

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1994

Manufacturer TOYOTA MOTOR CORPORATION	Vehicle Line TOYOTA CELICA	
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.

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Vehicle Line TOYOTA CELICA

Model Year 1994 Issued Sep., 1993 Revised()

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/AWD/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)
GT					
5S-FE, 2-dr., Liftback, 5M/T, FWD		ST204L-BLMGKA	2/2	125	
5S-FE, 2-dr., Liftback, 4A/T, FWD		ST204L-BLPGKA	2/2	125	
5S-FE, 2-dr., Coupe, 5M/T, FWD		ST204L-BCMGKA	2/2	125	
5S-FE, 2-dr., Coupe, 4A/T, FWD		ST204L-BCPGKA	2/2	125	
ST					
7A-FE, 2-dr., Liftback, 5M/T, FWD		AT200L-BLMSKA	2/2	125	
7A-FE, 2-dr., Liftback, 4A/T, FWD		AT200L-BLPSKA	2/2	125	
7A-FE, 2-dr., Coupe, 5M/T, FWD		AT200L-BCMSKA	2/2	125	
7A-FE, 2-dr., Coupe, 4A/T, FWD		AT200L-BCPSKA	2/2	125	

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

Vehicle Line TOYOTA CELICA
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Power Teams

			A	B	C	D
ENGINE	Engine Code		5S-FE	—	7A-FE	—
	Displacement Liters(in ³)		2.164	—	1.762(107.5)	—
	Induction system (FI, Carb, etc.)		EFI	—	—	—
	Compression ratio		9.5	—	—	—
	SAE Net at RPM	Power kW(bhp)	Fed.=101(135)/5400 Cal.=97(130)/5400	—	85.8(110)/5600	—
		Torque N · m(lb. ft.)	197(145)/4400	—	155.8(115)/2800	—
	Exhaust single, dual		Single	—	—	—
TRANS	Transmission/ Transaxle		5 M/T	4 A/T	5 M/T	4 A/T
	Effective Final Drive/ Axle Ratio(std. first)		4.176	3.950	4.058	2.821

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Engine Description
Engine Code

5S-FE

7A-FE

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)

Inline, front, transverse, DOHC, pent roof

Manufacturer

TOYOTA MOTOR CORPORATION

No. of cylinders

4

Bore

87.0

81.0

Stroke

91.0

85.5

Bore spacing(C/L to C/L)

93.5-96.5-93.5

87.5

Cylinder block material & mass kg(lbs.)(machined)

Cast iron, 42.6

Cast iron, 33.0

Cylinder block deck height

216.0

206.4

Cylinder block length

409.5

391.5

Deck clearance (minimum)
(above or below block)

0.0

←

Cylinder head material & mass kg(lbs.)

Aluminum alloy, Fed.=12.4 Cal.=12.9

Aluminum alloy, 11.0

Cylinder head volume cm³ (inches³)

40.6

33.7

Cylinder liner material

N.A.

N.A.

Head gasket thickness
(compressed)

1.2

0.56

Minimum combustion chamber
total volume cm³ (inches³)

63.6

46.6

Cyl. no. system

L. Bank

1-2-3-4

1-2-3-4

(front to rear)*

R. Bank

Firing order

1-3-4-2

←

Intake manifold material & mass kg(lbs.)**

Aluminum alloy, 4.4

Aluminum alloy, 3.1

Exhaust manifold material & mass kg(lbs.)**

Cast iron, 6.9

Cast iron, 8.7

Knock sensor (number & location)

1, Cylinder block

Yes

Fuel required unleaded, diesel, etc.

Unleaded

←

Fuel antiknock index (R + M) ÷ 2

91 recommend

87

Engine mounts

Quantity

4

←

Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)

RH... Hydroelastic
LH, FR, RR... Elastomeric

←

Added isolation (sub-frame, crossmember, etc.)

No

FR: CTR member, RR: Sub frame,
RH: RH Side member LH: LH Side member

Total dressed engine mass(wt) dry***

140(M/T), 133(A/T)

125(M/T), 117(A/T)

Engine - Pistons

Material & mass, g
(weight, oz)-piston only

Aluminum alloy, 369

Aluminum alloy, 268

Engine - Camshaft

Location

Cylinder head

←

Material & mass kg (weight, lbs.)

Cast iron, IN: 2.0, EX:1.6

Cast iron, IN: 1.9, EX:2.1

Drive type

Chain / belt

Timing belt, Gear

Belt drive

Width / pitch

26.7/8.0, 14/1.9

8.0/21.1

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following:

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Engine Description
Engine Code

5S-FE

7A-FE

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	N.A.	←
Valves	Number intake/exhaust	8/8
	Head O.D. intake/exhaust	32.0/27.0
		31.0/24.5

Engine - Connecting Rods

Material & mass kg. (weight, lbs.)*	Forged Steel, 0.70	Forged Steel, 0.51
Length (axes C/L to C/L)	138.0	132.5

Engine - Crankshaft

Material & mass kg. (weight, lbs.)*	Forged Steel, 19	Forged Steel, 14.3
End thrust taken by bearing (no.)	No.3	←
Length & number of main bearings	505, 5	489, 5
Seal (material, one, two piece design, etc.)	Front	Fluorine rubber: one piece
	Rear	Fluorine rubber: one piece
		Synthetic rubber: one piece

Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	343/2500	294/6000
Type oil intake (floating, stationary)	Stationary	←
Oil filter system (full flow, part, other)	Full flow	←
Capacity of oil case, less filter-refill-L (qt.)	3.8	3.9

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 seperator, description (std.,opt.)		-
Turbo manufacturer		-
Oil cooler-type(oil to engine coolant; oil to ambient air)		-
Oil filter		-

Engine - Intake System

Turbo charger-manufacturer	N.A.
Super charger-manufacturer	N.A.
Intercooler	N.A.

