MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1991

Manufacturer	Vehicle Line	
TOYOTA MOTOR CORPORATION	тоус	OTA CELICA
Mailing Address Toyota Motor Sales, U.S.A., Inc.		
19001S, Western Avenue,	Issued	Revised
Torrance, CA90509	July, 1990	

Direct questions concerning these specifications to the manufacturer listed above.

The information contained herein is prepared, distributed by, and is solely the responsibility of the vehicle manufacturing company to whose products it relates. This suggested specification form was developed by the vehicle manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

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

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NOTE:

- This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
- 2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.b. Nominal design dimensions are used throughout these specifications.

 - All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
- The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.
- Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

Vehicle Line TOYOTA CELICA

Model Year 1991 Issued July, '90 Revised (*)

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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.	

 \varnothing Vehicle Models

Model Description & Drive (FWD / RWD / AWD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fue Economy (City/Hwy
CELICA Coupe					
ST, 5M/T, FWD	,	AT180L-BCMSKA	2/2	55	
ST, 4A/T, FWD		AT180L-BCPSKA	2/2	55	
GT, 5M/T, FWD		ST184L-BCMGKA	2/2	55	
GT, 4A/T, FWD		ST184L-BCPGKA	2/2	55	
CELICA Liftback					
GT, 5M/T, FWD		ST184L-BLMGKA	2/2	55	
GT, 4A/T, FWD		ST184L-BLPGKA	2/2	55	
CELICA Liftback Wide					
GT-S, 5M/T, FWD		ST184L-BLMVKA	2/2	55	
GT-S, 4A/T, FWD		ST184L-BLPVKA	2/2	55	
All-Trac, 5M/T, AWD		ST185L-BLMVZA	2/2	55	

^{*} 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	В	C1	C C2	D1 C	D2
	Engine (Code	4A-FE	4A-FE	5S-FE		5S-FE	3S-GTE
	Displace	ement	1.578(96.8)	1.587(96.8)	2.164(13	2.0)	2.164 (132.0)	1.998 (122)
m m	-	n system	EFI	EFI	EFI		EFI	EFI W/turbo
ENGINE	Compre	ession	9.5	9.5	9.5		9.5	8.8
Ш	ratio	Power	77(103)@6000,Fed.	Same as left	97 (130)	25400	97(130) @5400	149(200) @6000
	Net at RPM	Torque N • m (fb, ft.)	76(102)@5800,CA 138(102)@3200,Fed 137(101)@4800,CA	Same as left	190(140))@4400	190(140) @4400	271 (200) @3200
	Exhaus	1	Single	Single	Single		Single	Single
S	Transm Transa	nission/	5M/T	4A/T	5M/T	4A/T	5M/T	5M/T
	Axle R. (std. fir		4.312	3.034	3.736	3.034	3.944	4.285

Series Avail	ability	Power Te	ams (A - B - C - D)
Model	Code	Standard	Optional
upe ·		A	
ST, 5M/T, FWD	AT180L-BCMSKA	В	
ST, 4A/T, FWD	AT180L-BCPSKA		
GT, 5M/T, FWD	ST184L-BCMGKA	C1	
GT, 4A/T, FWD	ST184L-BCPGKA	C2	
ftback			
GT, 5M/T, FWD	ST184L-BLMGKA	C1	
GT, 4A/T, FWD	ST184L-BLPGKA	C2	
ftback Wide			
GT-S, 5M/T, FWD	ST184L-BLMVKA	D1	
GT-S, 4A/T, FWD	ST184L-BLPVKA	C2	
All-trac, 5M/T, AWD	ST185L-BLMVZA	D2	

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MEINIC (C	J.S. Customary)			•		
Engine Description Engine Code		4A-FE, 1.587L	5S-FE, 2.164L	3S-GTE, 1.998L		
ENGINE -	GENERAL		· · · · · · · · · · · · · · · · ·			
flat, location, from transverse, longit	on (inline, V, angle, nt, mid, rear. tudinat, sohc, dohc, e, pre-chamber, etc.)	In-line, front, tran	nsverse, DOHC, pentroo	f		
Manufacturer TOYOTA MOTOR CORPORATION						
No. of cylinders		4	1	· _ · · · · · · · · · · · · · · · · · ·		
Bore		81.0	87.0	86.0		
Stroke		77,0	91.0	86.0		
Bore spacing (C / L to C / L)		87.5	93,5-96,5-93,5			
Cylinder block material & mass kg (lbs.) (machined)		Cast Iron, 36.0	Cast iron, 42.0	Cast Iron, 36.3		
Cylinder block deck height		191.0	216.0			
Cylinder block length		391.5	409.5			
Deck clearance (above or below t	minimum) block)	0	0.4	Above 0.1		
Cylinder head ma	aterial & mass kg (lbs.)	Aluminum allov. 9.3	Aluminum alloy, 12.1	Aluminum alloy,		
Cylinder head vo	lume (cm ³)	30,2	38.5	50.8		
Cylinder liner ma	terial	NA	NA	NA		
Head gasket thic (compressed)	kness	1.20	1.20	1.25		
Minimum combustion chamber total volume (cm ³)		46.7	63.6	64.1		
Cyl. no. system	L. Bank	1-2-3-4				
(front to rear)* R. Bank		-				
Firing order		1-3-4-2				
Intake manifold material & mass [kg (lbs.)]**		Aluminum alloy, 3.1	Aluminum alloy, 4.1	Aluminum alloy,		
Exhaust manifold material & mass (kg (lbs.)]**		Spheroidal graphite, 4.0	Cast iron, 6.9	Cast steel, 4.5		
Knock sensor (ye	es / no)	no	no	yes		
Fuel required unl	leaded, diesel, etc.	Unleaded	Unleaded	Unleaded premium		
				au - p z um z um		

Engine - Pistons

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

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

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

Aluminum alloy, 293 Aluminum alloy, 354 Aluminum alloy, 393

Center member with cushions

87

4

Engine - Camshaft

Fuel antiknock index (R + M) ÷ 2

Total dressed engine mass (wt) dry***

Engine mounts

Quantity

Location		Cylinder he	ead				
Material & mas	ss kg (weight, lbs.) .	Grey cast iron	IN: 1.8 EX: 1.9	•	IN: 2.1 EX: 1.6	Cast iron	IN:1.7 EX:1.7
Drive type Chain / belt		Belt	·	Belt and g	ear	Belt	
, pu	Width / pitch	19.1/9.525		Belt: 26.7		25,4/8	

Gear: 14/1.9 module

RH, LH...hydroelastic

FR.RR...elastomeric

M/T: 138, w/oil cooler 139

A/T: 130

91

4

170

Elastomeric

on1

87

Elastomeric

M/T:119, A/T:111

4

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

[&]quot; Finished state.

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

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Coolea Basastatta			
Engine Description Engine Code	4A-FE, 1.587L	5S-FE, 2.164L	3S-GTE, 1.998L
		L	

Model Year

Engine - Valve System

Hydraulic lifte	rs (std., opt., NA)	NA	
Valves	Number intake / exhaust	8/8	
	Head O.D. Intake / exhaust	30/24.5	32.0/27.0 33.5/29.0

Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))*	Low alloy steel.	0.46 Alloy steel, 0.69	Forged steel, 0.77
Length (axes & to €) mm	122.0	138.0	138.0

Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]"		Cast iron, 10.8	Alloy steel, 19.4	Forged steel, 18.6
End thrust taken by bearing	ng (no.)	No.3		1 101ged Steel, 10.0
Length & number of main	bearings	489.0, 5	505.0. 5	
Seal (material, one, two	Front	Synthetic rubber,	one piece	
piece design, etc.)	Rear	Synthetic rubber,	one piece	

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	373 at 2000	343 at 2500	275 at 2500
Type oil intake (floating, stationary)	Stationary	1 2 3 3 2 2 3 3	
Oil filter system (full flow, part, other)	Full flow .		
Capacity of c/case, less filter-refill-L (qt.)	3,0	3.7	3.6

Engine - Diesel Information NOT APPLICABLE

Ulesel engine	e manufacturer .	
Glow plug, cu	urrent drain at O°F	
Injector	Туре	
nozzie	Opening pressure [kPa (psi)]	
Pre-chamber	design	
Fuel in-	Manufacturer	
jection pump	Туре	
Fuel injection	pump drive (belt, chain, gear)	
Supplementa	ry vacuum source (type)	
Fuel heater (y	yes/no)	
Water separa (sid., opl.)	tor, description	
Turbo manuta	scturer	
Oil cooler-type oil to ambient	e (oil to engine cootent; air)	
Oil filter		
	e (oil to engine content:	

Engine - Intake System

Turbo charger - manufacturer	NA .	TOYOTA
Super charger - manufacturer	NA.	TOTOTA
Intercooler	***	4.1
15.11.45.		Air cooled, furnace

Finished State

brazed alum.

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METRIC (U.S. Customary)

Engine Description
Engine Code

4A-FE, 1.587L

5S-FE, 2.164L

3S-GTE, 1.998L

Engine - Cooling System

Engine -	Cooling System					
Coolant recov	rery system (std., opt., n.a.)	Std.				
Coolant fill loc	cation (rad., bottle)	Resorvoir tank	Radiator	Radiator and reser-		
Radiator cap	relief valve pressure [kPa (psi)]	88.3	90	voir tank		
Circulation	Type (choke, bypass)	By-pass ,				
thermostat	Starts to open at °C (°F)	82				
	Type (centrifugal, other)	Centrifugal				
	GPM 1000 pump rpm	22.8 L/min.	32 L/min.	36 L/min.		
	Number of pumps	1		<u> </u>		
Water	Drive (V-belt, other)	Timing belt				
pum p	Searing type	Prepacked water	Pump ball bearing			
	Impeller material	Stainless steel	Steel	Stainless steel		
	Housing material	Aluminum alloy		Totalileon Secti		
By-pass recirc	culation (type (inter., ext.)]	External	Internal	External		
Cooling	With heater - L(qt.)	M/T: 5.2. A/T: 5.6	M/T:w/oil cooler 6.3, others 6.2			
system	With air conditioner - L(qt.)	NA	A/T:GT+S 6.6, others 6.1	NA		
capacity	Opt. equipment [specify – L(qt.)]	NA	NA	1 4114		
Water jackets	full length of cyl. (yes, no)	No	No			
Water all arou	nd cylinder (yes, no)	No No				
Water jackets	open at head face (yes, no)	No 1				
. [Std., A/C, HD	Std.				
	Type (cross-flow, etc.)	Vertical flow				
Radiator	Construction (fin & tube mechanical, braze, etc.)	Corrugated fin, soldered				
core	Material, mass [kg (wgt., lbs.)]	Copper-brase, M/T:3.5	Copper-brane, A/T GS-T:4.8	Copper-brass, 4.9		
	Width	699 A/T:5.0 J	699 Others:3.6	699		
	Height	325	325	325		
	Thickness	M/T:16, A/T:32	A/T CS-T:27, Others:16	27		
	Fins per inch	20/in, 17/in	A/T GS-T:3.0, Others:2.25	17/inch		
Radiator end t	tank material	Resin	FRTP	Plastics		
	Std., elec., opt.	Std. Electrical				
	Number of blades & type (flex, solid, material)	4, solid, plastics				
•	Diameter & projected width	300. 88	300	300, 55		
	Ratio (fan to crankshaft rev.)	NA				
Fan	Fan cutout type	Temperature control	led			
	Drive type (direct, remote)	Electric motor				
	RPM at idle (elec.)	1900	2180	2050		
	Motor rating (wattage) (elec.)	80	80	120		
	Motor switch (type & location) (elec.)	Temp. SW. at thermo. Rous.	Temp, switch at radiator			
•	Switch point (lemp., pressure) (elec.)	90°				
	Fan shroud (material)	Resin	Steel			

