MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1991

Manufacturer

TOYOTA MOTOR CORPORATION
NEW UNITED MOTOR MANUFACTURING, INC.
TOYOTA MOTOR MANUFACTURING, CANADA

Mailing Address

TOYOTA MOTOR SALES, U.S.A., INC. 19001 S. Western Avenue Torrance, CA 90509

Vehicle Line

TOYOTA COROLLA

Issued

July, 1990

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

METRIC (U.S. Customary)

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NOTE:

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

Vehicle Line TOYOTA COROLLA

Model Year 1991 Issued July, 1990 Revised (*)

METRIC (U.S. Customary)

Vehicle Origin

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

Model Description & Drive (FWD_RWD_AWD, 4WD)*	Introduction Date	Make, Vehicle Models, Senes, Body Type (Mtgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max, Trunk Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City:Hwy)
4-door Sedan, FWD					<u>.</u>
LE grade, 4A-FE,	4A/T	AE92L-AEPNKA	2/3	45	•
		AE92L-DEPNKA	2/3	45	
	5M/T	AE92L-AEMNKA	2/3	45	
		AE92L-DEMNKA	2/3	45	
DLX grade, 4A-FE,	3A/T	AE92L-AEHDKA	2/3	45	
		AE92L-DEHDKA	2/3	45	
	5M/T	AE92L-AEMDKA	2/3	45	
		AE92L-DEMDKA	2/3	45	
STD grade, 4A-FE,	3A/T	AE92L-AEHRKA	2/3	45	
		AE92L-DEHRKA	2/3	45	
	5M/T	AE92L-AEMRKA	2/3	45	
		AE92L-DEMRKA	2/3	45	
5-door Wagon, FWD					
DLX grade, 4A-FE,	3A/T	AE92L-AWHDKA	2/3	45	
	5M/T	AE92L-AWMDKA	2/3	45	
5-door Wagon, 4WD					
DLX grade, 4A-FE,	4A/T	AE95L-CWPDKA	2/3	45	
	5M/T	AE95L-CWMDKA	2/3	45	
2-door Coupe, FWD					
GT-S grade, 4A-GE	. 5M/T	AE92L-ACMVFA	2/2	45	
SR5 grade, 4A-FE		AE92L-ACPXKA	2/2	45	
g, , , , , , , , , , , , , , , , , ,	5M/T	AE92L-ACMXKA	2/2	45	
DLX grade, 4A-FE,	3A/T	AE92L-ACHDKA	2/2	45	
	5M/T	AE92L-ACMDKA	2/2	45 45	

\emptyset MVMA Specifications

Vehicle Line TOYOTA COROLLA

Model Year 1991 Issued July, 1990 Revised (*)

METRIC (U.S. Customary) 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	_	С	D	
	Engine Code		4A-FE		4A-FE	4A-FE		4A-GE	
	Displacement Liters (in-3) Induction system (FI, Carb, etc.) Compression ratio SAE Net at Torque RPM Torque N • m (it) Exhaust single, dual Transmission/ Transaxie Axle Ratio (std. first)		1.587		1.587	1.587	_	1.587	
E			Fuel Injection		Fuel Injection	Fuel Injection Fuel Injection		Fuel Injection	
GLZ			9.5		9.5	9.5		10.3	
Ë		Power kW (bhp)	76/5800		76/5800	76/5800)	97(130)/6800	
	at	Torque N + m (lb. ft.)	137/4800		137/4800	137/480	0	142(105)/6000	
			Single	·	Single	Single		.Single	
T R	Transm Transai	ission/ de	5M/T		3A/T	4A/T		5M/T	
A N S			3.722	4.562	3.526	2.962	3.034	4.312	
<u> </u>			Al	A2	В	C1	C2	D ·	