*Finished State

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Engine - Cooling System

Coolant recovery system(std., opt., n.a.)		Std.	←
Coolant fill location(rad., bottle)		Radiator	←
Radiator cap relief valve pressure kPa(psi)		90	←
Circulation thermostat	Type(choke, bypass)	By-pass	←
	Starts to open at °C (°F)	82	←
Water pump	Type(centrifugal, other)	Centrifugal	←
	GPM 1000 pump rpm	32	16
	Number of pumps	1	←
	Drive(V-belt, other)	Timing belt	V-belt
	Bearing type	Pre-packed ball bearing	Sealed
	Impeller material	Steel	Stainless steel
	Housing material	Aluminum alloy	←
By-pass recirculation type(inter., ext.)		External	←
Cooling system capacity	With heater-L.(qt.)	6.7(M/T) 7.1(A/T)	6.1(M/T) 6.6(A/T)
	With air conditioner-L.(qt.)	6.7(M/T) 7.1(A/T)	6.1(M/T) 6.6(A/T)
	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)		Yes	No
Radiator core	Std., A/C, HD	Std.	←
	Type(cross-flow, etc.)	Vertical flow	←
	Construction(fin & tube mechanical, braze, etc.)	Tube and corrugated fin braze	Corrugated fin
	Material, mass kg(wgt., lbs.)	Aluminum, 1.6(M/T) 2.3(A/T)	Aluminum, 1.6(M/T) 2.2(A/T)
	Width	641	←
	Height	349	←
	Thickness	16(M/T), 27(A/T)	←
Radiator end tank material		FRTF	Plastic
Fan	Std., elec., opt.	Std. electric	Electric
	Number of blades & type (flex, solid, material)	5 Solid, Plastic	5 Flex, Plastic
	Number & location(front, rear of radiator)	1, Rear of radiator	Rear of radiator
	Diameter & projected width	320	320/37
	Ratio(fan to crankshaft rev.)	N.A.	←
	Fan cutout type	Temperature controlled	←
	Drive type(direct, remote)	Electric motor	←
	RPM at idle(elec.)	2180	←
	Motor rating(wattage/elec.)	80	←
	Motor switch(type & location/elec.)	Thermo switch at radiator	Thermo switch, Thermomister at water inlet
	Switch point(temp./pressure/elec.)	90	←
	Fan shroud(material)	FRP	Plastic

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

Induction type: Carburetor, fuel injection system, etc.	Multi-point fuel injection	Fuel injection
Manufacturer	NIPPONDENSO	←
Carburetor no. of barrels	N.A.	←
Idle A/F mix.	Not adjustable	←
Fuel injection	Point of injection(no.)	4
	Constant, pulse, flow	Pulse, flow
	Control(electronic, mech.)	Electronic
	System pressure kPa(psi)	284
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	Approx. 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	Dry type 1 element
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)	Tank
	Pressure range kPa(psi)	284
	Flow rate at regulated pressure L(gal)/hr @kPa(psi)	80/250
		80/284

Fuel Tank

Capacity refill L(gallons)	60	←
Location(describe)	Underside of rear seat floor	←
Attachment	Bands and bolts	←
Material & Mass kg(weight lbs.)	Terneplated 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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7A-FE

Vehicle Emission Control

Exhaust Emission Control	Type(air injection, engine modifications, other)		MFI, O ₂ S, TWC, EGR	EFI, O ₂ S, TWC, EGR
	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	Fed.=1, Cal.=2	2
		Location(s)	Exhaust manifold, under floor(for Cal.)	Exhaust manifold, under floor
		Volume L (in ³)	1.312, 0.500(for Cal.)	1.054, 0.500
		Substrate type	Monolith	←
		Noble metal type	Pt, Rh	←
		Noble metal concentration(g/cm ³)	Pt= 1.81, Rh= 0.48 Pt= 0.36, Rh= 0.67(for Cal.)	Pt= 1.58, Rh= 0.42 Pt= 0.36, Rh= 0.067
Crankcase Emission Control	Type(ventilates to atmosphere, induction system, other)		Induction system closed type	←
	Energy source(manifold vacuum, carburetor, other)		Manifold vacuum	←
	Discharges to(intake manifold, other)		To intake manifold	←
	Air inlet(breather cap, other)		From throttle body	←
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	←
		Carburetor	N.A.	←
	Vapor storage provision		Charcoal 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.)		1: straight thru 1: reverse flow	←
Resonator no. & type			
Exhaust pipe	Branch o.d., wall thickness	48.6, t= 1.5	←
	Main o.d., wall thickness	48.6, t= 1.5	←
	Material & Mass kg (weight lbs.)	Stainless steel, Fed.: 3.8, Cal.: 4.2	Stainless steel, 3.6
Inter-mediate pipe	o.d. & wall thickness	48.6, t= 1.5	←
	Material & Mass kg (weight lbs.)	Stainless steel, 5.7	Stainless steel, 6.1
Tail pipe	o.d. & wall thickness	42.7, t= 1.2 65, t= 1.2	42.7, t= 1.2 48.6, t= 1.0
	Material & Mass kg (weight lbs.)	Stainless steel, 7.2	Stainless steel, 7.1

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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)	N.A.	←
Automatic(manufacturer/country)	TOYOTA/JAPAN	←
Automatic overdrive(manufacturer/country)	-	-

Manual Transmission/Transaxle

Number of forward speeds	5	←
Gear ratios	1st	3.285
	2nd	1.960
	3rd	1.322
	4th	1.028
	5th	0.820
	6th	-
	Reverse	3.153
Synchronous meshing(specify gears)	All including reverse	All foward speeds
Shift lever location	Floor	←
Trans.case mat'l. & mass kg(lbs)*	Aluminum die cast, 42	Aluminum die cast, 37.5
Lubricant	Capacity L(pt.)	2.6
	Type recommended	API GL-3, GL-4 or ATF DEXRON II
		API GL-3