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Engine Description Engine Code

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Engine - Fuel System	(See supplemental page for detailes of Fuel Injection, Supercharger, Turbocharger, etc. if used)
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Induction type: injection system	carburetor, fuel n, etc.	EFI	EFI with turbo			
Manufacturer		NIPPONDENSO	NIPPONDENSO AISAN			
Carburetor no.	of barrels	NA				
Idle A/F mix.		Preset-not adjustabl	e			
	Point of injection (no.)	4				
Fuel injection	Constant, pulse, flow	Pulse				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Control (electronic, mech.)	Electronic	ectronic			
	System pressure [kPa (psi)]	284	284	250		
Idle spdrpm	Manual	Preset-not adjustable				
(spec. neutral or drive and		800	NA			
propane if	Automatic	Preset-not adjustable				
used)	·	800	NA			
	heat control (exhaust ostatic or fixed)	NA Paper element				
Air cleaner type)					
Fuel filter (type	/location)	Paper element one pcs type at left side of eng. compartment				
	Type (elec. or mech.)	Electric				
Fuel oump	Location (eng., tank)	In-tank				
'P	Pressure range [kPa (psi)]	284	250			
	Flow rate at regulated pressure (L (gai)/hr @ kPa (psi))	Min. 80 L/hr at 284	80 L/hr at 250	Min. 125 L/hr at 32		

Fuel Tank

Capacity (refi	II L (gallons)]	_ 60	68		
Location (des	cribe)	Underside of rear seat floor Underside of trun			
Attachment				Straps	floor
Material & Ma	ass [kg (weight lbs.)]	Steel sheet, 11.3	Steel sheet, 10		
Filler	Location & material	Left quarter panel, chromated steel pipe			
pip e	Connection to tank				
Fuel line (ma	terial)	Steel			
Fuel hose (m	aterial)	Rubber			
Return line (material) Steel					
Vapor line (m	aterial)	Steel			
	Opt., n.a.	NA			
Extended	Capacity (L (gallons))	-			
range tank	Location & material:				
	Attachment	-			
	Opt., n.a.	NA			
	Capacity (L (gallons))	-			
Auxiliary tank	Location & material				
	Attachment	-			
	Selector switch or valve '	_			
	Separate fill	-			

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Engine Description Engine Code

					_			
		5.0	S-FE,	2 16	٨T			
	!		, _ 1 _ ,	2.10	4 1			
4A-FE.	1.587L	Coupe	TIFFE	20016	Liftback	Wide	I3S-GTE	1 9981
		coupe,	PITT	Jack .	PITCOGCK	wide .	0.0,	1.7700

Vehicle Emission Control

	Type (air in modification	jection, engine ns. other)	EFI, ESA, EGR,	O ₂ s, TWC			
		Pump or pulse	NA				
		Driven by	-		_		
	Air Injection	Air distribution (head, manifold, etc.)	-				
		Point of entry					
Exhaust	Exhaust Gas	Type (controlled flow, open orifice, other)	Controlled flow				
Control	Recircula- tion	Exhaust source Point of exhaust injection (spacer, carburetor, manifold, other)	Cylinder head port Cylinder head No.4 port Intake manifold Intake manifold				
		Туре	TWC				
		Number of	1	Fed:1. Cal:2	2		
	Çatalytic	Location(s)	Underfloor	Fed;Exhaust manifold Cal;Ex. manifold, front underfloor	Exhaust manifold Front underfloor		
		Volume (L (in³))	1,652	1.312(Ex.) 500(underfloor)	1.312, 500		
	Converter	Substrate type	Monolith .				
		Noble metal type	Pt/Rh	Pt/Rh	Pt/Rh		
		Noble metal (g/unit) concentration (g/cm³)		Fed;1.81/0.49	1.81/0.49		
	<u> </u>	concentration (grain)	Cal;2.27/0.45	Cal;1.81/0.49 + 0.36/0.067	0.36/0.067		
	Type (ventilates to atmosphere, induction system, other)		Induction system, closed type	Induction system, sealed type			
Crankcase Emission		rce (manifold rburetor, other)	Manifold vacuum				
Control	Discharges manifold, o		Intake manifold				
	Air Inlet (br	eather cap, other)	Throttle body NA				
Evapora- ,	Vapor vente		Canister				
tive Emission	(crankcase canister, of		NΛ				
Control	Vapor stora	ge provision	Charcoal canis	ter			
Electronic	Closed loor	(yes/no)	Yes				
system	Open loop	(yes/no)	Ńo				

Engine - Exhaust System

Type (single dual, other)	e, single with cross-over.	Fed.; semidual Cal.; single	l Single .			
Muffler no. I separate res	& type (reverse flow, straight thru, sonator) Material & Mass [kg (weight lbs)]	Reverse flow, 1 5.8	Reverse flow, Reverse flow, Reverse flow, 1 6.2 1. 6.6 5.2			
Resonator no. & type		Straight flow, 1				
	Branch o.d., wall thickness	Fed.; 38.1,1.5 CA:NA	NA			
Exhaust pipe	Main o.d., wall thickness	42.7. 1.5	48.6. 1.5	65.0, 2.0:65.0, 1.5:50.5, 1		
	Material & Mass [kg (weight lbs)]	Fed.:1.7_CA:1.8	Fed.:1.6. CA:2.4	1.3: 0.7: 2.5		
Inter-	o.d. & wall thickness	42.7. 2.0/1.2	48.6. 2.0/1.2	60.5. 1.5		
mediate pipe	Material & Mass [kg (weight lbs)]	1.6/0.5	Fed.:3.5. CA:2.3	1.8		
Tail	o.d. & wall thickness	48.6.1.2	54.0.1.0 42.7.1.0	42.7, 1.2;54, 1.5		
pipe	Material & Mass (kg (weight fbs))	0.2	0.2	0.2:0.1		

All material is stainless steel

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	J.S. Customary)		- 2 26/2	3S-GTE, 1.998L			
ine Descri		4A-FE, 1.587L	5S-FE, 2.164L	35-G1E, 1.7702			
ine Code							
	ions/Transaxie (Std.,	Opt., N.A.)					
uai 3-speed	i (manufacturer/country)	NA					
ual 4-speet	d (manufacturer/country)	NA TOYOTA MOTOR CORPOR	ATION/JAPAN				
nual 5-spee	d (manufacturer/country)						
omatic (mai	nufacturer/country)	NA AISIN AW/JAPAN					
omatic over	drive (manufacturer/country)	AISIN AW/JAPAN					
	ansmission/Transax	le					
		5		3,384			
mber of ion	ward speeds	3.166	3.285	1.913			
	1st 2nd	1.904	2,041	1.333			
	3rd	1.310	1.322	0.972			
ar	4th	0.969	1.028	0.731			
atios -	5th	0.815	0,820	3,545			
		3.250	3.153				
Reverse nchronous meshing (specify gears)		All forward speeds	All forward speeds				
ynchronous hift lever loc		Floor	Aluminum die cast, 42.8	Alum. die cast, 91.2 w/transfe			
hin lever loc	mat'l. & mass kg (lbs)*	Aluminum die cast, 37.3					
rans. Case I	Capacity (L (pt.))	2,6	2.6				
ubricant	Type recommended	API GL-4	API GL-5				
		n)					
Clutch (Manual Transmission						
Clutch man	Manual Transmission	AISIN SEIKI					
Clutch man	ufacturer (dry, wet; single, multiple disc	AISIN SEIKI Dry, single disc					
Clutch man	ufacturer (dry, wet; single, multiple disc	AISIN SEIKI Dry, single disc Hydraulic	1100	130			
Clutch man Clutch type Linkage (hy	ufacturer (dry, wet; single, multiple discondraukic, cable, rod, lever, other	AISIN SEIKI Dry, single disc Hydraulic 110	100				
Clutch man Clutch type Linkage (hy Max. pedal spring load	dracturer (dry, wet; single, multiple discrete	AISIN SEIKI Dry, single disc Hydraulic 110 NA					
Clutch man Clutch type Linkage (hy Max. pedal spring load	dracturer (dry, wet; single, multiple discrete	AISIN SEIKI Dry, single disc Hydraulic 110 NA None	100 Turn-over spring.	25%			
Clutch man Clutch type Linkage (h) Max. pedal spring load Assist (spri Type press	ufacturer (dry, wet; single, multiple discretaring, cable, rod, lever, othe effort (nom., new) N (lbs) Released ing, power/percent, nominal) sure plate springs	AISIN SEIKI Dry, single disc Hydraulic 110 NA None Diaghragm spring	Turn-over spring.				
Clutch man Clutch type Linkage (h) Max. pedal spring load Assist (spri Type press	ufacturer (dry, wet; single, multiple discrete	AISIN SEIKI Dry, single disc Hydraulic 110 NA None Diaghragm spring 3900	Turn-over spring.	25%			
Clutch man Clutch type Linkage (h) Max. pedal spring load Assist (spri Type press	ufacturer (dry, wet; single, multiple discrete	AISIN SEIKI Dry, single disc Hydraulic 110 NA None Diaghragm spring 3900 Cooling NISSHINBO	Turn-over spring.	25%			
Clutch man Clutch type Linkage (hy Max. pedal spring load Assist (spri Type press	ufacturer (dry, wet; single, multiple discrete	AISIN SEIKI Dry, single disc Hydraulic 110 NA None Diaghragm spring 3900 Cooling NISSHINBO	Turn-over spring.	7350			
Clutch man Clutch type Linkage (hy Max. pedal spring load Assist (spri Type press	dracturer (dry, wet; single, multiple discrete	AISIN SEIKI Dry, single disc Hydraulic 110 NA None Diaghragm spring 3900 Coding NISSHINBO	Turn-over spring. 4900 AISIN CHEMICAL	25% 7350 236x150			
Clutch man Clutch type Linkage (hy Max. pedal spring load Assist (spri Type press	ufacturer {dry, wet; single, multiple discrete	AISIN SEIKI Dry, single disc Hydraulic 110 NA None Diaghragm spring 3900 Coding NISSHINBO Aruction Semimold 16 Dominal 212x140	Turn-over spring. 4900 AISIN CHEMICAL 224x150	7350			
Clutch man Clutch type Linkage (hy Max. pedal spring load Assist (spri Type press	dracturer (dry, wet; single, multiple discrete	AISIN SEIKI Dry, single disc Hydraulic 110 NA None Diaghragm spring 3900 Coding NISSHINBO Aruction Semimold 16 Dominal 212x140	Turn-over spring. 4900 AISIN CHEMICAL	25% 7350 236x150			
Clutch man Clutch type Linkage (hy Max. pedal spring load Assist (spri	ufacturer {dry, wet; single, multiple discrete	AISIN SEIKI Dry, single disc Hydraulic 110 NA None Diaghragm spring 3900 Hooding NISSHINBO Semimold 16 Hoominst) 212x140 Hy 199	Turn-over spring. 4900 AISIN CHEMICAL 224x150	25% 7350 236x150			