Serie	s Availability	•	Power Teams (A - B - C - D)		
Model		Code	Standard	Optional	
-door Sedan, FWD,	4A/T	AE92L-A(D)EPNKA	C1	N.A.	
-door Sedan, FWD,	3A/T	AE92L-A(D)EHDKA	В	N.A.	
-door Sedan, FWD,	3A/T	AE92L-A(D)EHRKA	В	N.A.	
-door Sedan, FWD,		AE92L-A(D)EMNKA	Al	N.A.	
-door Sedan, FWD,	5M/T	AE92L-A(D)EMDKA	Al	N.A.	
-door Sedan, FWD,	5M/T	AE92L-A(D)EMRKA	Al	N.A.	
-door Wagon, FWD,	3A/T	AE92L-AWHDKA		- N.A	
-door Wagon, FWD,	5M/T	AE92L-AWMDKA	Al	N.A.	
-door Wagon, 4WD,	4A/T	AE95L-CWPDKA	C2	N.A.	
-door Wagon, 4WD,		AE95L-CWMDKA	A2	N.A.	
-door Coupe, FWD,	5M/T,GT-S	AE92L-ACMVFA	D	N.A.	
-door Coupe, FWD,	4A/T	AE92L-ACPXKA	C1	N.A.	
-door Coupe, FWD,	3A/T	AE92L-ACHDKA	В	N.A.	
-coor Coupe, FWD,	5M/T,SR5	AE92L-ACMXKA	Al	N.A.	
-door Coupe, FWD,	5M/T,DLX	AE92L-ACMDKA	Al	N.A.	
				·	
					

Vehicle Line TOYOTA COROLLA

Model Year 1991 Issued July, 1990 Revised (*)

METRIC (U.S. Customary)

Engine Description 4A-GE 4A-FE Engine Code ENGINE - GENERAL Type & description (inline, V, angle, flat, location, front, mid, rear, In-line, front, transversely mounted, DOHC, pent roof transverse, longitudinal, sonc. dohc. ohv, hemi, wedge, pre-camber, etc.) Toyota Motor Corporation Manufacturer 4 No. of cylinders 81.0 Bore 77.0 Stroke 87.5 Bore spacing (C / L to C / L) Cast iron, 31.3 Grey cast iron, 36 Cylinder block material & mass kg (lbs.) (machined) 191.0 Cylinder block deck height 391.5 Cylinder block length Deck clearance (minimum) 0.0 (above or below block) Aluminum alloy, Cylinder head material & mass kg (lbs.) 11.1 Aluminum alloy, 36.0 Cylinder head volume cm3 (inches3) 30.2 Cylinder liner material N.A. Head gasket thickness (compressed) 1.20 Minimum combustion chamber 47.2 46.7 total volume cm3 (inches3) 1-2-3-4 L. Bank Cyl. no. system (front to rear)* R. Bank 1-3-4-2 Firing order Intake manifold material & mass kg (lbs.)** Aluminum alloy, 3.5 Aluminum alloy, 2.7(Fed.), 3.2(Cal.), 3.8(AE95) Spherical graphite cast iron, 6.0(4A-GE), 4.0(4A-FE) Exhaust manifold material & mass kg (lbs.)** Knock sensor (yes / no) Yes(4A-GE) Fuel required unleaded, diesel, etc. Unleaded 91 87 Fuel antiknock index (R + M) - 2 Quantity Material and type (elastomeric, hydroelastic, hydraulic damper, etc. Engine mounts Added isolation (sub-frame, crossmember, etc.) Total dressed engine mass (wt) dry*** 4A-GE=123, 4A-FE=M/T 118(Fed.), 119 (Cal., AE95), A/T 110 (Fed.), 111 (Cal., AE95) Engine - Pistons Material & mass, g (weight, oz.) - piston only Aluminum alloy, 321 Aluminum alloy, 293 Engine - Camshaft Location Over cylinder head Grey cast iron Alloy cast iron Material & mass kg (weight, lbs.) Intake=1.8, Exhaust=1.9 No.1, No.2=1.7 Chain belt Belt drive Drive type Width / pitch 19.1/9.5 19.1/9.525

^{*} 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:

Vehicle Line __TOYOTA COROLLA **MVMA Specifications** 1990 Revised (*) 1991 Issued July, Model Year _ METRIC (U.S. Customary) **Engine Description** 4A-GE 4A-FE Engine Code Engine - Valve System Hydraulic lifters (std., opt., n.a.) N.A. 8/8 Number intake - exhaust Valves 30.5/25.5 Head O.D. intake rexhaust 30/24.5 **Engine - Connecting Rods** 0.545 Material & mass kg., (weight, lbs.)* Carbon steel, Carbon steel, 0.460 Length (axes C.L to C.L) Engine - Crankshaft Spheroidal graphite cast iron, Material & mass kg., (weight, lbs.)* Carbon steel. 12.4 10.3 No.3 End thrust taken by bearing (no.) Length & number of main bearings 20.0, 5 Acrylate, 1 piece Seal (material, one, two piece design, etc.) Silicone. l piece Engine - Lubrication System Normal oil pressure kPa (psi) at engine rpm 392/6000 235/2000 Type oil intake (floating, stationary) Stationary Oil filter system (full flow, part, other) Full flow Capacity of cicase, less filter-refill-L (qt.) 3.4 3.0 Engine - Diesel information Diesel engine manufacturer Glow plug, current drain at 0°F Type Injector Opening pressure kPa (psi) Pre-chamber design Manufacturer Fuel injection pump Type Fuet injection pump drive (belt, chain, gear) Supplementary vacuum source (type) Fuel heater (yes/no) Water separator, description (std., opt.) Turbo manufacturer Oil cooler-type (oil to engine coolant; oil to ambient air) Oil filter Engine - Intake System N.A. Turbo charger - manufacturer