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	110
	Released	110
Assist(spring, power/percent, nominal)	15%	0
Type pressure plate springs	Diaphragm	←
Total spring load(nominal) N (lbs)	4900	4400
Clutch facing	Facing mfr. & material coding	AISIN CHEMICAL
	Facing material & construction	Semi-mold
	Rivets per facing	16
	Outside x inside dia.(nominal)	224 x 150
	Total eff. area cm ² (in. ²)	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	←
Torsional damping method, springs, hysteresis	Single stage	←

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

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Engine Description
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Automatic Transmission/Transaxle

Trade Name		A140E	A246E
Type and special features(describe)		2-mode, 4-speed electric 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	2.810	4.005
	2nd	1.549	2.208
	3rd	1.000	1.425
	4th	0.706	0.981
	Reverse	2.296	3.272
	Final drive ratio		
Max.upshift vehicle speed-drive range km/h(mph)			
Max.upshift engine speed RPM			
Max. kickdown speed-drive range km/h(mph)			
Min. overdrive speed km/h(mph)			
Torque converter	Type		
	Torus design		
	Number of elements	3	←
	Max. ratio at stall	2.0	2.3
	Type of cooling(air,liquid)	Liquid	←
	Nominal diameter	241	230
	Capacity factor "k"		
Pump type			
Lubricant	Capacity refill L(pt.)		3.3
	Type recommended	DEXRON II	←
Oil cooler(std.,opt.,N.A.,internal,external,air,liquid)		Std.in radiator, liquid	←
Transmission mass kg(lbs) & case material**		73.3, Aluminum die cast	72, Aluminum die cast

All Wheel/4 Wheel Drive

Description & type(part-time, full-time, 2/4 shift while moving, mechanical, elect.,chain/gear,etc.)		N.A.
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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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) Double angular ball bearing

Lubricant	Capacity L(pt.)
	Type recommended

Axle Shafts - Front Wheel Drive

Manufacturer and number used TOYOTA MOTOR CORPORATION, 2

Type(straight, solid bar, tubular, etc.)		Left	Solid	
		Right	Solid	
Outer diam. x length* x wall thickness	Manual transaxle	Left	23.5 x 371.0	22.3 x 372.0
		Right	23.5 x 371.0	26.0 x 690.0
	Automatic transaxle	Left	22.8 x 388.0	23.3 x 372.0
		Right	22.8 x 388.0	26.0 x 690.0
	Optional transaxle	Left	—	
		Right	—	

Slip yoke	Type	N.A.
	Number of teeth	N.A.
	Spline o.d.	N.A.

Universal joints	Make and mfg. no.	Inner	
		Outer	
	Number used 4 = 2 each shaft		
	Type, size, plunge	Inner	Tripod, Plunger
		Outer	Rzeppa, Fixed
	Attach(u-bolt, clamp, etc) Inner = Spline and snap ring. Outer = Spline and nut		
Bearing	Type(plain, anti-friction)	Ball bearing	N.A.
	Lubrication (fitting, prepack)	Prepack	N.A.

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 attachment.

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Model Code/Description And/Or
Engine Code/Description

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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	-
Shock absorber (front & rear)	Road surface	-
	Type	Tube, Double acting/Tube, Double acting
	Make	TOYOTA/KAYABA or TOKICO
	Piston diameter	32/32
	Rod diameter	22/22

Suspension - Front

Type and description		Macpherson strut	
Travel	Full jounce(define load condition)	72	
	Full rebound	90	
Spring	Type(coil,leaf,other & material)	Coil, Alloy steel	
	Insulators(type & material)	Upper and lower, Rubber	
	Size(Leaf:length & width;Coil:design height & i.d.;Bar:length & diameter)	M/T= 305.0 x (136.7-116.7), 305.0 x (136.6-116.6) A/T= 310.5 x (136.6-116.6)	M/T= 301.5 x (137.0-117.0),301.5 x (136.9-116.9) A/T= 307.5 x (136.9-116.9),307.0 x (136.9-116.9)
	Spring rate[N/mm (lb./in.)]	27.5	26.0
	Rate at wheel[N/mm (lb./in.)]	25.9	23.9
	Type(link, linkless, frameless)	Link	
Stabilizer	Material & O.D. bar/tube, wall thickness	20, Alloy steel	18, Alloy steel

Suspension - Rear

Type and description		Strut	
Travel	Full jounce(define load condition)	85	
	Full rebound	100	
Spring	Type(coil, leaf, other & material)	Coil, Alloy steel	
	Size(Leaf:length & width;Coil:design height & i.d.;Bar:length & diameter)	324.5 x (118.3-88.3), 323.5 x (118.3-88.3) 324.5 x (119.3-89.3), 323.5 x (119.2-89.2)	310.0 x (118.6-88.6) 310.0 x (119.6-89.6) 310.0 x (119.4-89.4)
	Spring rate[N/mm (lb./in.)]	21.0	21.0
	Rate at wheel[N/mm (lb./in.)]	20.5	20.2
	Insulators(type & material)	Upper and lower, Rubber	
	If leaf	No of leaves	-
		Shackle(comp.or tens.)	-
	Type(link, linkless, frameless)	Link	
Stabilizer	Material & O.D. bar/tube, wall thickness	17, Alloy steel	
	Track bar(type)	N.A.	