1.6/1.6

Wave spring segments

Self-centering ball

Rivet depth (pressure plate side/fly wheel side)

Release bearing type & method lub.

Engagement cushion method

bearing, permanent lubrication

Single stage, torsion spring Multi-stage, torsion spring, with friction washer friction washer

Torsional damping method, springs, hysteresis "Single stage, torsion springs Includes shift linkage, lubricant, and clutch housing. If other specify.

TOYOTA CELICA Vehicle Line **MVMA Specifications** 1991 Issued July, Model Year Revised (*) **METRIC (U.S. Customary)** 5S-FE, 2.164 4A-FE, 1.587L **Engine Description** GT Engine Code GT-S**Automatic Transmission/Transaxle** Trade Name A243L A241L A241E 2-mode 4 speed, 4 speed, hydraulic control, planetary electronic, plane-Type and special features (déscribe) gear train tary gear train Location (column, floor, other) Floor Gear P-R-N-D-2-L Ltr./No. designation (e.g. PRND21) selector stays in "P" without depressing the brake Yes, the selector Shift interlock (yes, no, describe) 4.005 3.643 peda 2nd 2.208 2.008 Gear ratios <u>1.4</u>25 3rd 1.296 4th 0.981 0.892 3.272 Reverse 2.977 117 with 85% 118 with 85% Max. upshift speed - drive range [km/h (mph)] 137 throttle opening throttle opening 97 with 85% 99 with 85% Max. kickdown speed - drive range [km/h (mph)] 131 throttle opening throttle opening Min. overdrive speed [km/h (mph)] 24 21 21 3 Number of elements 2.5 Max. ratio at stall 2.0 Torque converter Type of cooling (air, liquid) Liquid 230 241 Nominal diameter 241 Capacity factor "K"* NA Capacity [refilt L(pt.)] 3.3 Lubricant ATF "DEXRON II" Type recommended Std. liquid in radiator Oil cooler (std., opt., N.A., internal, external, air, liquid) Transmission mass [kg (lbs)] & case material ** 77, alum, 78, <u>alum,</u> With 3S-GTE, 1.998L only All Wheel / 4 Wheel Drive Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.) Full-time (gear drive) Manufacturer and model TOYOTA, EF2AV

Integral to transaxle

Bevel gears with viscous coupling

NA

NA

50/50

Type and location

Type (bevel, planetary, w or w/o

viscous bias, torsen, etc.)

Torque split (% front/rear)

Transfer case

Center

differential

Low-range gear ratio

System disconnect (describe)

^{*} Input speed + \(\sqrt{lorque}

^{**} Dry weight including torque converter. If other, specify,

Vehicle Line TOYOTA CELICA **MVMA Specifications** 190 Revised (*) Model Year 1991 Issued July. **METRIC (U.S. Customary)** 3S-GTE 4A-FE 5S-FE **Engine Description** 5M/T 5M/T 4A/T 5M/T 4A/T 5M/T **Engine Code Axie Ratio and Tooth Combinations** (See 'Power Teams' for axle ratio usage) 4.312 3.034 3.736 3.944 4,285 Effective final drive ratio (or overall top gear ratio) NA Transfer ratio and method (chain, gear, etc.) NA Ring gear o.d. Front 14 29 19 16 18 drive No. of unit teeth 88 71 71 60 69 Ring gear Front Drive Unit Integral to trans. Description (integral to trans., etc.) Viscous coupl. Limited slip differential (type) NA Helical gear Drive pinion NA Offset No. of differential pinions 2 Adjustment (shim, etc.) NA Pinion / differential Bearing adjustment NA Double row angular contact ball bearing Driving wheel bearing (type) <u>Included in transaxle</u> Capacity (L (pt.)) Lubricant ATF 'DEXRON API GL-5 Type recommended API GL-4 AT180-a11 ST184-a11 ST185 Axle Shafts - Front Wheel Drive TMC. TMC Manufacturer and number used Left Solid Type (straight, solid bar, tubular, etc.) Right Solid 28.5x337 22,1x354,1 23,2x362 Left Manual transaxio 22.1x668.6 23.2x362 28.5x337 Right Outer diam, x length* x wall 22.1x354.1 23.2x362 NA Left Automatic transaxie Right 22.1x668.6 23.2x362 NA **thickness** Left NA Optional transaxle Right NA Туре NA Slip Number of teeth Spline o.d. TMC Inner Make and mfg. no. Outer Number used 4=2 each shaft Inner Cross groove <u>Tripod. plunge</u> Universal Type, size, plunge joints Outer Rzeppa, fixed Attach (u-bolt, clamp, etc) Inner=spline & snapring Outer=spline and nut Type (plain, anti-friction) NA NA Ball bearing Bearing Lubrication Prepack (fitting, prepack) Drive taken through (torque tube, MacPherson struts, arms arms or springs)

Engine mounting system

Torque taken through (torque tube,

^{*} Centerline to centerline of universal joints, or to centerline of attachment. Page 10 A MVMA-91 (Front Wheel Drive)

					Ţ.		
MVMA	Specification	ns	Vehicle Line TOYOTA CELICA				
101 4 (013:4	орсотовно		Model Year 1991 Issued J	uly, '90 Revised (*)			
METRIC	(U.S. Customary)	r					
Engine Desc Engine Code	ingine Description ingine Code		ST185				
Axle Ratio	and Tooth Combin	ations	See 'Power Teams' for axie ratio usage)				
Axle ratio (or o	overall top gear ratio)						
Ring gear o.d.							
No. of teeth	Pinion Ring gear						
D A-la				***	-		
Rear Axle	· viiit	 -	Underfloor integral				
Description			Underfloor, integral Opt="Torsen"				
Limited slip dil	Limited slip differential (type)						
Drive pinion			Hypoid gear 31.75				
Offsei							
No. of differen			2, Opt=6 worm wheels		· · · ·		
Pinion / differe	Pinion / differential Adjustment (shim, etc.)		Shim/shim Collapsible tube/shim				
Bearing adjustment		stment		boaring	<u> </u>		
Driving wheel	Oriving wheel bearing (type)		Double row angular contact ball	t bearing .			
Lubricant	Capacity [L (pt.)]		1.1				
	Type recommended		API_GL-5		·		
	<u></u>						
		_					
Propeller	Shaft - Rear Whe	el Drive		· · · · · · · · · · · · · · · · · · ·			
	t tube, tube-in-tube, nal damper, etc.)		TMC, No.1=tube-in-tube, No.2 &	3=straight tube			
	Manual 3-speed transm	ission	NA				
0.4	Manual 4-speed transm	ission	NA				
Outer diam. x length" x wall	Manual 5-speed transm	ission	No.1=75x585x1.6, No.2=65x582x1.6, No.3=65x671x1.6				
thickness	Overdrive		NA				
	Automatic transmission		NA				
Inter-	Type (plain, anti-friction	1)	Ball bearing				
mediate bearing	Lubrication (fitting, prep		Prepack				
2000-174	Туре	_ '	Involute spline				
Slip	Number of teeth		21				
yoke .	Spline o.d.		27.64				

No.1, 2 & 4=CROSS, No.3=CROSS GROOVE

Front

Rear

Make and mfg. no.