Intercooler

Super charger - manufacturer

N.A.

N.A.

^{*} Finished State

MVMA Specifications TOYOTA Vehicle Line COROLLA Issued July, 1990 Revised (*) 1991 Model Year **METRIC (U.S. Customary)** Engine Description Engine Code 4A-GE 4A-FE Engine - Cooling System Coolant recovery system (std., opt., n.a.) Std. Coolant fill location (rad., bottle) Radiator Radiator cap relief valve pressure kPa (psi) 88 88.3 Type (choke, bypass) Circulation Bypass thermostat Starts to open at °C (°F) 82 Type (centrifugal, other) Centrifugal GPM 1000 pump rpm 0.50 0.38 Number of pumps Orive (V-belt, other) Water V-ribbed belt pump Bearing type Sealed, roller and ball bearing Sealed Impeller material Stainless steel Steel Housing material Aluminum alloy By-pass recirculation type (inter., ext.) External 4A-GE=6.0, 4A-FE=M/T 5.6, 6.2(AE95), A/T 5.3(3A/T), 5.8(4A/T), 6.1(AE95) With heater - L(qt.) Cooling With air conditioner - L(qt.) 6.0 capacity Opt. equipment specify - L(qt.) N.A. Water jackets full length of cyl. (yes, no) Yes Water all around cylinder (yes, no) No Water jackets open at head face (yes, no) No Std., A/C, HD Std. Type (cross-flow, etc.) Vertical flow Construction (fin & tube Corrugated fin mechanical, braze, etc.) Radiator core Material, mass kg (wgt., lbs.) Brass and copper, 4A-GE=3.4,4A-FE-M/T 3.6, 5.19(AE95), A/T 3.9(3A/T), 5.4(4A/T), 5.83(AE Width 668 Height 325 Thickness 16 16(M/T.3A/T), 32(4A/T, AE95 Fins per inch 4A-GE=17, 4A-FE=23(M/T, 3A/T), 17(4A/T), AE95=17(M/T), 20(A/T)Radiator end tank material Resin Std., elec., opt. Electric Number of blades & type (flex, solid, material) 4, solid, resin 4, solid Diameter & projected width 300×88.0 300x88.0, AE95=300x88.0 (M/T), 300x100.0(A/

Thermo switch

80, AE95=80(M/T),

120(A/T)

Motor

4A-GE=2100, 4A-FE=1900(M/T, 4A/T), 2100(3A/T), AE95=2100(M/T), 2050(A/T)

Fan

Ratio (fan to crankshaft rev.)

Drive type (direct, remote)

Motor rating (wattage/elec.)

Motor switch (type & location/elec.)

Switch point (temp./pressure/elec.)

90

Resin

Fan cutout type

RPM at idle (elec.)

Fan shroud (material)

Water temperature switch, water inlet

MVMA	Specifications	Vehicle Line	TOYOTA	COROLLA		
		Model Year _	1991	_ issued <u>July, 19</u>	90 Revised (•)	
METRIC	(U.S. Customary)					
Engine Desc Engine Code		4A-GE		. '	4A-FE	
Engine -	Fuel System (See supple	mental page for detailes of Fuel Injection	n. Supercharger	. Turbocharger, etc. if used)		
Induction type injection syste	carburetor, fuel	Fuel injection syst				
Manufacturer		AISAN		NIPPONDENSO		
Carburetor no.	of parrels	_		MITTONDENSO		
idle A.F mix.		Preset at manufactu	rer			
	Point of injection (no.)	4				
Fuel injection	Constant, pulse, flow	Pulse		-		
,00	Control (electronic, mech.)	Electronic			ENSO 1.), 800(Cal., AE95) 2.), 800(Cal., AE95)	
	System pressure kPa (psi)	284		 		
ldle spdrpm	Manual	800		700(Fed.),	800(Cal., AF95)	
(spec. neutral or drive and					200 (0021)	
propane if used)	Automatic	800		700(Fed.),	800(Cal., AE95)	
						