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Brakes - Service

Description		4-wheel hydraulic actuation with diagonal circuits	
Manufacturer and brake type(std., opt., n.a.)	Front(disc or drum)	AISIN, disc std.	HOUSE1, disc std.
	Rear(disc or drum)	AKEBONO, disc std.	HOUSE1, drum std.
Valving type(proportion, delay, metering, other)		P valve	←
Power brake(std., opt., n.a.)		Std.	←
Booster type(remote, integral, vac., hyd., etc.)		Integral, vacuum	←
Vacuum	Source(inline, pump, etc.)	Inline	←
	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.)	Front and rear, opt.	←
	Manufacturer	AISIN	←
	Type(electronic, mech.)	Electronic	←
	Number sensors or circuits	4	←
	Number anti-lock hydraulic circuits	4	←
	Integral or add-on system	Add-on	←
	Yaw control(yes, no)	Yes	←
Hydraulic power source (elec., vac. mtr., pwr. strg.)		Electric motor	←
Effective area cm²(in.²) *		208/71	143/269
Gross Lining area cm² (in.²) ** (F/R)		227/136	192/269
Swept area cm²(in.²) *** (F/R)		1465/1027	1217/440
Rotor	Outer working diameter	F/R 273/267	253/N.A.
	Inner working diameter	F/R 167/197	159/N.A.
	Thickness	F/R 28/10	25/N.A.
	Material & type(vented/solid)	F/R Cast iron vented/Cast iron solid	Cast iron vented/N.A.
Drum	Diameter & width	F/R N.A.	N.A./200 & 35
	Type and material	F/R N.A.	N.A./Cast iron
Wheel cylinder bore		57.22/34.93	57.22/19.05
Master cylinder	Bore/stroke	F/R (23.8/14.0)/(23.8/14.0)	←
Pedal arc ratio		3.77	←
Line pressure at 445 N(100 lb.) pedal load(kPa(psi))		10880	←
Lining clearance		F/R Self adjust/Self adjust	←
Brake lining	Front wheel	Bonded or riveted(rivets/seg.)	Bonded
		Rivet size	N.A.
		Manufacturer	AKEBONO
		Lining code*****	PA533-EE
		Material	Molded resin, non-asbestos
		**** Primary or out-board	122.0 x 52.0 x 11.0
		Size Secondary or in-board	122.0 x 52.0 x 11.0
		Shoe thickness(no lining)	6.0
	Rear wheel	Bonded or riveted(rivets/seg.)	Bonded
		Manufacturer	AKEBONO
		Lining code*****	PA511-EE
		Material	Molded resin, non-asbestos
		**** Primary or out-board	108.0 x 34.0 x 10.0
		Size Secondary or in-board	108.0 x 34.0 x 10.0
		Shoe thickness(no lining)	5.0

*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.

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Tires And Wheels(Standard)

Tires	Size(service description)		205/55R15 87V, P205/55R15 87V	185/70R14 88S, P185/70R14 87S
	Type(bias, radial, steel, nylon, etc.)		Radial/Steel	←
	Inflation pressure(cold) for recommended max. vehicle load	Front kPa(psi)	33	29
		Rear kPa(psi)	33	29
	Rev./mile-at 70 km/h(45 mph)		874	851
Wheels	Type & material		Steel	←
	Rim(size & flange type)		15 x 6 1/2 JJ	14 x 6 JJ
	Wheel offset		45	←
	Attachment	Type(bolt or stud & nut)	Stud	←
		Circle diameter	100.0	←
Spare	Number & size		5-M12 x 1.5.	←
	Tire and wheel		T135/70D16, 16 x 4T	T125/70D16, 16 x 4T
	Storage position & location (describe)		Flat in trunk well	←

Tires And Wheels(Optional)

Tire size(service description)		205/55R15 87V, P205/55R15 87V	-
Type(bias, radial, steel, nylon, etc.)		Radial/Steel	-
Wheel(type & material)		Aluminum	-
Rim(size, flange type and offset)		15 x 7JJ, 45	-
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)		-	-

Brakes - Parking

Type of control		Hand operated	←
Location of control		Floor	←
Operates on		Drums built in rear disc rotor	Rear service brakes
If separate from service brakes	Type(internal or external)	Internal	N.A.
	Drum diameter	170.0	N.A.
	Lining size(length x width x thickness)	163.0 x 25.0 x 2.0	N.A.

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Steering

Manual(std., opt., n.a.)				N.A.	
Power(std., opt., n.a.)				Std.	
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	Conve.(Tilt)
		Manufacturer		TOYOTA	
		(std., opt., n.a.)		Std.	Std.(opt.)
Wheel diameter** (W9)SAE J1100		Manual		-	
		Power		370	
Turning diameter m(ft.)	Outside front	Wall to wall(l.& r.)		11.2	
		Curb to curb(l.& r.)		10.4	
	Inside rear	Wall to wall(l.& r.)		5.8	
		Curb to curb(l.& r.)		6.0	
Scrub Radius*				4	
Manual	Gear	Type		-	
		Manufacturer		-	
		Ratios	Gear	-	
			Overall	-	
	No. wheel turns(stop to stop)		-		
Power	Type(coaxial, elec., hyd., etc.)		Integral, Hydraulic		
	Manufacturer		TOYOTA		
	Gear	Type		Rack & Pinion	
		Ratios	Gear	∞	
			Overall	17.2	
	Pump(drive)		V belt		
	No. wheel turns(stop to stop)		2.90		
Linkage	Type		Tie rod directly attached to rack end		
	Location(front or rear of wheels, other)		Rear of wheels		
	Tie rods(one or two)		Two		
Steering axis	Inclination at camber(deg.)		15°		15°05'
	Bearings (type)	Upper	Ball Bearing		
		Lower	Ball Joint		
		Thrust	N.A.		
Steering spindle/knuckle & joint type				Macpherson strut and ball joint	