Type (ball and trunnion, cross)

Rear attach (u-bot), clamp, etc)

Type (plain, anti-Inction)

Lubrication (fitting, prepack)

Number used

Bearing

Drive taken through (lorque tube, arms or springs)

Torque taken through (torque tube, arms or springs)

Universal

joints

TMC

TMC 4

Bolts and nuts

Arms and strut

Arms and strut

Prepack

Needle roller bearing

^{*} Centerline to centerline of universal joints, or to centerline of rear attachment. Page 10 B

MVMA-91

Vehicle Line	TOYOTA	CELICA
Model Year	<u> 1991 </u>	Issued _Inly: 190 Revised (*) _

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

				
Coupe		Liftback	Liftback Wid	e
1.587L	2.164L		:	1.998L

Suspension - General Including Electronic Controls

	Sta	ndard/optional/not avail.	NA ·
Car Jev e li ng	Ma	nual/automatic control	-
	Туг	e (air/hydraulic)	_
	Pro	nary/assist spring	-
· · · · · · · · · · · · · · · · · · ·	Re	ar only/4 wheel leveling	-
	Sin	gle/dual rate spring	
	Sin	gle/dual ride heights	
	Pro	vision for jacking	-
	Sta	indard/option/not avail.	NA
	Ma	nual/automatic control	-
	Nu	mber of damping rates	-
ihock bsorber	Typ	oe of actuation (manual/ ctric motor/air, etc.)	-
amping ontrols	5	Lateral acceleration	
	ņ	Deceleration	
	ļ	Acceleration	_
	3	Road surface	-
· · · · · · ·	Ту	X8	Fr: Tube, double acting, Rr: Tube, double acting
hock Dso rber	Ma	ke .	Fr:TOYOTA, Rr:All-Trac:KAYABA, Others:TOKICO or KAYABA.
ront & ear)	Pis	ton diameter	Fr:32.0. Rr:32.0
,	Ro	diameter	Fr:22.0, Rr:22.0

Suspension - Front

Type and description		MacPherson	n strut	•				
T	Full jounce	70						
Travel*	Full rebound	90						
Spring	Type (coil, leaf, other) & material	Coil. alloy steel						
	Insulators (type & material)	Upper and lower, rubber						
	Size (coil design height & i.d.)	See SUPPLI	EMENTAL PAGE					
	Spring rate [N/mm (lb./in.)]	19.6	20.6	26.4	27.4			
	Rate at wheel [N/mm (lb./in.)]	18.2	19.2	24.6	25.6			
Stablizer	Type (link, linkless, frameless)	Link	Material; carbo	n steel				
	Material & bar diameter	MT:24, AT:25	25	MT:26.AT:25	26			

Suspension - Rear

Type and description		Strut					
Travel*	Full jo	unce	85				
: raver	Full re	bound	100				
	Туре	(coil, leaf, other) & material	Coil, al	loy steel			
	Size (length x width, coil design height & i.d.)		See SUPPLEMENTAL PAGE				
Spring	Spring rate [N/mm (tb./in.)]		19.6	20.6	23.5	27.5	
	Rate at wheel [N/mm (lb./in.)]		18.7	19.6	22.2	25.7	
	Insula	tors (type & material)	Upper and lower, rubber				
	If	No. of leaves	NA				
	lesf	Shackle (comp. or tens.)					
Stabilizer	er Type (link, linkless, frameless)		Link, Material; carbon steel				
Material & bar diameter		ial & bar diameter	MT:14.AT	:16 MT:16.AT:17	17	18	
Track bar (ty	pe)		NA		-		

^{*} Define load condition:

MVMA Specifications METRIC (U.S. Customary) SUPPLEMENTAL PAGE

Vehicle Line	TOYOTA	CELICA				
Model Year	1991	Issued	July,	'90	Revised (•)	

Spring Size (coil design height-i.d.)

Body	Engine displ.	Trans	-Front spring	Rear spring
Coupe	1.587L	M/T	346.7x(137.6-117.6), 346.7x(137.4-117.4)	320.0x(89.0-118.6)
		A/T	354.2x(137.5-117.5), 354.2x(137.3-117.3)	320.0x(88.6-118.6)
	2.164L	M/T	352.2x(137.3-117.3), 352x(137.1-117.1)	319.5x(89.0-118.4)
		A/T	359.7x(137.2-117.2), 359.5x(137-117),	319.5x(88.4-118.4)
Liftback	2.164L	M/T	352.2x(137.3-117.3), 352x(137.1-117.1)	326.5x(89.0-118.3)
		A/T	359.7x(137.2-117.2), 359.5x(137-117)	326.5x(88.3-118.3)
Liftback Wide	2.164L	M/T	311.2x(137-117), 311.0x(136.8-116.8)	317.5x(89.0-117.9)
	,	A/T	316.7x(136.9-116.9), 316.5x(136.7-116.7)	317.5x(87.9-117.9)
	1.998L	M/T	332.7×(136.4-116.4)	312.5x(89.0-117.3)
				312.5x(87.3-117.3)

Vehicle Line <u>TÔYÔTA CELICA</u> 1991 190 Revised (*) issued July,

METRIC (U.S. Customary)

Body Type /				(A RE 1 5077	<u> </u>	FC DD	2 1//2	20.000	
Engine Disp	lacement			4A-FE, 1.5871			2.164L	3S-GTE	
Brakes –	Condoo			Coupe	Coupe,	Littback	Liftback Wide	Liftback Wid	
DISKUS -	Service			1					
Description				Diagonal cir					
Manufacturer		Front (disc or drun) Std.	AKEBONO, dis					
Otake làbe (2)	td., opt., n.a.)	Rear (disc or drum) Std.	HOSEI, drum,	std.		AISIN SEIKI,	disc, std.	
Valving type (proportion, d	elay, metering, other)		P&B valve					
Power brake	(std., opt., n.a	i.)		Std.	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
Booster type	(remote, integ	ral, vac., hyd., etc.)		Integral, va	acuum				
	Source (in	nline, pump, etc.)		Inline					
Vacuum	Reservoi	(volume in.3)		NA					
	Pump-typ	e (elec, gear driven, bel	driven)	ŅA					
Traction		nal speed range		NA .					
control		ine intervention (electro	nic, mech.)	NA					
		ar (std., opt., n.a.)		NA NA		·	Opt, front an	d rear	
	Manufact			-			NIPPONDENSO		
Anti-lock		ctronic, mech.)		-			Electronic		
device .		ensors or circuits		-			5	·	
		inti-lock hydraulic circuit	<u> </u>	-			4		
	Integral o	r add-on system	·	-			Integral		
		ol (yes, no)		No					
		ower source (elec., vac. mir		-		Electric motor		r `	
Effective area			(F/R)	140/268	184/26		184/128		
	area (cm²(in.²	 	·	168/268	193/268		193/128		
Swept area [c	:m²(in.²)]***(F			1084/440	1303/4	40	1303/1021	1452/1119	
		king diameter	F/R	238/-	255/-		255/269	277/288	
Rotor		Inner working diameter		142/-	147/-		147/193	147/193	
	Thickness	· · · · · · · · · · · · · · · · · · ·	F/R	22/-			22/10 25/10		
	Material 8	type (vented/solid)	F/R	Cast iron, vented/-			Cast iron, vent/solid		
Drum	Diameter	& width	F/R	_/200,35 NA					
	Type and	material	F/R	-/cast iron -					
Wheel cylinde	er bore		(F/R)	54.0/19.05	57,22/	19.05	<u>57,22/31.75</u>	57.22/34.93	
Master cylinde		ore/stroke	F/R	22.22/14/22.2/14	23.81/14/2	3.81/14	23.81/14/23.81/14 opt	(ABS) 25.4/14/25.4/	
edal arc ratio	0			4.11					
ine pressure	at 445 N(100	lb.) pedal load [kPa (ps)) MPa	12.7	13.3		13.3.ABS:11.9	12.4,ABS:10	
ining clearan	rce .	<u> </u>	F/R	Self adjust/	self ad	just			
	1.	Bonded or riveted (riv	rets/seg.)	Bonded					
	1	Rivet size							
		Manufacturer		AKEBONO, AIS	SIN CHEM	ICAL NIS	SHINBO, SUMITO	MO	
	Front	Lining code****		NA					
	wheel	Material		Molded resir	1				
		Primary or	out-board	103x44x10 104x51x10					
		Size Secondary	or in-board	103x44x10 104x51x10					
Brake		Shoe thickness (no li	ning)	5.5					
ning		Bonded or riveted (ri	vets/seg.)	Bonded					
	1	Manufacturer		AKEBONO, AIS	IN CHEM	ICAL, NIS	SHINBO, SUMITO	MO	
	Rear	Lining code****		NA					
	wheel	Material *		Molded resir	1				
	1	Primary or	out-board	192x35x4			95x34x10		
		Size Secondary	or in-board	192x35x4			95x34x10		
	1	Shoe thickness (no li	ning)	1.6			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 Pir2 for each brake.)

**** Size for drum brakes includes length x width x thickness.

***** Manufacturer t.D., catalog for formulation designation and coefficient of friction classification.

Vehicle Line <u>TOYOTA CELICA</u>

Model Year 1991 Issued July, '90 Revised (*)

METRIC	(U.S.	Customary	Ì
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Body Type And/Or Engine Displacement

Coupe	Coupe,	Liftback	Liftback	Wide	
1.587L	2.164L				1.998L

Tires And Wheels (Standard)

Tires	Size (load range,	ply)	165SR13	185/65R14 85S	215/5QR15 88	3 V	
	Type (bias, radia	l, steel, nylon, etc.)	Radial, steel	Radial steel	Radial, stee	el	
	Inflation pres- sure (cold) for	Front (kPa (psi))	210(30)	220(32)	210(30)	220(32)	
	recommended max. vehicle load	Rear (kPa (psi))	200(29)	200(29)	190(28)	210(30)	
	Rev./mile-at 70 km/h (45 mph)		895	895	889	1	
	Type & material		Steel	Steel	Aluminum		
	Rim (size & flange type)		13x5J	14x6JJ	15x6 ¹ /2JJ	15x6 ¹ /2JJ	
Vheels	Wheel offset		45	45	39		
		Type (bolt or stud)	Stud	Stud	Stud		
	Attachment	Circle diameter	100	100	100		
	<u> </u>	Number & size	4-M12x1.5	5-M12x1.5	5-M12x1.5	5-M12x1.5	
	Tire and wheel		T125/70D14	185/65R14 85S	215/50R15 88	BV	
pare			14x4T	14x6JJ	15x6 ¹ /2JJ		
· F =	Storage position & location (describe)		Coupe;flat in				
			Liftback;flat	in cargo floor	well		

Tires And Wheels (Optional)

Tire size (load range, ply)	185/70R13 85S	P185/65R14	NA	
radial, steel, nylon, etc.)	Radial, steel	Radial, steel		
Wheel (type & material)	Steel	Steel		
Rim (size, flange type and offset)	13x5.5J, 45	14x6JJ, 45		
Tire size (load range, ply)	P185/70R13	185/65R14 85S		
Type (bias, radial, steel, nylon, etc.)	Radial, steel	Radial, steel		
Wheel (type & material)	Steel	Aluminum		
Rim (size, flange type and offset)	13x5.5J, 45	14x6JJ, 45		
Tire size (load range, ply)	185/70R13 85S	P185/65R14		
Type (bias, radial, steel, nylon, etc.)	Radial, steel	Radial, steel		
Wheel (type & material)	Aluminum	Aluminum		
Rim (size, flange type and offset)	_13x5.5JJ, 45	14x6JJ, 45		
Tire size (load range, ply)	P185/70R13			
Type (bias, radial, steel, nylon, etc.)	Radial, steel			
Wheel (type & material)	Aluminum			
Rim (size, flange type and offset)	13x5.5JJ, 45			
Spare tire and wheel size	27.1	374		m125 (3001)
(if contiguration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)	NA NA	NA .	NA	T135/70D16 16x4T

