backlight glass(type/thickness)		Curved tempered, t=3.5
Tinted(yes/no, location)		No
Solar control(yes/no, coated/batched, location)		Yes, batched, windshield, side and back light glasses

Headlamps

Description(sealed beam, halogen, replaceable bulb, etc.)	Description-sealed beam, halogen
Shape	Rectangular
Lo-beam type(2A1, 2B1, 2C1, etc.)	2B1 type
Quantity	2
Hi-beam type(1A1, 2A1, 1C1, 2C1, etc.)	-
Quantity	-

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994

Issued Sep., 1993

Revised(·)

METRIC(U.S. Customary)

Engine Code/Description

SW20L

SW21L

Climate Control System

Air conditioning(std., opt., man., auto.)

Std., manual

Condenser	Type	Corrugated fin and serpentine tube type	
	Eff. face area(sq. mm.)	212921.6mm ² (W x H = 646 x 329.6)	
	Fins per inch	Pitch= 1.7mm	
Evaporator	Type	Drawn cup type	
	Eff. face area(sq. mm.)	44310mm ² (W x H = 211 x 210)	
	Fins per inch	Pitch= 4.0mm	
Heater core	Material	Copper-Brass	
	Eff. face area(sq. mm.)	22480mm ² (W x H = 160 x 140.5)	
	Fins per inch	Pitch= 2.0mm	
Compressor	Type	10P13	
	Displacement(cc.)	134cc	
	Manufacturer	NIPPONDENSO	
	A/C pulley ratio	cl/comp=140/150=0.93	130/150=0.87
Accumulator	Type	-	
	Height(mm.)	-	
	Diameter(mm.)	-	
Receiver	Type	Normal	
	Height(mm.)	187	
	Diameter(mm.)	58	
Refrigerant control(CCOT, TVS, etc.)		-	
Heater water valve(yes/no)		Yes	
Refrigerant(R-12, R-134a, etc.)		R-134a	
Charge level(lbs. -oz.)		730 ± 20(g)	
Cold engine lockout switch(yes/no)		-	
Wide open throttle cutout switch(yes/no)		-	

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994 Issued Sep.. 1993 Revised(•) _____

METRIC(U.S. Customary)

Model Code/Description

SW20L

SW21L

Convenience Equipment(standard, optional, n.a.)

Clock(digital, analog)		Std.. digital	
Compass/thermometer		N.A.	
Console(floor, overhead)			
Defroster, electric windshield		No	
Defroster, electric backlight		Electric, backlight	
Electronic	Diagnostic monitor(integrated, individual)	N.A.	
	Instrument cluster(list instruments)	Speedo, trip, tacho, fuel, watertemp, turbo-pressure	Speedo, trip, tacho, fuel, watertemp, voltmeter
	Keyless entry	N.A.	
	Tripminder(avg.spd.,fuel)	N.A.	
	Voice alert(list items)		
	Other		
Fuel door lock(remote, key, electric)		Remote	
Lamps	Auto head on/off delay, dimming	N.A.	
	Cornering	N.A.	
	Courtesy(map, reading)	Std.. roof	
	Door lock, ignition	-	
	Engine compartment	-	
	Fog	Opt.	N.A.
	Glove compartment	-	
	Trunk	Std.. rr luggage	
	Illuminated entry system (list lamps, activation)		
	Other	Opt.. door trim=door lamp	
Mirrors	Day/night(auto, man.)	Auto	
	L.H.(remote, power, heated)	Power	
	R.H.(convex, remote, power, heated)	Convex power	
	Visor vanity(RH/LH, illuminated)		
Navigation system(describe)		N.A.	
Parking brake-auto release(warning light)		No auto release	

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994

Issued Sep.. 1993

Revised(·)

METRIC(U.S. Customary)

Model Code/Description

All models

Convenience Equipment(standard,optional,n.a.)