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

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Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster(deg.)	$2^{\circ}05' \pm 45'$	←
		Camber(deg.)	$-0^{\circ}45' \pm 45'$	$-0^{\circ}50' \pm 45'$
		Toe-in outside track-mm(in.)	0 ± 2	←
	Service reset*	Caster(deg.)	$2^{\circ}05' \pm 30'$	←
		Camber(deg.)	$-0^{\circ}45' \pm 30'$	$-0^{\circ}50' \pm 30'$
		Toe-in-mm(in.)	0 ± 1	←
	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.)	$-1^{\circ}10' \pm 45'$	$-1^{\circ}15' \pm 45'$
		Toe-in outside track-mm(in.)	3 ± 2	←
	Service reset*	Camber(deg.)	$-1^{\circ}10' \pm 45'$	$-1^{\circ}15' \pm 45'$
		Toe-in-mm(in.)	3 ± 2	←
	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.)	Std., 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
	Warning device(light, audible)	Light
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)	Light
Wind-shield wiper	Type(standard)	Electric 2 speed with adjustable intermittent and mist operation
	Type(optional)	-
	Blade length	LH: 525, RH: 500
	Swept area cm ² (in. ²)	6649
Wind-shield washer	Type(standard)	Electric motor
	Type(optional)	-
	Fluid level indicator (light, audible)	No
Rear window wiper,wiper/washer(std.,opt.,n.a.)		5S-FE Liftback: Std., 7A-FE Liftback: Opt., Coupe: NA
Horn	Type	Electric vibration
	Number used	2
Other		

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Electrical - Supply System

Battery	Manufacturer	FURUKAWA, MATSUSHITA, NIHON-DENCHI, SHIN-KOBE, YUASA	
	Model, std.,(opt.)	65D23L(55D23L)	55D23L(32C24L)
	Voltage		
	Amps at 0°F cold crank	420(356)	356(238)
	Minutes-reserve capacity	111(99)	99(57)
	Amps/hrs.-20hr. rate	65(60)	60(40)
	Location	Left front of engine compartment	
Alternator	Manufacturer	NIPPONDENSO	
	Rating(idle/max. rpm)	12V-70A(M/T), 12V-80A(A/T)	
	Ratio(alt.crank/rev.)	1: 2.67(M/T), 1: 2.55(A/T)	
	Output at idle(rpm, park)	-	
	Optional(type & rating)	12V-80A(M/T), 12V-90A(A/T)	
Regulator	Type	IC Regulator	

Electrical - Starting System

Motor	Manufacturer	NIPPONDENSO	
	Current drain ____°C (°F)	-	
	Power rating kw(hp)	1.4	1.4(1.2)
Motor drive	Engagement type	Solenoid shift	
	Pinion engages from(front, rear)	from rear	from front

Electrical - Ignition System

Type	Electronic(std., opt., n.a.)		Std.	←
	Other(specify)		-	←
Coil	Manufacturer		NIPPONDENSO	
	Model		N.A.	
	Current	Engine stopped-A	0A	←
		Engine idling-A	0.7A	0.6A
Spark plug	Manufacturer		NIPPONDENSO, NGK	
	Model		PKZ0R11, BKROIP-11	
	Thread(mm)		14	
	Tightening torque N·m(lb.-ft.)		18.4	
	Gap		1.1	
	Number per cylinder		1	
Distributor	Manufacturer		NIPPONDENSO	
	Model		N.A.	

Electrical - Suppression

Locations & type	Distributor rotor	Flame, sprayed distributor rotor	Ceramic distributor rotor
	High tension cord	High resistance high tension cord	←
	Spark plug	High resistance spark plug	←
	Others	-	-

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Body

Structure

-

Bumper system
front-rear

Urethane fascia, energy
absorber foam and
reinforcement

Anti-corrosion treatment

Urethane fascia, energy
absorber foam and
reinforcement

Body - Miscellaneous Information

Type of finish(lacquer, enamel, other)		Thermosetting amino-alkyd enamel, Thermosetting acrylic enamel -
Hood	Material & mass	-
	Hinge location(front, rear)	Rear
	Type(counterbalance, prop)	Prop
	Release control(internal, external)	Internal
Trunk lid	Material & mass	-
	Type(counterbalance, other)	Gas props
	Internal release control(elec., mech., n.a.)	Mech
Hatch-back lid	Material & mass	-
	Type(counterbalance, other)	Gas props
	Internal release control(elec., mech., n.a.)	Mech
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	Cable
	Rear	-
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Separate: Panel frame, Spring, Foam Pad
	Rear	Bench: Wire Frame, Foam Pad
	3rd seat	N.A.
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Panel Frame, Spring, Foam Pad
	Rear	Pipe Frame, Foam Pad, Boad
	3rd seat	N.A.

Frame

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

Unitized

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Restraint System

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

Glass	SAE Ref.No.	
Windshield glass exposed surface area cm ² (in. ²)	S1	8610
Side glass exposed surface area cm ² (in. ²) -total 2-sides	S2	Lift back= 7620, Coupe= 7700
Backlight glass exposed surface area cm ² (in. ²)	S3	Lift back= 6810, Coupe= 5340
Total glass exposed surface area cm ² (in. ²)	S4	Lift back= 23040, Coupe= 21650
Windshield glass(type/thickness)		Curved, laminated 4.8
Side glass(type/thickness)		Curved, Tempered Door 5, Quarter 3.1
Backlight glass(type/thickness)		Curved, Tempered 3.5
Tinted(yes/no, location)		Windshield
Solar control(yes/no, coated/batched, location)		Datched, Side and Backlight Glass

Headlamps

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

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Climate Control System

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

Opt., Man.