Brakes - Parking

Type of control	ype of control Hand operated			
Location of control		Floor		
Operates on		Rear service brakes	Exclusive rear brakes	
If separate from service brakes	Type (internal or external)	-	Drum in disc	
	Drum diameter		170	
	Lining size (length x width x thickness)	-	163x30x2	

Vehicle Line	TOYOTA C	ELI <u>CA</u>			
Model Year _	1991	Issued July,	190 Revised (·)	_

METRIC (U.S. Customary)

Coupe, Liftback Liftback Wide Coupe 1.998L Body Type And/Or Engine Displacement 2.164L 1.587L

lanual (std., 0	pt., n.a.)			NA		
ower (std., or	ol., n.a.)			Std.		
Adjustable 1		Туре		Not adj. Tilt Tilt Auto	o tilt	Auto tilt
looring wheel		Manufac	turer	TOYOTA		
ilt, telescope,	otner)	(std., opt	., n.a.)	Std. Opt. Std. Opt	• .	Std.
Vheel diamete	er**	Manual				
W9) SAE J11	00	Power		380		
	Outside	Wall to v	/all (l. & r.)	11.7	<u></u>	<u> </u>
uming	front	Curb to	curb (l. & r.)	11.0		
iameter 1 (ft.)	Inside	Wall to v	/8lf (l. & r.)	6,6	·····	
	rear	Curb to	curb (l. & r.)	6,8	1	
crub Radius*	· 			8	14	
		Туре		NA		·
	Gear	Manufac				
lanual	,	Ratios	Gear			·
	Overall					
	No. wheel turns (stop to stop)					
	Type (coaxial, elec., hyd., etc.)			Integral, hydraulic		·
	Manufacturer			TOYOTA		
ower		Туре		Rack & pinion	<u></u>	
	Gear	Ratios	Gear	36.9		
	Dump (st	Overati		16.8 V-belt		
	Pump (drive) No. wheel turns (stop to stop)		on to ston)	2.73		
	Type	10113 (50	OP (O SIOP)	Tie rod attached to knuc	kle	
Location (front or rear of wheels, other)		nar -	Front of wheels			
	Tie rods (one or tw	0)	Two		
		n at camb		14°10'	14°35'	
		Upper		Ball bearing		
Steering sxis	Bearings	Lower		Ball joint		
=	(lype)	Thrust				

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

"See Page 22.

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

Vehicle Line	TOYOTA CELICA	
Model Year _	1991 Issued July, '90 Revised (*)	_

Сопре	Liftback	Liftb.	ack Wide
ST, GT	GT	GT−S	All-trac

Wheel Alignment

	Service	Caster (deg.)	55'+45'	50'+45'
	checking	Camber (deg.)	-10+45	
		Toe-in outside track-mm (in.)	$0^{\circ}\pm0.2^{\circ}, 0\pm2, (0\pm0.08)$	
Front		Caster (deg.)	55' (trend set)	50' (trend set
wheel at curb mass	Service reset*	Camber (deg.)	-10' (trend set)	
(wt.)		Toe-in - mm (in.)	0°, 0, (0) (adjust)	
Less half	Periodic M.V. in- spection	Caster (deg.)	NA	
capacity		Camber (deg.)	NA	
of fuel		Toe-in - mm (in.)	NA	
	Service	Camber (deg.)	-45'±45'	
Rear	checking	Toe-in outside track-mm (in.)	$0.5^{\circ}\pm0.2^{\circ}, 5\pm2, (0.2\pm0.08)$	
wheel at curb mass	Service	Camber (deg.)	-45' (trend set)	
(wt.)	reset"	Toe-in - mm (in.)	0.5°, 5, (0.2) (adjust)	
ess half apacity	Periodic	Camber (deg.)	NA	
of fuel	M.V. in- spection	Toe-in - mm (in.)	NA	

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

 \varnothing Electrical – Instruments and Equipment

Speed-	Type (analog, digital, std., opt.)		Std. analog		-11.		
ometer	Trip odometer (std., opt., n.a.)		Std.		2	· · · · · · · · · · · · · · · · · · ·	
	Standard, optional, not available		NA		· ·		
	Туре	Secondary, opto-electronic	-	 			
	Speedometer	Digital	-				
Head-up display	Status / warning indicators	Turn signals, high beam, low fuel, check gauges	-				
	Brightness Day / night mode, adjustable		_				
EGR maintena	nce indicator		NΛ				
Charge	Туре		Tell-tale,	Voltmeter		Tell-tale	
indicator	Warning device (I	ight, audible)	Light				
Temperature	_		Electronic	analog		····	
indicator	Warning device (light, audible)		NA				
Oil pressure	, Туре		Tell-tale lamp				
indicator	Warning device (I	ight, audible)	Light				
Fuel	Туре		Electric gage, tell-tale lamp				
indicator	Warning device (I	ight, audible)	Light				
	Type (standard)		2 speed, mist		2 speed, ad	just pulse, mis	
Wind- shield	Type (optional)		2 speed, adj. pulse, mist NA				
wiper	Blade length LH/RH		500/450		500/475		
·	Swept area cm²(i	n.²)	6320 6380				
Wind-	Type (standard)		Electric motor				
shield washer	Type (optional)		NA .				
	Fluid level indicator (light, audible)		NΛ				
Rear window w	ow wiper, wiper/washer (std., opt., n.a.)		NA	Opt.		Std.	
Horn	Туре		Electric, vibration				
	Number used		-2				
Other						Turbo boost pressure gage	

			Vel	hicle Line	TOYOT	A CELIC	<u> </u>	100	· · ·
VMA S	Specific	cations	, Mo	del Year	1991	lssue	July,	190 Revised (*	·)
									I3S-GTE,
ETRIC (U.S. Customary)		a. y,	4A-FE, 1	.587L		1	S-FE, 2		1.998L M/T
		<u> </u> -	M/T		A/T		M/T	A/T	11/1
ine Code		_							_
etrical -	- Supply Sy	/stem				MITHON	DENCHT	SHIN-KOBE,	YUASA
-	Manufacturer		FURUKAWA.	MATSU	JSHLTA.	NT HON-	DENCILL	<u> </u>	55D23L
	Model, std., (o	pt.)	55D23L (3	32C24L)					
Ì	Voltage		127						356
	Amps at 0°F c	old crank	356 (238)	<u> </u>					99
ttery	Minutes-reser	ve capacity	99 (57)						66.
	Amps/hrs20	hr. rate	60 (40)				rmant		
	Location		Left fro	nt of	engine	Compari	LINGIA		
	Manufacturer		NIPPONDE	NSO				12V-80A	
•	Rating (idle/m	ax. rpm)	<u> 12V-70A</u>		00	2.5	4		2.26
	Ratio (alt. cra		2.36	1 2.	08		<u> </u>		
emator	Output at idle		NA					12V-90A	
	Optional (type	e & rating)	12V-80A						
guiator	Туре		IC in al	ternat	0.				
ectrical	- Starting		NIPPONDE	ENSO					
otor	Current drain	Current drain*F		NA 1.4. Opt:1.0 1.6. Opt:1.0					
	Power rating	[kw (hp)]		<u> </u>					
	Engagemen	type	Shift						
Aotor inve	Pinion enga- from (front,	ges rear)	From re	ar					
Electrica	l – Ignition								
	Electronic (std., opt., n.a.)	Std.						
Туре	Other (spec	city)	NIPPONDENSO						
	Manufactur	er							
Cil	Model	<u>, , , , , , , , , , , , , , , , , , , </u>	-						
Cail	Current	Engine stopped - A	<u> </u>			0.8			8
		Engine Idling - A	0.7	DENICO	- NCV				
	Manufactu	rer	NIPPONI	DENSU_	DOSEV	K16		BKR5EYA11	PK20R8 c
•	Model		016R-U	or bu	PROBL.				BKR6EP8
Spark	Thread (m		14						
plug	Tightening	torque (N-m (lb, ft))	17.7						
	Gap]. _						
Number per cylinder		1	DENICO						
Distributor Manufacturer		NIPPON	DENSO.						
DISTRIBUTOR	Model		NA						
Electric	al – Suppi	ession							
	••		Distri	butor	rotor;	Flame High r	sprayed esistan	rotor .ce	
Locations	∆ type		Spark	plug;	High r	esistan	ce		

MVMA Specifications		ications	Vehicle Line TOYOTA CELIC				
	METRIC (U.S. Customary) Body Type		. Model Year 1991 Issued July, '90 Revised (+)				
Body Type			Coupe	Liftback, Liftback Wide			
Body							
Structure			Monocoque				
Bumper system front - rear			Front and rear: Fascia, energy absorber f	oam and reinforcement			
Anti-corrosion treatment			Extensive use of galvanealed steel sheet and PVC sealer, full dip pre-treatment, cathodic ED, PVC undercoat, chipcoat.				
Body - M	iscellaneou	us Information					
Type of finish	(lacquer, enamel		Thermosetting enamel: soli	d colors; amino alkyd, others; acry			
	Material & ma		D	<u>l</u> io			
Hood	Hinge location		Rear				
		rbalance, prop) rol (internal, external)	L L U D				
	Material & ma		Internal	NA NA			
Trunk		rbalance, other)	Gas props				
lid		e control (elec., mech., n.a.)	Mechanical				
~	Material & r		NA NA				
Hatch-	1	terbalance, other)	- MA	Gas props			
back lid		e control (elec., mech., n.a.)		Mechanical			
	Material & ma		NA	Hechanical			
Tailgate	Type (drop, li		-				
Internal release control (elec., m			1)				
F			NA				
Vent window control (crank, friction, pivot, power)		Rear	NA				
Window regulator type		Front	Arms and sector gear	·			
Window regulator type (cable, tape, flex drive, etc.)		Rear	NA				
		Front	Separate, panel frame, spr	ing, foam pad			
Seat cushion to (e.g., 60/40 but		Rear	Bench, wire frame, foam pa				
wire, foam, etc		3rd seat	NA				
		Front	Separate, pipeframe, sprin	g, foam pad			
Seat back type (e.g., 60/40, bit		Rear		d, ALL others=split fold down,			
wire, loam, etc		3rd seat	NA	pipe frame, spring, foam pad			