Intake manifold or water thermo	d heat control (exhaust ostatic or fixed)	N.A.				
Air cleaner type	9	Dry type, l element				
Fuel filter (type	location)					
	Type (elec. or mech.)	Electromagnetic		Electric		
Fuel pump	Location (eng., tank)	In fuel tank				
	Pressure range kPa (psi)	284				
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	_				
Fuel Tank						
Capacity refill L	(gallons)	50		·		
ocation idescr	ibe)	Under rear floor				
Attachment		Banded		· · · · · · · · · · · · · · · · · · ·		
Material & Mass	s kg (wei ght lbs.)	Steel sheet				
iller	Location & material	Left, wheel house, s	steel pip	e		
ipe	Connection to tank	Rubber hose, N.A. fo	or AE95			
uel line (mater	nai)	Steel pipe				
uel hose (mate	erial)	Rubber				
letum line (mat	tenai)	Steel pipe				
apor line (mate	erial)	Steel pipe				
	Opt., n.a.	N.A.				
xtended ange	Capacity L (gallons)	_				
ink	Location & material					
	Attachment					
,	Opt., n.a.	N.A.				
uxiliary	Capacity L (gallons)					
ink	Location & material	_				
	Attachment	_				

Selector switch or valve

Separate fill

TOYOTA COROLLA **MVMA** Specifications Vehicle Line _ 1991 Issued July, 1990 Revised (*) Model Year **METRIC (U.S. Customary)** Engine Description 4A-GE Engine Code 4A-FE **Vehicle Emission Control** 02S/TWC (Fed.) Type (air injection, engine modifications, other) EGR/02S/TWC EGR/O2S/TWC(Cal., AE95) Pump or pulse Driven by Injection Air distribution (head, manifold, etc.) Point of entry N.A. (Fed.) Type (controlled flow. Exhaust back pressure control Exhaust open orifice, other) Exhaust Exhaust back pressure control(Cal., AE Gas Emission Recircula-Exhaust source Exhaust manifold Control N.A. (Fed.), Cylinder head(Cal., AE95 tion Point of exhaust injection Intake manifold N.A. (Fed.), Intake manifold(Cal., A! (spacer, carburetor, manifold, other) 3-way Type Number of 1 Forward under floor area Location(s) Catalytic 1.3 Volume L (in3) 1.3, 1.7(AE95) Converter Substrate type Monolith Noble metal type Noble metal concentration (g/cm3) Type (ventilates to atmosphere, induction system, other) Closed Energy source (manifold Manifold vacuum crankcase pressure Crankcase vacuum, carburetor, other) Emission Control Discharges to (intake Intake manifold manifold, other) Air inlet (breather cap, other) Throttle body <u>Air cleaner</u> Vapor vented to Fuel tank Canister Evapora-(crankcase. tive canister, other) Carburetor Emission Control Canister Vapor storage provision Yes Closed loop (yes/no) Electronic system Open loop (yes/no) No Engine - Exhaust System Type (single, single with cross-over, Semi-dual Single dual, other) Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight ibs) straight flow l, straight flow reverse flow reverse flow Resonator no. & type Branch o.d., wall thickness 42.7/1.5 Exhaust Main o.d., wall thickness 4A-GE=48.6/1.5, 4A-FE=42.7/1.5, AE95=42.7/2.0, 1.5 pipe Material & Mass kg (weight lbs) Stainless steel, 4A-GE=1.8, 4A-FE=1.3, AE95=0.6, 1.4 Inter-4A=GE=48.6/1.5, 1.2, 4A-FE=48.6/1.5, 42.7/1.5, 42.7/1.2, AE95=42.7/1.5 o.d. & wall thickness mediate Stainless steel, 4A-GE=2.8, 0.5, 4A-FE=0.3, 2.9, 0.4, AE95=2.5 Material & Mass kg (weight lbs) pipe

Tail

pipe

o.d. & wall thickness

Material & Mass kg (weight lbs)

0.6

42.7/1.2.