Power equipment	Deck lid(release, pull down)		-
	Door locks(manual, automatic, describe system)		Opt. Manual
	Seats	2-4-6 way, etc.	N.A.
		Reclining(R.H., L.H.)	Std., LH and RH
		Memory(R.H.,L.H., preset recline)	N.A.
		Support(lumbar, hip, thigh, etc.)	
		Heated(R.H., L.H., other)	
	Side windows		Opt.
	Vent windows		None
	Rear windows		None
Radio systems	Antenna(location, whip, w/shield, power)		Std.=Power, whip at RH quarter Opt.=Power, whip at RH quarter +front window glass
	Standard	AM,FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	Std.=AM/FM ETR, Cassette
	Optional		Opt.1=AM/FM ETR, Cassette accoustic flavor, theft deterrent Opt.2=Opt.1 + CD
	Speaker(number, location)		Std.=6, front doors + quarter trims +mirror brakets Opt.=8, std. + rear of seats
	Roof: open air or fixed(flip-up, sliding, "T")		SW20: std. detachable. SW21: std or opt, detachable
Speed control device		Opt.	
Speed warning device(light, buzzer, etc.)		N.A.	
Tachometer(rpm)		Std.	
Telephone system(describe)			
Theft deterrent system		Opt.	

Trailer Towing

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

* Class I - 2,000 lbs. Class II - 3,500 lbs. Class III - 5,000 lbs.

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994 Issued Sep., 1993 Revised(-)

METRIC(U.S.Customary)

Vehicle Dimensions See Key Sheets for definitions

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

Model Code/Description

SAE
Ref.
No.

All models

Width

Tread(front)	W101	1470
Tread(rear)	W102	1450
Vehicle width	W103	1700
Body width at Sg RP(front)	W117	1695
Vehicle width(front doors open)	W120	3685
Vehicle width(rear doors open)	W121	-
Tumble-home(degrees)	W122	30.0°
Outside mirror width	W410	1914

Length

Wheelbase	L101	2400
Vehicle length	L103	4170
Overhang(front)	L104	865
Overhang(rear)	L105	905
Upper structure length	L123	1656
Rear wheel C/L "X" coordinate	L127	2400

Height**

Passenger distribution(front/rear)	PD1,2,3	..
Trunk/cargo load		..
Vehicle height	H101	1235
Cowl point to ground	H114	800
Deck point to ground	H138	920
Rocker panel-front to ground	H112	150
Rocker panel-rear to ground	H111	165
Windshield slope angle(degrees)	H122	60.0°
Backlight slope angle(degrees)	H121	15.0°

Ground Clearance**

Front bumper to ground	H102	400/230
Rear bumper to ground	H104	350
Bumper to ground front at curb mass(wt.)	H103	390/220
Bumper to ground rear at curb mass(wt.)	H105	340
Angle of approach(degrees)	H106	13°
Angle of departure(degrees)	H107	17°
Ramp breakover angle(degrees)	H147	13°
Axle differential to ground(front/rear)	H153	160(Rear)
Min.running ground clearance	H156	130
Location of min. run. grd. clear.		Exhaust pipe heat insulator

****All Vehicle Height And Ground Clearance Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.**

EPA Loaded Vehicle Weight is the Base Vehicle Weight Plus All Coolant And Fluids Necessary For Operation Plus 100% Of The Fuel Capacity, Plus The Weight Of All Options And Accessories Which Weigh Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994 Issued Sep.. 1993 Revised()

METRIC(U.S.Customary)

Vehicle Dimensions See Key Sheets for definitions

Model Code/Description

SAE
Ref.
No.