Condenser	Type	Multi flow type	
	Eff. face area(sq. mm.)	200777(W x H = 590 x 340.3)	
	Fins per inch	Pitch= 2.8 mm	
Evaporator	Type	Drawn cup type	
	Eff. face area(sq. mm.)	57615(W x H = 250.5 x 230)	
	Fins per inch	Pitch= 4.0 mm	
Heater core	Material	Copper-brass	
	Eff. face area(sq. mm.)	30910(W x H = 220 x 140.5)	
	Fins per inch	Pitch= 2.8 mm	
Compressor	Type	M/T= 10PA17C. A/T= 10PA17VC	10PA15C
	Displacement(cc.)	177.7	155.3
	Manufacturer	NIPPONDENSO	
	A/C pulley ratio	1.037	0.963
Accumulator	Type	N.A.	
	Height(mm.)	-	
	Diameter(mm.)	-	
Receiver	Type	Normal	
	Height(mm.)	-	187
	Diameter(mm.)	-	60
Refrigerant control(CCOT, TVS, etc.)		-	
Heater water valve(yes/no)		Yes	
Refrigerant(R-12, R-134a, etc.)		R134a	
Charge level(lbs. -oz.)		650 g	
Cold engine lockout switch(yes/no)		-	
Wide open throttle cutout switch(yes/no)		-	

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

Clock(digital, analog)		Std., Digital
Compass/thermometer		N.A.
Console(floor, overhead)		Std., Floor
Defroster, electric windshield		-
Defroster, electric backlight		Std., Electric backlight
Electronic	Diagnostic monitor(integrated, individual)	-
	Instrument cluster(list instruments)	-
	Keyless entry	N.A.
	Tripminder(avg.spd.,fuel)	-
	Voice alert(list items)	-
	Other	-
Fuel door lock(remote, key, electric)		Remote
Lamps	Auto head on/off delay, dimming	N.A.
	Cornering	-
	Courtesy(map, reading)	Std.
	Door lock, ignition	Std.
	Engine compartment	-
	Fog	-
	Glove compartment	Std.
	Trunk	Std.
	Illuminated entry system (list lamps, activation)	-
	Other	
Mirrors	Day/night(auto, man.)	N.A.
	L.H.(remote, power, heated)	Std., Power
	R.H.(convex, remote, power, heated)	Std., Convex, Power
	Visor vanity(RH/LH, illuminated)	-
Navigation system(describe)		-
Parking brake-auto release(warning light)		-

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Power equipment	Deck lid(release, pull down)		N.A.	←
	Door locks(manual, automatic, describe system)		Std., Manual	Opt., Manual
	Seats	2-4-6 way, etc.	N.A.	←
		Reclining(R.H., L.H.)	N.A.	←
		Memory(R.H.,L.H., preset recline)	N.A.	←
		Support(lumber, hip, thigh, etc.)	N.A.	←
		Heated(R.H., L.H., other)	N.A.	←
	Side windows		Std.	Opt.
	Vent windows		-	-
Rear windows		-	-	
Radio systems	Antenna(location, whip, w/shield, power)		Std., Pull-top rear fender Opt., Power rear fender Opt., Power, rear fender, rear windshield	Std., Pull-top rear fender Opt., Power rear fender
	Standard	AM,FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Radio Cassette	AM/FM Radio
	Optional		OPT.1 AM/FM Radio, Cassette theft deterrent OPT.2 AM/FM Radio, Cassette CD equalizer theft deterrent	AM/FM Radio Cassette - -
	Speaker(number, location)		Std., 4 Speakers Opt.1, 6 Speakers Opt.2, 8 Speakers (Fr door, Rear Seat Side)	4 Speakers(Fr door, Rear Seat Side)
Roof: open air or fixed(flip-up, sliding, "T")				
Speed control device			Opt.	←
Speed warning device(light, buzzer, etc.)			N.A.	←
Tachometer(rpm)			8000	←
Telephone system(describe)			-	-
Theft deterrent system			N.A.	←

Towing capable	Yes/No	Yes	←
Engine/transmission/axle	Std/Opt	-	-
Tow class (I, II, III) *	Std/Opt	Class I	1500
Max. gross trailer wgt.(lbs.)	Std/Opt	2000	1500
Max. trailer tongue load(lbs.)	Std/Opt	200	150
Towing package available	Yes/No	No	←

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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.

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Width

Tread(front)	W101	1515
Tread(rear)	W102	1495
Vehicle width	W103	1750
Body width at Sg RP(front)	W117	1717
Vehicle width(front doors open)	W120	3513
Vehicle width(rear doors open)	W121	-
Tumble-home(degrees)	W122	30.0
Outside mirror width	W410	1.902

Length

Wheelbase	L101	2540	
Vehicle length	L103	Liftback= 4425, Coupe= 4495	
Overhang(front)	L104	990	
Overhang(rear)	L105	Liftback= 895, Coupe= 965	
Upper structure length	L123	2766	2984
Rear wheel C/L "X" coordinate	L127	2538	

Height**

Passenger distribution(front/rear)	PD1,2,3	..	
Trunk/cargo load		..	
Vehicle height	H101	Liftback= 1290, Coupe= 1295	
Cowl point to ground	H114	890	895
Deck point to ground	H138	Liftback= 970, Coupe= 960	Liftback= 975, Coupe= 970
Rocker panel-front to ground	H112	175	180
Rocker panel-rear to ground	H111	180	185
Windshield slope angle(degrees)	H122	116.5	
Backlight slope angle(degrees)	H121	Liftback=72.0, Coupe=63.5	

Ground Clearance**

Front bumper to ground	H102	230	235
Rear bumper to ground	H104	330	Liftback= 340, Coupe= 335
Bumper to ground front at curb mass(wt.)	H103	240	245
Bumper to ground rear at curb mass(wt.)	H105	Liftback= 355, Coupe= 350	360
Angle of approach(degrees)	H106	14.5	←
Angle of departure(degrees)	H107	Liftback= 18, Coupe= 17	Liftback= 20, Coupe= 19
Ramp breakover angle(degrees)	H147	167	←
Axle differential to ground(front/rear)	H153	-	-
Min.running ground clearance	H156	130	135
Location of min. run. grd. clear.		Front sub-frame	←

**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 CELICA**

Model Year **1994**

Issued **Sep., 1993**

Revised()

METRIC(U.S.Customary)

Vehicle Dimensions See Key Sheets for definitions

Model Code/Description

SAE
Ref.
No.