Vehicle Line TOYOTA CELICA

Model Year 1991 | Issued July, 190 | Revised (*)

Rade	T
DOGY	IVDE

Coupe	Liftback, Liftback Wide

Restraint System

Seating Positi	on		,	Left		Center	Right	
	Type & description (lap & shoulder be	lt.	First seat	Std, lap and shoul- der belt with ELR			Std, lap and shoul- der belt with ELR	
	lap belt, etc.)			Std, lap and shoul- der belt with ELR	-		Std, lap and shoul- der belt with ELR	
	Standard / optional		Third seat	-	_		-	
Type &		First seat	Std, airbag, knee bolster	_		NA		
Passive description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual lap belt)	elt.	Second seat	NA	_		NA ·		
Standard / optional		1	Third seat	-			-	
Glass		SAE Ref. No.						
Windshield gla surface area (c	ss exposed m²(in.²)]	S1	6740					
Side glass exposed surface S2 area (cm²(in.²)) - total 2-sides		6700			6680			
Backlight glass surface area (c	exposed m ² (in. ²)]	S3	6440			7600		
Total glass exp area (cm²(in.²))	osed surface	S4	19880			21020		
Windshield gla	ss (type)		Curved, laminated					
Side glass (type	e)		Curved, tempered					
Backlight glass	(type)		Curved, tempered					
leadlamp	<u> </u>							
escription - se alogen, replac	aled beam, eable bulb, etc.		Seale	Sealed beam, halogen				
Shape			Recta	Rectangular				
Shape	0 0000 0000 0000		2B1					
ρ-beam type (2A1, 2B1,	ļ						
ρ-beam type (2A1, 2B1,		2					
o-beam type (C1, etc. Quantity	2A1, 2B1, IA1, 2A1, 1C1,				····			

Unitized frame

MVMA Specifications		Vehicle Line TOYOTA CELICA Model Year 1991 Issued July, '90 Revised (*)				
METRIC (U.S. Customary)	Model Year Issued Revised (*)				
Body Type						
Convenier	nce Equipment (standard, option	al, n.a.)				
Air conditioning (manual, auto, temp control)		Opt: Manual, for all models Opt: Automatic, for ST104 and ST105 models				
Clock (digital, a	analog)	Std, digital				
Compass / the						
Console (floor,	overhead)	Std, floor console				
Defroster, elec	backlight	Std, electric				
	Diagnostic monitor (integrated, individual)	Na				
	Instrument cluster (list instruments)	Na				
	Keyless entry	Na				
Electronic	Tripminder (avg. spd., fuel)	Na				
	Voice alert (list items)	Na				
	Other	Na				
Fuel door lock	(remote, key, electric)	Std, remote				
	Auto head on / off delay, dimming	NA				
	Cornering	NA				
	Courtesy (map, reading)	Opt with sun roof				
•	Door lock, ignition	Door lock lamp=NA, Ignition key lamp=AT180;NA, others;sed				
	Engine compartment	NA NA				
Lamps	Fog	Opt.				
	Glove compartment	Std.				
	Trunk	Std.				
,	Illuminated entry system (list lamps, activation)	NΛ				
	Other	Dome lamp=std. Door courtesy lamp=std. all except AT180				
		coupe				
	Day / night (auto. man.)	Std.=manual				
Missasa	L.H. (remote, power, heated)	ST=std:direct, opt:power Others=std:power				
Mirrors	R.H. (convex, remote, power, heated)	ST=std:direct, opt:power Others=std:power				
	Visor vanity (RH / LH, illuminated)	ΛΤ180=NΛ, Other model=std, RH only with no lamp				
Navigation sys	siem (describe)	NA				

Parking brake-auto release (warning light)

METRIC (U.S. Customary)

Body Type

Vehicle Line _	TOYOTA	CELICA	A				
Model Year _	1991	Issued	July,	'90 F	levised (•)		_
ST			GT		GT-S	Áll-Trac	

	Deck lid (release, pull down)	NA	,			
	Door lock describe	s (manual, automatic, system)	NA	Std. manual			
	-	2 - 4 - 6 way, etc.	NA -	Opt:4 way, excep	t Liftback GT .		
	Reclining (R.H., L.H.)		NA	<u> </u>			
		Memory (R.H., L.H., preset recline)	NA				
	Seats	Support (lumbar, hip, thigh, etc.)	NA	Lumber and side			
Power equipment		Heated (R.H., L.H., other)	NA				
ефортен	Side wind	lows	NA	Opt.	· Std.		
	Vent wind	lows	-	· · · · · · · · · · · · · · · · · · ·			
	Rear wine	iows	NA				
	Antenna	(location, whip, w / shield, power)	Lil quarter	ip at LH quarter, rear light and power t	rhip ac		
Radio system s	Standard	i	ST: •AM/FM MPX ETR	GT: ·AM/FM MPX ETR	GT-S, All-Trac: •AM/FM MPX ETR, CS		
	Optional	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	-AM/FM MPX ETR, CST -(AM/FM) MPL ETR, CST AF	-AM/FM MPX ETR, CST -(AM/FM) MPX ETR, CST AF -AM/FM MPX ETR, CST, CD, AF	·(AM/FM) MPX ETR, CST AF ·AM/FM MPX ETR, CST CD AF		
	Speaker	(number, location)	Std:4 Opt:6	Std:6 Opt:6, 10	Std:6 Opt:10		
Roof: open ai	r or lixed (Ilip	-up, sliding, "T")	Opt, tilting and	sliding, steel pa	inel		
Speed contro	l device		Opt.		Std.		
Speed warnin	g device (ligh	it, buzzer, etc.)	NA				
Tachometer (rpm)		Std.		<u> </u>		
Telephone sy	stem (describ	e)	NA				
Theft deterrer	nt system		NA				

Trailer Towing

	Yes / No	Yes		
	Std / Opt	Std.		<u> </u>
	Std / Opt	1500 lbs	Class I	
(lbs)	Std / Opt	1500	2000	
(lbs)	Std / Opt	150	200	
	Yes / No	No	*	
		Std / Opt Std / Opt (1bs) Std / Opt (1bs) Std / Opt	Std / Opt Std .	Std/Opt Std.

^{*} Class ! - 2,000 lbs.

TOYOTA CELICA Vehicle Line 1991 Issued July, Model Year

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

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

Body Type	SAE Ref. No.	Coupe	Liftback	Liftback Wide
Width	140. L			
read (front)	W101	1470	· · · · · · · · · · · · · · · · · · ·	1480
Fread (rear)	W102	1435		1445
/ehicle width	W103	1705		1745
lody width at Sg RP (front)	W117	1683.4	-	
/ehicle width (front doors open)	W120	3800		
/ehicle width (rear doors open)	W121	NA NA		
fumble-hame (deg.)	W122	330		
Outside mirror width	W410			
Length				
Wheelbase	L101	2525	· · · · · · · · · · · · · · · · · · ·	
/ehicle length	L103	4470	4410	4420
Overhang (front)	L104	995		
Overhang (rear)	L105	950	890	900
Jpper structure length	L123	2447.5	2658.5	
Rear wheel C/L "X" coordinate	L127	2525		
Helght*				
Passenger distribution (front/rear)	PO1.2.3		**	
runk/cargo load			**	
/ehicle height	H101	1285	1280	1280, All-trac:1285
Cowl point to ground	H114	885		
Deck point to ground	H138	960		960, All-trac:965
Rocker panel-front to ground	H112	165		165, All-trac:170
Rocker panel-rear to ground	H111	175		175, All-trac:180
Windshield slope angle	H122	63.0		
Backlight slope angle	H121	64.0	71.5	
Ground Clearance*				·
Front bumper to ground	H102	215		
Rear bumper to ground	H104	330		
Bumper to ground (front at curb mass (wt.)]	H103	235		235, All-trac:230
Bumper to ground (rear at curb mass (wt.)]	H105	350		=13.
Angle of approach (degrees)	H106	14		M/T:14. A/T & All-t
Angle of departure (degrees)	H107	AT180:18, ST18	0:17 17	17, All-trac:18.5
Ramp breakover angle (degrees)	H147	15		
Axle differential to ground (front/rear)	H153	NA		All-trac(rear):175
Min. running round clearance	H156	130		
Location of min. run. grd. clear.				

^{* *} 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.

		· \/ohic	te Line TOYOTA CE	LICA	
MVMA Specification	ons	· -	1991 1	ssued July, '90 Revi	sed (•)
METRIC (U.S. Customary))	eets for definitions			Liftback Wide
Body Type		Coupe	Liftback	Liftback Wide	All-trac
	SAE				
Front Compartment	Ref. No.				
SgRP front, "X" coordinate	L31	1382	<u></u>		
Effective head room	H61	958, sun roo	£ 927		
Max. eff. leg room (accelerator)	L34	1090			
SgRP to heel point	H30	203			
SgRP to heel point	L53_	901			
Back angle	L40	25			
Hip angle	L42	98			
Knee angle	L44	132			
Foot angle	L46	87			
Design H-point front travel	L17	238			
Normal driving & riding seat track tryl.	L23	238			
Shoulder room	W3	1320			
Hip room	W5	1324	470 1170		1173
* Upper body opening to ground	H50		170 1170		11175
Steering wheel maximum diameter*	W9	380			
Steering wheel angle	H18	19.8			
Accel, hell pt. to steer, whi, cntr	L11				
Accel, heel pt. to steer, whi, cntr	H17				
Undepressed floor covering thickness	H67	15	<u> </u>		nce Point (SoRP) 0 mm
Rear Compartment		Front Compartment Int	mm Upward of Rearmost	ured With The Seating Reference Position.	
SgRP point couple distance	L50	633			872.1. sun roo1
Effective head room	H63	838.3, sun 1	roof=842.1		<u> 872.1. sun roo1</u> 87
Min. effective leg room	L51			<u> </u>	
SgRP (second to heel)	H31		<u></u>		
Knee dearance	L48				1251
Shoulder room	W4	1249			1217
Hip room	W6	1212			
* Upper body opening to ground	H51		<u> </u>		
Back angle	L41	27			

Depressed floor covering thickness

rnddade combaraniere				
		1200	264	11.59
Usable luggage capacity (L (cu. ft.)]	V1	1200		0.61
		1972	<u></u>	1831
- Littover height	H195	0.32	9.19	

Interior Volumes (FPA Classification)

IUIGUOL AOIRMAS (ELY CIRES	incurion,	
Vehicle class	Subcompact	car
Interior volume index (cu. ft.)**	85.4	88.8
Trunk / cargo index (cu. ft.)	10	14.6

^{*} See page 14.