All models

Front Compartment

SgRP front, "X" coordinate	L31	1353
Effective head room	H61	Standard roof=953.4, Standard roof w/op.Sun roof=935.1, T-bar Roof=934.4
Max. eff. leg room(accelerator)	L34	1102.1
SgRP to heel point	H30	195
SgRP to heel point	L53	921.1
Back angle(degrees)	L40	21°
Hip angle(degrees)	L42	94.5°
Knee angle(degrees)	L44	136°
Foot angle(degrees)	L46	87°
Design H-point front travel	L17	208.4
Normal driving & riding seat track trvl.	L23	208.4
Shoulder room	W3	1371
Hip room	W5	1326
***Upper body opening to ground	H50	327
Steering wheel maximum diameter*	W9	370
Steering wheel angle(degrees)	H18	21°
Accel. heel pt. to steer. whl. cntr	L11	560
Accel. heel pt. to steer. whl. cntr	H17	413
Undepressed floor covering thickness	H67	12

Rear Compartment

Front Compartment Interior Dimensions Are Measured With The Seating Reference Point(SgRP) _____ mm Forward And _____ mm Upward of Rearmost Position.

SgRP point couple distance	L50	
Effective head room	H63	
Min. effective leg room	L51	
SgRP(second to heel)	H31	
Knee clearance	L48	
Shoulder room	W4	
Hip room	W6	
***Upper body opening to ground	H51	
Back angle(degrees)	L41	
Hip angle(degrees)	L43	
Knee angle(degrees)	L45	
Foot angle(degrees)	L47	
Depressed floor covering thickness	H73	

Luggage Compartment

Usable luggage capacity L(cu. ft.)	V1	189(Fr.=34, Rr.=155)
***Liftover height	H195	Fr.=635, Rr.=790

Interior Volumes(EPA Classification)

Vehicle class	Two seater
Interior volume index including trunk/cargo(cu. ft.)**	-
Trunk/cargo index(cu. ft.)	-

*See page 14.

**See definition page 33.

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

***EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994

Issued Sep., 1993

Revised()

METRIC(U.S.Customary)

Vehicle Dimensions See Key Sheets for definitions

Model Code/Description

SAE
Ref.
No.

Station Wagon/MPV*
-Third Seat

Seat facing direction	SD1	
SgRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
SgRP to heel point	H87	
Knee clearance	L87	
Back angle(degrees)	L88	
Hip angle(degrees)	L89	
Knee angle(degrees)	L90	
Foot angle(degrees)	L91	

Station Wagon/MPV* - 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 m ³ (ft. ³)	V2	
Hidden cargo volume index m ³ (ft. ³)	V4	
Cargo volume index-rear of 2-seat	V10	
Cargo volume index*	V6	
Cargo width at floor*	W500	
Maximum cargo height*	H505	

Hatchback - Cargo Space

Cargo length at front seatback height	L208	
Cargo length at floor(front)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor(second)	L211	
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index m ³ (ft. ³)	V3	
Hidden cargo volume index m ³ (ft. ³)	V4	
Cargo volume index-rear of 2-seat	V11	

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

*MPV-Multipurpose Vehicle

--EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications

Vehicle Line TOYOTA MR2

Model Year 1994

Issued Sep., 1993

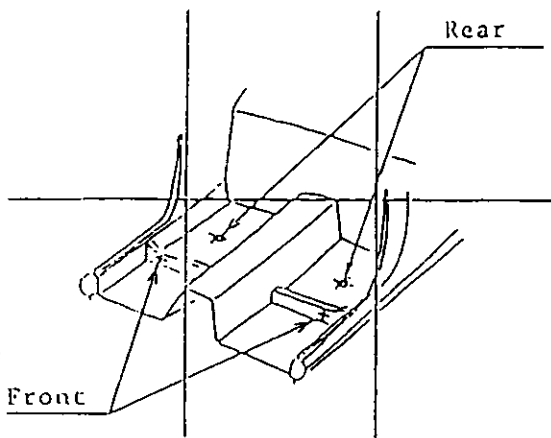
Revised(•) _____

METRIC(U.S. Customary)

Model Code/
Description

All models

Vehicle Fiducial Marks

Fiducial Mark Number		Define Coordinate Location
Front(1)		
Front(2)	Center of seat track outer installation hole in front floor cross-member	
Rear(1)		
Rear(2)	Center of hole for ED in front floor	
Note: Provide 3 of 4 Fiducial Mark Locations		
Front	W21**	W5 + 86.4
	L54**	L19 + 78.4
	H81**	H10 + 43.2
	... H161**	230
	... H163**	220
Rear	W22**	W4 + 55.0
	L55**	L23 + 50.0
	H82**	H9 + 89.2
	... H162**	175
	... H164**	165

*Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks.