5S-FE

7A-FE

Front Compartment

SgRP front, "X" coordinate	L31	1392.7	
Effective head room	H61	SR=829.7 NR=875.6	SR=826.4 NR=872.2
Max. eff. leg room(accelerator)	L34	1122.1	
SgRP to heel point	H30	204.0	
SgRP to heel point	L53	945.3	
Back angle(degrees)	L40	25.0	
Hip angle(degrees)	L42	102.9	
Knee angle(degrees)	L44	143.1	
Foot angle(degrees)	L46	87.0	
Design H-point front travel	L17	238.2	
Normal driving & riding seat track trvl.	L23	238.2	
Shoulder room	W3	1333.2	
Hip room	W5	1340.8	
***Upper body opening to ground	H50	-	
Steering wheel maximum diameter*	W9	370	
Steering wheel angle(degrees)	H18	19.8	
Accel. heel pt. to steer. whl. cntr	L11	-	
Accel. heel pt. to steer. whl. cntr	H17	-	
Undepressed floor covering thickness	H67	-	

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	645.3	
Effective head room	H63	SR=772.9 NR=779.1	741.8
Min. effective leg room	L51	681.1	
SgRP(second to heel)	H31	244.9	
Knee clearance	L48	Std.= -118.3, Opt.; Sport seat= -118.4	
Shoulder room	W4	1267.6	
Hip room	W6	1214.8	
***Upper body opening to ground	H51	-	
Back angle(degrees)	L41	25.0	
Hip angle(degrees)	L43	70.9	
Knee angle(degrees)	L45	55.7	
Foot angle(degrees)	L47	106.2	
Depressed floor covering thickness	H73	-	

Luggage Compartment

Usable luggage capacity L(cu. ft.)	V1	-	-
***Liftover height	H195	Liftback=860, Coupe=840	Liftback=865, Coupe=850

Interior Volumes(EPA Classification)

Vehicle class	Sub compact Car
Interior volume index including trunk/cargo(cu. ft.)**	Liftback SR=91.6 NR=93.4, Coupe SR=87.2 NR=89.1
Trunk/cargo index(cu. ft.)	Liftback=16.2, Coupe=10.6

*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 CELICA
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

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	Std.=1372.3, Opt.: W/Sport seat=1372.2
Cargo length at floor(front)	L209	1400.7
Cargo length at second seatback height	L210	486.1
Cargo length at floor(second)	L211	957.9
Front seatback to load floor height	H197	-
Second seatback to load floor height	H198	502.3
Cargo volume index m ³ (ft. ³)	V3	Std.=0.485, Opt.: W/Sport seat=0.491
Hidden cargo volume index m ³ (ft. ³)	V4	0.460
Cargo volume index-rear of 2-seat	V11	0.460

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

*MPV-Multipurpose Vehicle

•EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications

Vehicle Line TOYOTA CELICA

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 front Semi-circular knotch in rocker panel flange for front jack-up point.
Rear(1)	
Rear(2)	Center of backmost Semi-circular knotch in rocker panel flange for rear jack-up point.
Note: Provide 3 of 4 Fiducial Mark Locations	
Front	W21** W6 + 85.5
	L54** L15 + 70.0
	H81** H10 - 34.3
	... H161** 5S-FE=185, 7A-FE=190
	... H163** 5S-FE=170, 7A-FE=175
Rear	W22** W6 + 86.5
	L55** L30 + 73.5
	H82** H10 - 44.0
	... H162** 5S-FE=180, 7A-FE=190
	... H164** 5S-FE=165, 7A-FE=170

*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

Revised(·)

METRIC(U.S. Customary)

Model Year 1994

Issued Sep., 1993

Revised(-)

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

Technical drawing of a vehicle interior, likely a truck or bus, showing dimensions and a section line. The drawing includes the following labels and dimensions:

- W101: Dimension across the front window area.
- W103: Dimension across the front window area.
- W410: Dimension across the front window area.
- W117: Dimension across the front window area.
- W118: Dimension across the front window area.
- W120: Dimension across the front window area.
- W121: Dimension across the front window area.
- W102: Dimension across the front window area.
- W122: Dimension across the front window area.
- Section A-A: A line indicating a cross-section through the vehicle interior.

Technical drawing of a car side profile with dimension lines and labels. The drawing shows the car's outline with various points labeled with alphanumeric codes. Dimension lines with arrows indicate measurements between these points. The labels include:

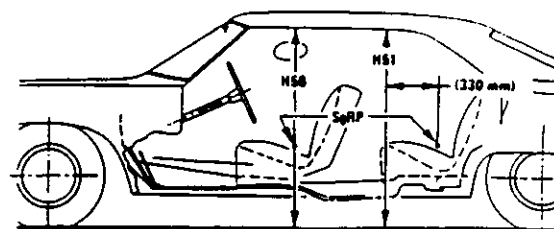
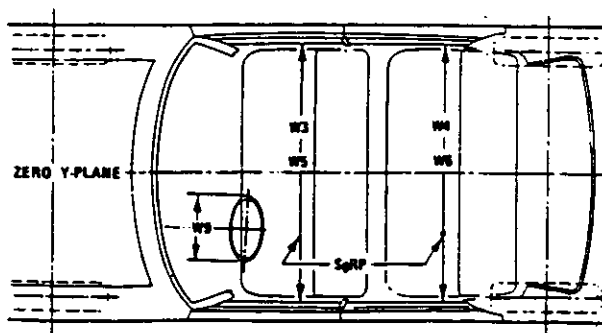
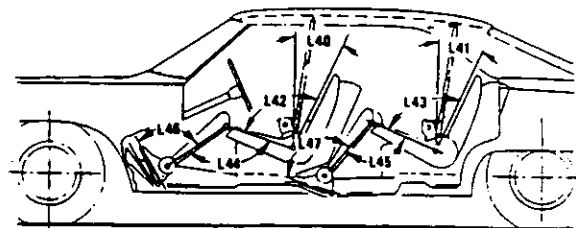
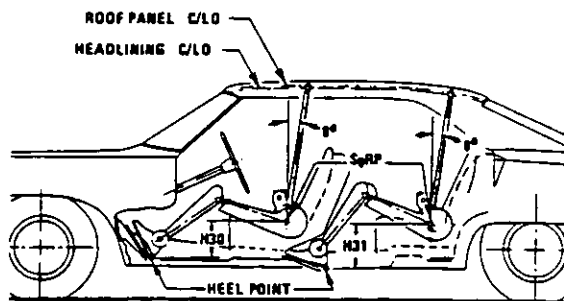
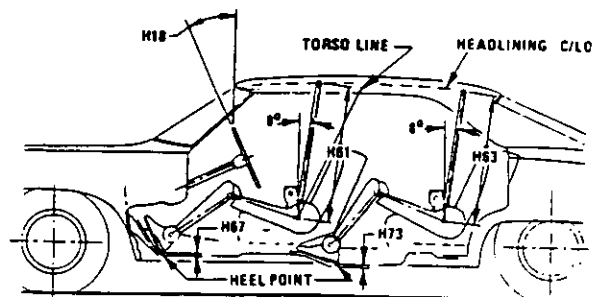
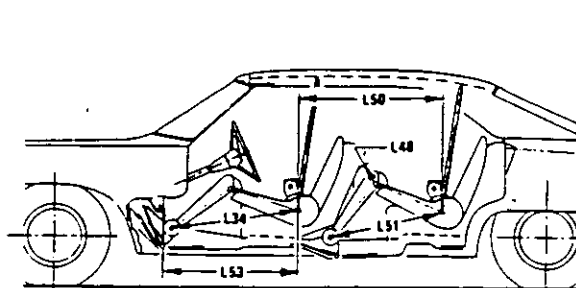
- L123**: Overall length dimension.
- H101**: Overall height dimension.
- H122**: Dimension from the top of the front wheel to the top of the roof.
- H121**: Dimension from the top of the rear wheel to the top of the roof.
- H114**: Dimension from the top of the front wheel to the top of the front door.
- H138**: Dimension from the top of the rear wheel to the top of the rear door.
- H102**: Dimension from the ground line to the top of the front bumper.
- H103**: Dimension from the ground line to the top of the front wheel.
- H112**: Dimension from the ground line to the top of the front door.
- H111**: Dimension from the ground line to the top of the rear wheel.
- H106**: Dimension from the ground line to the top of the rear door.
- H105**: Dimension from the ground line to the top of the rear bumper.
- L104**: Dimension from the front of the car to the front of the front wheel.
- L101**: Dimension from the front of the car to the front of the rear wheel.
- L105**: Dimension from the front of the rear wheel to the rear of the car.
- L103**: Overall length dimension (repeated).

Technical drawing of a ramp assembly. The drawing shows a side view of a ramp with various components labeled with callouts: H108 (left end), H147 (RAMP BREAKOVER ANGLE), H152 (right end), H188 (right end), and H167 (right end). A curved arrow indicates the INCLUDED RAMP ANGLE.

MVMA Specifications Form

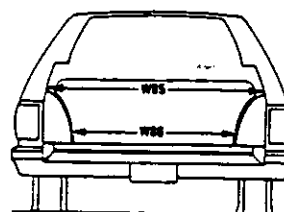
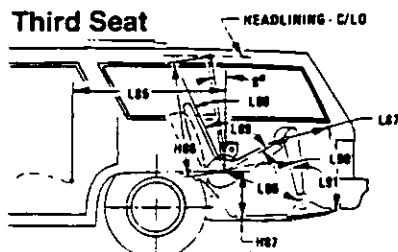
METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet



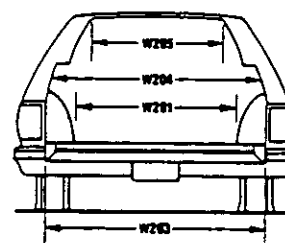
METRIC (U.S. Customary)

Third Seat



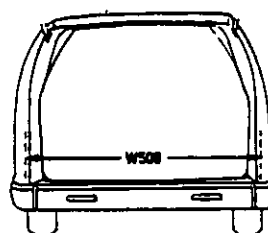
Technical drawing of a vehicle side profile showing dimensions in millimeters (mm). The drawing includes the following dimensions:

- L204: Overall length
- L205: Wheelbase
- H201: Height to the top of the roof
- H202: Height to the top of the rear window
- H203: Height to the top of the rear bumper
- L200: Overall length (including the rear bumper)
- L201: Wheelbase (including the rear bumper)
- L202: Distance from the front wheel to the rear bumper
- L203: Distance from the front wheel to the rear window
- H204: Height to the top of the rear bumper (including the rear bumper)



Technical drawing of a car body side profile. Dimensions shown include L200, L210, M107, M100, L200, and L211.

A line drawing of a vehicle, likely a truck or bus, shown from a side profile. A dimension line at the top indicates a length of L204. A vertical dimension line on the side indicates a height of H585. The vehicle has a large front window, a side window, and a rear window. The rear of the vehicle shows a tailgate and a spare tire mounted on the side.



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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 wheelhouseings 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:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

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.

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

Measured in inches:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = \text{ft}^3$$

Measured in mm:

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

MVMA Specifications

METRIC (U.S. Customary)

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