Back angle

Hip angle

Knee angle

Foot angle

75

56

98

11.5

L43

L45

L47

H73

All linear dimensions are in millimeters (inches).

^{**} Includes passenger and trunk / cargo index - see definition page 32.

^{***} EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specification	ons		YOTA CELICA	100 -
METRIC (U.S. Customary)		Model Year1	991 Issued <u>Ju</u>	1y . 190 Revised (•)
Vehicle Dimensions See	, Key She	ets for definitions		
Sody Type		Liftback	Li	ftback Wide
body Type		GT	GT-S	All-Trac
Station Wagon - Third Seat	SAE Ref. No.	NOT APPLICABLE		•
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	L88			
Hip angle	L89_			
Knee angle	L90_			
Foot angle	L91			
Station Wagon – Cargo Spa	CO	NOT APPLICABLE		
Cargo length (ands (ropt)	1 200			
	L200		~·	
Cargo length (open second)	L201			
Cargo length (open second) Cargo length (closed front)	L201 L202			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second)	L201 L202 L203			
Cargo length (open front) Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second)	L201 L202 L203 L204			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second)	L201 L202 L203 L204 L205			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse)	L201 L202 L203 L204 L205 W201			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse) Rear opening width at floor	L201 L202 L203 L204 L205			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse) Rear opening width at floor Opening width at belt	L201 L202 L203 L204 L205 W201 W203			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse) Rear opening width at floor Opening width at belt Min. rear opening width above belt	L201 L202 L203 L204 L205 W201 W203 W204			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse) Rear opening width at floor Opening width at belt Min. rear opening width above belt Cargo height	L201 L202 L203 L204 L205 W201 W203 W204 W205			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse) Rear opening width at floor Opening width at belt Min. rear opening width above belt Cargo height Rear opening height	L201 L202 L203 L204 L205 W201 W203 W204 W205 H201 H202			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse) Rear opening width at floor Opening width at belt Min. rear opening width above belt Cargo height Rear opening height Tallgate to ground height	L201 L202 L203 L204 L205 W201 W203 W204 W205 H201			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse) Rear opening width at floor Opening width at belt Min. rear opening width above belt Cargo height Rear opening height Tailgate to ground height Front seat back to load floor height	L201 L202 L203 L204 L205 W201 W203 W204 W205 H201 H202 H250			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse) Rear opening width at floor Opening width at belt Min. rear opening width above belt Cargo height Rear opening height Tailgate to ground height Front seat back to load floor height Cargo volume index [m³(ft.³)]	L201 L202 L203 L204 L205 W201 W203 W204 W205 H201 H202 H250 H197			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse) Rear opening width at floor Opening width at belt Min. rear opening width above belt Cargo height Rear opening height Tailgate to ground height Front seat back to load floor height Cargo volume index [m³(ft.³)] Hidden cargo volume index [m³(ft.³)]	L201 L202 L203 L204 L205 W201 W203 W204 W205 H201 H202 H250 H197 V2			
Cargo length (open second) Cargo length (closed front) Cargo length (closed second) Cargo length at belt (front) Cargo length at belt (second) Cargo width (wheelhouse) Rear opening width at floor Opening width at bott Min. rear opening width above belt Cargo height Rear opening height Tailgate to ground height Front seat back to load floor height Cargo votume index [m³(ft.³)]	L201 L202 L203 L204 L205 W201 W203 W204 W205 H201 H202 H250 H197 V2			

Hidden cargo volume index [m³(tt.³)] V4 0,415

Cargo volume index-rear of 2-seat V11 0,415

Cargo length at floor (front)

Cargo length at floor (second)

Cargo volume index [m³(ft.³)]

Front seatback to load floor height

Second seatback to load floor height

Cargo length at second seatback height

L209

L210

L211

H197

H198

V3

ΝA

942

NA

371.5

504.5

0.699

898,5

419.5

jack-up point.

IAI A IAI W	. op	CCIII	cau	VI.
METRIC	ľU.S.	Custo	marv	/ \

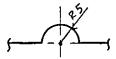
1		-
lody Type	All body	

Vehicle Fiducial Marks

		Define Coordinate Location
Number*		Dalling Coolciniate Excausi.
	1	•
Front 2	2	Center of front semi-circular knotch in rocker panel flange for front

2 Rear

Center of backmost semi-circular knotch in rocker panel flange for rear jack-up point.



Fiducial Mark Number

	W21*	W6+71.8		 		
	L54*	L15+58		 		
Front	H81*	H10-23		 		<u></u>
	H161*	191				
	H163*	171				
			<u> </u>			

				 	· · · · · · · · · · · · · · · · · · ·	
	W22*	W6+72,8	•	 		
	L55°	L30+49	•	 		
Rear	H82*	H10-25		 		
	H162*	200		 		
	H164*	180		 		
						

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

METRIC (U.S. Customary)

TOYOTA CELICA Vehicle Line

1991 Model Year

190 Revised (*) Issued July,

	Vehicle Mass (weight)					% PASS MASS DISTRIBUTION				
		CURB MASS, kg. (lb.)*		SHIPPING		Pass in Front		Pass in Rear		
Code	Model	Front	Rear	Total	MASS kg(lb)***	ETWC**	Front	Rear	Front	Rear
AT180L-BCMSKA	<u> </u>	690	420	1110	1071	P	45	55	20	80
AT180L-BCPSKA		715	420	1135	1096	P	45	55	20	80
ST184L-BCMGKA	GICRE	755	435	1190	1151	Q	45	55	20	80
ST184L-BCPGKA		780	435	1215	1176	R	45	55	20	80
ST184L-BLMGKA C	57 LB	755	445	1200	1161	R	45	55	20	80
ST184L-BLPGKA		775	445	1220	1181	R	45	55	20	80
ST184L-BLMVKA	57-8	775	475	1250	1211	S	45	55	20	80
ST184L-BLPVKA		800	475	1275	1236	S	45	55	20	80
ST185L-BLMVZA		860	600	1460	1415	V	45	55	20	80
							 			
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<u> </u>	<u>i</u>			<u> </u>	1		.1	L	1	1

^{*} 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.

			ETWC	LEGEN	1D		
B COE	= 1000 = 1125 = 1250 = 1375 = 1500	- JK L S	= 2000 = 2125 = 2250 = 2375 = 2500	Q R S T U	= 3000 = 3125 = 3250 = 3375 = 3500	Z - Z - AA - BB - CC	= 4000 = 4250 = 4500 = 4750
F G H	= 1625 = 1750 = 1875	₩ 2 O P	= 2500 = 2625 = 2750 = 2875	W X	= 3500 = 3625 = 3750 = 3875	CC DD EE FF	= 5000 = 5250 = 5500 = 5750

*** Shipping Mass (weight) = Curb Weight Less: full tank fuel mass plus 6 kg

METRIC (U.S. Customary)

Vehicle Line	TOYOTA	CELICA			
Model Year	1991	issued_July,	90	Revised (-)	-

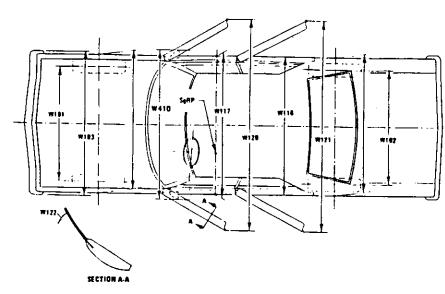
	Optional Equipment Differential Mass (weight)*					
		MASS, kg	(lb.)			
Code Equipment	Front	Rear	Total	Remarks Restrictions, Requirements		
Air conditioner			22.3	44665		
Sun roof		1.	17.2			
ABS		-	12.8	on Liftback Wide		
10 speakers audio			9.8	on Coupe GT, Liftback GT on Liftback Wide		
Speed control device			3.6	all except All-tr :		
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^{*} Also see Engine - General Section for dressed engine mass (weight).

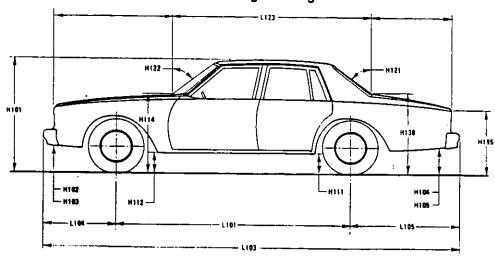
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions - Key Sheet

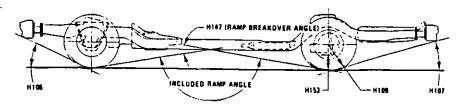
Exterior Width



Exterior Length & Height



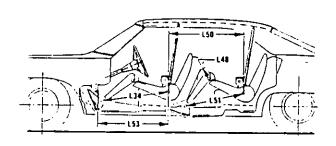
Exterior Ground Clearance

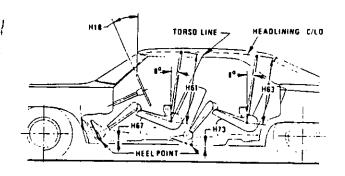


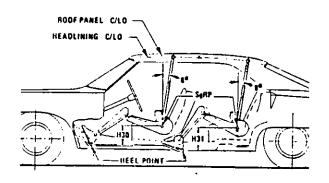
MVMA Specifications Form

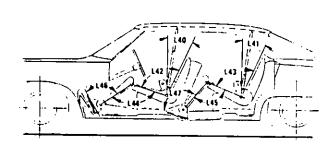
METRIC (U.S. Customary)

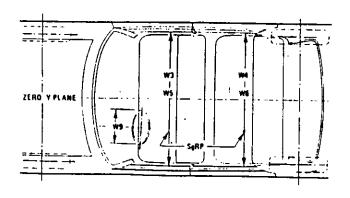
Interior Vehicle And Body Dimensions - Key Sheet

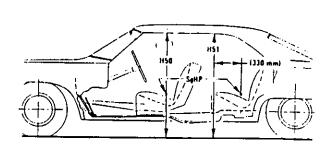










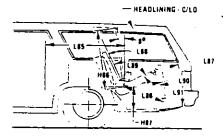


MVMA Specifications Form

METRIC (U.S. Customary)

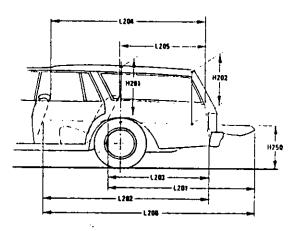
Interior Vehicle And Body Dimensions - Key Sheet

Third Seat

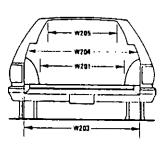


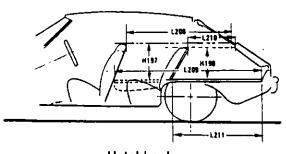
Cargo Space





Station Wagon





Hatchback

METRIC (U.S. Customary)

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

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's

design reference point which -

(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
(b) Has coordinates established relative to the design 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.