**Reference - SAE Recommended Practice J1100-Motor Vehicle Dimensions.

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

...EPA Loaded Vehicle Weight, Loading Conditions

METRIC(U.S. Customary)

Model Year	1994
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Issued Sep.. 1993

Revised(·)

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

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

A	=1000	I	=2000	Q	=3000	Y	=4000
B	=1125	J	=2125	R	=3125	Z	=4250
C	=1250	K	=2250	S	=3250	A A	=4500
D	=1375	L	=2375	T	=3375	B B	=4750
E	=1500	M	=2500	U	=3500	C C	=5000
F	=1625	N	=2625	V	=3625	D D	=5250
G	=1750	O	=2750	W	=3750	E E	=5500
H	=1875	P	=2875	X	=3875	F F	=5750

***Shipping Mass(weight)=Curb Weight Less: 35kg

METRIC(U.S. Customary)

Model Year 1994

Issued Sep., 1993

Revised(·)

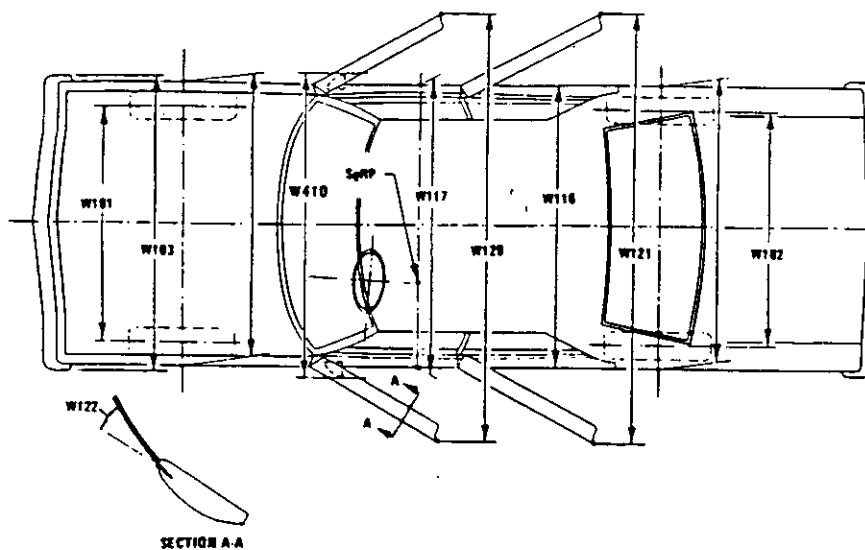
*Also see Engine-General Section for dressed engine mass(weight).

MVMA Specifications

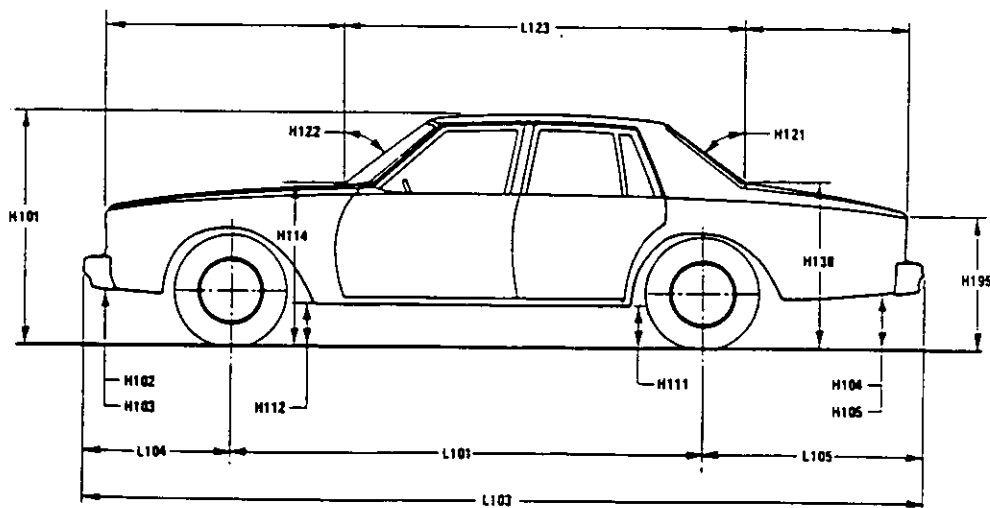
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions – Key Sheet

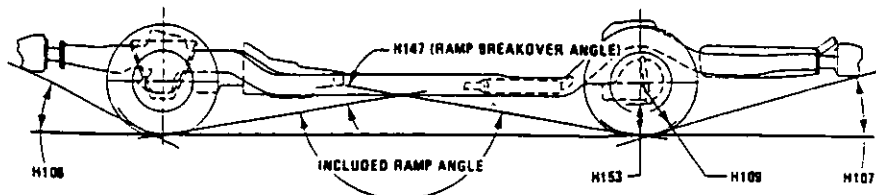
Exterior Width



Exterior Length & Height



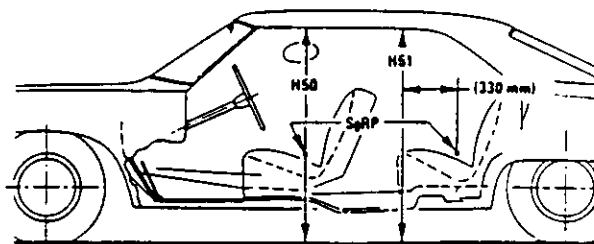
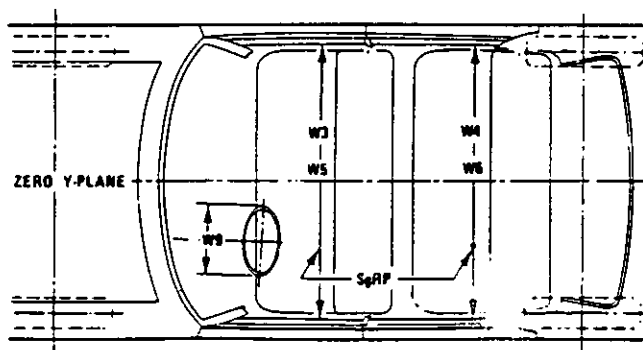
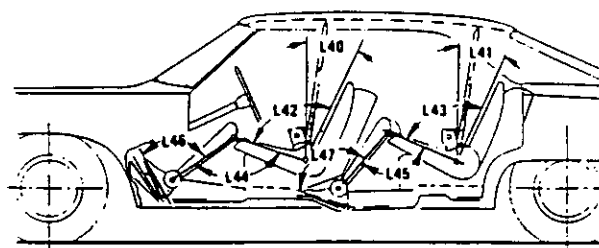
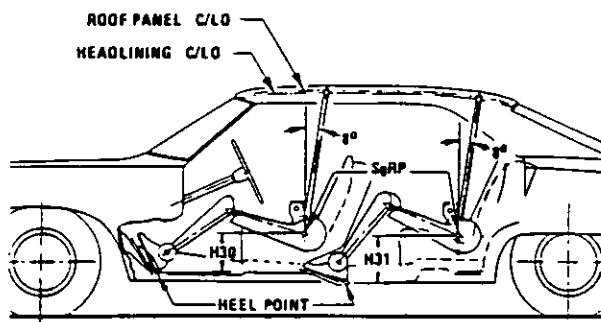
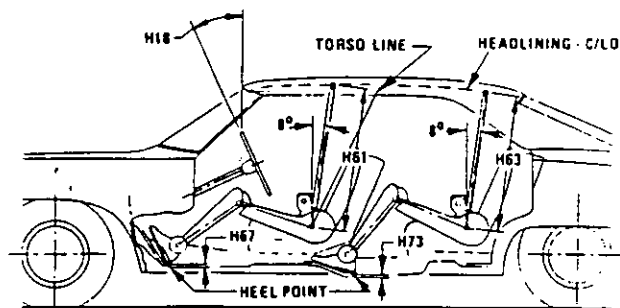
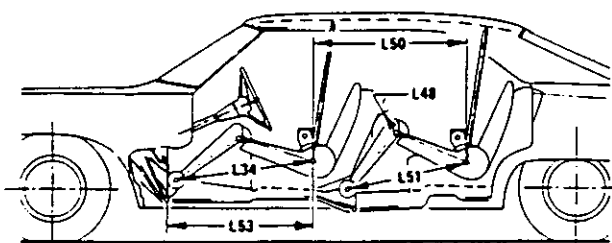
Exterior Ground Clearance