VEHICLE WIDTH. The maximum dimension measured W103 between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

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

VEHICLE WIDTH -- FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in

maximum hold-open position.

VEHICLE WIDTH - REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door

on only one side, this dimension is to the zero "Y" plane.
TUMBLE - HOME. STRAIGHT SIDE GLASS. The angle W122 measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.

CURVED SIDE GLASS. The angle measured from a vertical

to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

OUTSIDE MIRROR WIDTH: The dimension between the

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

Length Dimensions

WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

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.

OVERHAND - FRONT. The dimension measured longitudi-L104 nally 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

VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

ROCKER PANEL-REAR TO GROUND. The dimension H111 measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening,

excluding flanges, to ground.

ROCKER PANEL - FRONT TO GROUND. The dimension H112 measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

H114

COWL POINT TO GROUND. Measured at zero "Y" plane BACKLIGHT SLOPE ANGLE. The angle between evertical reference line and the surface of backlight at vehicle H121

zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO. WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc H122 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. STATIC LOAD - TIRE RADIUS - REAR. Specified by the H109 manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

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.

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

ANGLE OF DEPARTURE. The angle measured between a H107 line tangent to the rear tire static loaded radius arc and the initial point structural interference rearward of the rear tire

to ground. The limiting component shall be designated. RAMP BREAKOVER ANGLE. The angle measured be-H147 tween two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.

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

ground.

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

METRIC (U.S. Customary)

Windshield area.

Backlight areas.

"X" coordinate. "Y" coordinate.

Fiducial Mark - Number 1

Fiducial Mark Dimensions

Glass Areas

S1

S2

S3

S4

L54

W21 HB1

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

Total area. Total of all areas (S1 + S2 + S3).

Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.

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.

F10 I	2 coordinate.		steering wheel lift.
H161	Height "Z" coordinate to ground at curb weight.	H18	STEERING WHEEL ANGLE. The angle measured from a
H163	Height "Z" coordinate to ground.		vertical to the surface plane of the steering wheel.
	Fiducial Mark - Number 2	H30	SgRP-FRONT TO HEEL. The dimension measured
L55	"X" coordinate.	•	vertically from the SgRP - front to the accelerator heel point.
W22	"V"did-	H50	LIBBER RODY OFFINAL TO OFFINE STORY
	"Y" coordinate.	1.50	UPPER BODY OPENING TO GROUND-FRONT. The
W82	"Z" coordinate.		dimension measured vertically from the trimmed body
H162	Height "Z" coordinate to ground at curb weight.		opening to the ground on the SgRP - front "X" plane.
H164	Height "Z" coordinate to ground.	H61	EFFECTIVE HEAD ROOM FRONT, The dimension meas-
			ured along a line 8 deg. rear of vertical from the SgRP - front
Front	Compartment Dimensions		to the headlining plus 102 mm (4.0in.).
L11	ACCELERATOR HEEL POINT TO STEERING WHEEL	H67	FLOOR COVERING THICKNESS - UNDEPRESSED -
	CENTED The dimension managed believed to	•	FRONT. The dimension measured vertically from the
	CENTER. The dimension measured horizontally from the		surface of the undepressed floor covering to the underbody
	AHP to the intersection of the steering column centerline		sheet metal at the accelerator heel point.
	and a plane tangent to the upper surface of the steering		shoet metal at the accelerator neer point.
	wheel rim.	Rear	Compartment Dimensions
L17	DESIGN H-POINT - FRONT TRAVEL. The dimension meas-		
	ured horizontally between the design H-point - front in the	L-41	BACK ANGLE - SECOND. The angle measured between
	foremost and rearmost seat track positions. (See SAE		a vertical line through the SqRP – second and the torso line.
	J1100)	L43	HIP ANGLE-SECOND. The angle measured between
L23	NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL.		torso line and thigh centerline.
	The dimension measured horizontally between a point on	L45	KNEE ANGLE - SECOND. The angle measured between
	the design H point travel line (see the Control to the		thigh centerline and lower leg centerline.
	the design H-point travel line from the SgRP to the displaced	L47	FOOT ANGLE - SECOND. The angle measured between
	point on the design H-point travel line with the seat moved	C-7.	the lower log senteding and a line leavest and between
	to the foremost seat position, but not to include seat track		the lower leg centerline and a line tangent to the ball and
	travel used for purposes other than normal driving and riding		heel of the three-dimensional devices bare foot flesh line
	positions. (See SAE J1100).	1.40	(Reference J826),
L31	SgRP - FRONT, "X" COORDINATED.	L48	KNEE CLEARANCE - SECOND. The minimum dimension
L34	MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR.		measured from the knee pivot center to the back of the front
	The dimension measured along a line from the ankle pivot		sealback minus 51 mm (2.0 in.).
	center to the SgRP - front plus 254 mm (10.0 in.) measured	L50	SgRP COUPLE DISTANCE - SECOND. The dimension
	with right foot on the undepressed accelerator pedal. For		measured horizontally from the driver SgRP-front to the
	vehicles with SgRP to heel (H30) greater than 18 in., the		SqRP - second.
	accelerator and all may be decreased as a restant to the	L51	MINIMUM EFFECTIVE LEG ROOM-SECOND. The di-
	accelerator pedal may be depressed as specified by the	,	mension measured along a line from the ankle pivot center
	manufacturer. If the accelerator is depressed, the manufac-		to the SgRP – second plus 254 mm (10.0 in.).
	turer shall place foot flat on pedal and note the depression	W4	SHOULDED BOOM OF COMP. TO
	of the pedal.	***	SHOULDER ROOM - SECOND. The minimum dimension
L-40	BACK ANGLE - FRONT. The angle measured between a		measured laterally between door or quarter trimmed
	vertical line through the SqRP-front and the torso line. If		surfaces on the "X" plane through the SgRP - second at
	the seatback is adjustable, use the normal driving and riding		height between 254-406 mm (10.0-16.0 in.) above the
	position specified by the manufacturer.		SgRP-second, excluding the door assist straps and
L-42	HIP ANGLE - FRONT. The angle measured between torso		attaching parts.
	line and thigh centerline.	W6	HIP ROOM - SECOND. Measured in the same manner as
L44	KNEE ANGLE - FRONT. The angle measured between		W5.
	thigh centerline and lower leg centerline measured on the	H31	SgRP-SECOND TO HEEL. The dimension measured
	right leg.		vertically from the SgRP-second to the two dimensional
L46			device heel point on the depressed floor covering.
L-40	FOOT ANGLE - FRONT. The angle measured between the	H51	HPPER RODY OPENING TO COOKING SECOND TO
	lower leg centerline and a line tangent to the ball and heel	1101	UPPER BODY OPENING TO GROUND - SECOND. The
	of the bare foot flesh line measured on the right leg. Ref		dimension measured vertically from the trimmed body
	SAE J826.		opening to the ground on the "X" plane 330 mm (13.0 in.)
L53	SgRP - FRONT TO HEEL. The dimension measured		forward of the SgRP - second.
	horizontally from the SgRP-front to the accelerator heel	H63	EFFECTIVE HEAD ROOM-SECOND. The dimension
	point.		measured along a line 8 deg. rear of vertical from the SqRP
14/2	SHOULDED BOOK FROM THE		to the headlining plus 102 mm (4.0 in)

W5

W9

H7

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.)

STEERING WHEEL MAXIMUM OUTSIDE DIAMETER.

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

to the headlining, plus 102 mm (4.0 in.). FLOOR COVERING - DEPRESSED - SECOND. The di-

mension measured vertically from the heel point to the

underbody sheet metal.

fore and aft of the SgRP - front.

Define if other than round.

steering wheel rim.

W3

H73

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 estiamtes the space in a car. It is based on four measurements — head room, shoulder room, hip room, and leg room — for the front and rear seats, plus trunk capacity. The Interior Volume Index is an estimate of the size of the passenger compartment.

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

Station Wagon - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE THIRD. The dimension measured horizontally from the SgRP second to the SgRP third.
- 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.).
- 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
- L89 HIP ANGLE-THIRD. Measured in the same manner as 143.
- L90 KNEE ANGLE THIRD. Measured in the same manner as
- E91 FOOT ANGLE THIRD. Measured in the same manner as
- 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 - 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.
- 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 hox
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- 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.
- V2 STATION WAGON

Measured in inches:

W4 x H201 x L204

Measured in mm:

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

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

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

V5 TRUCKS AND MPV'S WITH OPEN AREA.

Measured in inches:

Measured in mm:

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

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

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

Measured in mm;

$$\frac{\text{L204 x W500 x H505}}{10^9}$$
 = m³ (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.

the load floor rear of the second seat.

V10 STATION WAGON CARGO VOLUME INDEX.

Measured in inches:

Measured in mm:

Hatchback - Cargo Space Dimensions

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

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 zoro "Y" plane.

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

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

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

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

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

V3 HATCHBACK.

Measured in inches:

$$\frac{L208 + L209}{2} \times W4 \times H197$$
= ft³

Measured in mm:

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

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:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{2} = 10^{-1}$$

Measured in mm:

MVMA Specifications METRIC (U.S. Customary)

Page No.	Passenger Capacity Passenger Mass Distribution Pistons Power Brakes Power, Engine Power Steering Power Teams Propeller Shaft Pumps — Fuel Water Radiator — Cap. Hoses, Core Ratios — Axie, Transaxie Compression Steering Transmission / Transaxie Rear Axie	12 2 14 2 10 6 5 5 .2.9,10
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