MVMA Specifications Form

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet

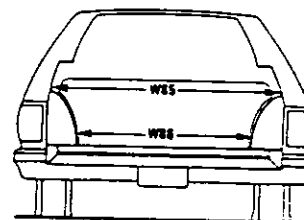
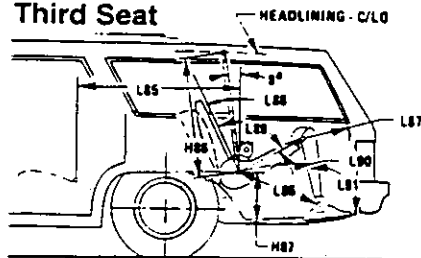


MVMA Specifications

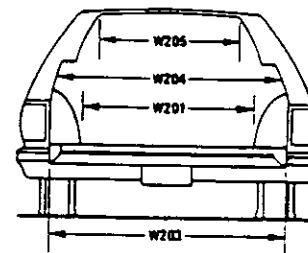
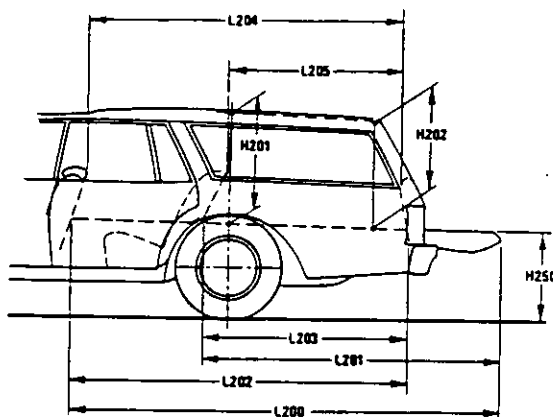
METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet

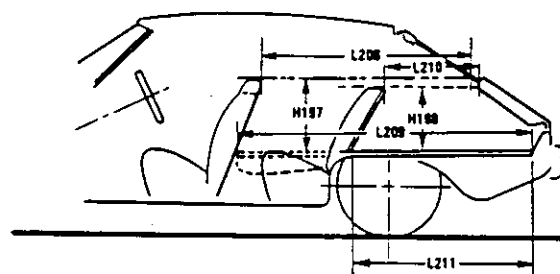
Third Seat



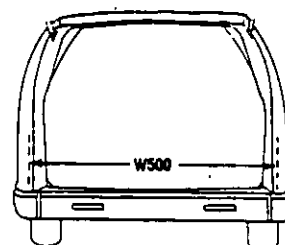
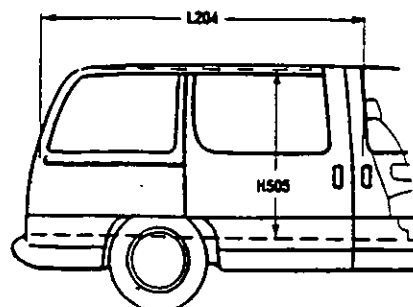
Cargo Space



Station Wagon



Hatchback



Multipurpose Vehicle

MVMA Specifications

METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

Seating Reference Point

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

- (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- (b) Has coordinates established relative to the design vehicle structure;
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations."

Width Dimensions

- W101 TREAD – FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD – REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- 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 glass at the front SgRP "X" plane.
- W410 OUTSIDE MIRROR WIDTH. The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

Length Dimensions

- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHAND – FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- 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 the midpoint of the distance between the rear axle centerlines.

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H111 ROCKER PANEL – REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H112 ROCKER PANEL – FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD – TIRE RADIUS – REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H102.
- 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.
- H105 REAR BUMPER TO GROUND – CURB MASS (WT.). 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.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions -- Key Sheet Dimensions Definitions

Glass Areas

- S1 Windshield area.
- S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3 Backlight areas.
- S4 Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

Fiducial Mark -- Number 1

- L54 "X" coordinate.
- W21 "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at curb weight.
- H163 Height "Z" coordinate to ground.

Fiducial Mark -- Number 2

- L55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- H162 Height "Z" coordinate to ground at curb weight.
- H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT -- FRONT TRAVEL. The dimension measured horizontally between the design H-point -- front in the foremost and rearmost seat track positions. (See SAE 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).
- L31 SgRP -- FRONT. "X" COORDINATED.
- L34 MAXIMUM EFFECTIVE LEG ROOM -- ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP -- front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L40 BACK ANGLE -- FRONT. The angle measured between a vertical line through the SgRP -- front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L42 HIP ANGLE -- FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE -- FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 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.
- L53 SgRP -- FRONT TO HEEL. The dimension measured horizontally from the SgRP -- front to the accelerator heel point.
- W3 SHOULDER ROOM -- FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP -- front at height between the belt line and 254 mm (10.0 in.) above the SgRP -- front, excluding the door assist strap and attaching parts.

- W5 HIP ROOM -- FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP -- front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP -- front and 76 mm (3.0 in.) fore and aft of the SgRP -- front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H7 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP -- front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP -- FRONT TO HEEL. The dimension measured vertically from the SgRP -- front to the accelerator heel point.
- H50 UPPER BODY OPENING TO GROUND -- FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP -- front "X" plane.
- H61 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.).
- H67 FLOOR COVERING THICKNESS -- UNDEPRESSED -- FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

Rear Compartment Dimensions

- L41 BACK ANGLE -- SECOND. The angle measured between a vertical line through the SgRP -- second and the torso line.
- L43 HIP ANGLE -- SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE -- SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE -- SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE -- SECOND. The minimum dimension measured from the knee pivot center to the back of 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 254 mm (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.
- H51 UPPER BODY OPENING TO GROUND -- SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP -- second.
- H63 EFFECTIVE HEAD ROOM -- SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H73 FLOOR COVERING -- DEPRESSED -- SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

Luggage Compartment Dimensions

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

Interior Volumes (EPA Classification)

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

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

Station Wagon / MPV – Third Seat Dimensions

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

Station Wagon / MPV – Cargo Space Dimensions

- L200 CARGO LENGTH – OPEN – FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH – OPEN – SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

- L202 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 the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH – WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.
- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- W500 CARGO WIDTH AT FLOOR. The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- H505 MAXIMUM CARGO HEIGHT. The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

V2 STATION WAGON

Measured in inches:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT.

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

V5 TRUCKS AND MPV'S WITH OPEN AREA.

Measured in inches:

$$\frac{L506 \times W505 \times H503}{1728} = \text{ft}^3$$

Measured in mm:

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

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$

Measured in mm:

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

V8 HIDDEN LUGGAGE CAPACITY – REAR OF SECOND SEAT.

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

V10 STATION WAGON CARGO VOLUME INDEX.

Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

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 electronically 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. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

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

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

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

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

V3 HATCHBACK.

Measured in inches:

$$\frac{L208 + L209}{2} \times W4 \times H197 = \text{ft}^3$$

Measured in mm:

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

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

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

Measured in inches:

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

Measured in mm:

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

MVMA Specifications

METRIC (U.S. Customary)

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