Stainless

48.6/1.2(AE95)

steel

35/1.2

Stainless steel

Vehicle Line TOYOTA COROLLA

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METRIC (U.S. Customary)

Engine Description Engine Code

F	√D	4.50
4A-GE	4A-FE	4WD

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

Manual 3-speed (manufacturer/country)	N.A.	N.A.	N.A.	
Manual 4-speed (manufacturer/country)	N.A.	N.A.	N.A.	
Manual 5-speed (manufacturer/country)	Std.	Std.	Std.	
Automatic (manufacturer/country)	N.A.	Std.	N.A.	
Automatic overdrive (manufacturer country)	N.A.	Std.	Std.	

Manual Transmission/Transaxle

Number of to	orward speeds	5	"				
	151	3.166	3.545	3.833			
	2nd	1.904		2.045			
	3rd	1.310		1.333			
Gear ratios	4th	0.969		0.918			
	5th	0.815		0.775			
	Reverse	3.250		3.583			
Synchronous	s meshing (specify gears)	All forward gears					
Shift lever lo	cation	Floor					
Trans. case	mat'l. & mass kg (lbs)*	-					
Lubncant	Capacity L (pt.)	2.6		5.0	P.		
	Type recommended	Multipurpose API GL-4		Multipurpose API GL-5			

Clutch (Manual Transmission)

Clutch manufacturer		AISIN					
Clutch type	(dry, wet; sing	e, multiple disc)	Dry, Single	· · · · · · · · · · · · · · · · · · ·			
Linkage (hyd	draulic, cable,	rod, lever, other)	Hydraulic				
Max. pedal e		Depressed	-				
spring load)	N (lbs)	Released	-				
Assist (sprin	g, power/perci	ent, nominal)	-				
Type pressu	re plate spring	S	Diaphragm				
Total spring	load (nominal)	N (ibs)	4410	3920	3920		
	Facing m	fgr. & material coding	AISIN, 31256-17020	NISSINBO 31256-12090	AISIN, 31256-35040		
	Facing m	aterial & construction	Semi-mold				
	Rivets pe	r facing	16				
	Outside x	inside dia. (nominal)	212 x 140	200 x 140	224 x 150		
	Total eff.	area cm²(in.²)	199	160	217		
Clutch facing		s (pressure plate heel side)	3.5				
		th (pressure plate heel side)	-				
	Engagem	ent cushion method	Cushion spring				
Release bea	inng type & me	thod lub.	Single row ball	bearing, seal	led grease		
Torsional da	mping method	springs, hysteresis	Rubber				

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

MVMA Specifications Vehicle Line TOYOTA COROLLA Model Year 1991 Issued July, 1990 Revised (*)

METRIC (U.S. Customary) FWD Engine Description 4WD 3A/T **Engine Code** 4A/T Automatic Transmission/Transaxie A131L Trade Name A240L A241H Hydraulic control, planetary gear, with lock-up clutch Type and special features (describe) Floor Location (column, floor, other) Gear PRND2L Ltr.:No. designation (e.g. PRND21) selector Shift interlock (yes, no. describe) 1st 2.810 3.643 2nd 1.549 2.008 Gear 3rd 1.000 1.296 4th 0.892 Reverse 2.296 2.977 1 to 2=61, to 2=53, to 2=61. Max. upshift speed - drive range km/h (mph) to 3=110 to 3 = 98to 3=105 to 1=43. 2 to 1=39, 2 to 1=44, Max. kickdown speed - drive range km/h (mph) 3 to 2=106 3 to 2=943 to 2=104 Min. overdrive speed km/h (mph) 22 15 3-element, Number of elements 1-step, 2-phase Max. ratio at stall 2.300 2.550 Torque 2.300converter Type of cooling (air, liquid) Water-cooled Nominal diameter 230 Capacity factor "K"* Capacity refill L (pt.) 2.5[5.5] 3.1[7.2(with diff.)] 3.1[8.2(with diff.)] Lubricant Type recommended ATF DI TOYOTA ATF TYPE T Oil cooler (std., opt., N.A., internal, external, air, liquid) N.A. Std. Transmission mass kg (lbs) & case material** _] = dry fill All Wheel / 4 Wheel Drive Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.) Fill time Manufacturer and model TOYOTA Transfer case Type and location Integral and co-axial with front diff. Low-range gear ratio _ System disconnect (describe) _ Type (bevel, planetary, w or w/o Bevel with hydraulic controlls Canter Bevel viscous bias, torsen, etc.) differential mutiple clutch

Torque split (% front/rear)

50/50

5M/T

50/50

4A/T

^{*} Input speed - Torque

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

TOYOTA COROLLA Venicle Line MVMA Specifications 1990 Revised (*) 1991 issued July, Model Year **METRIC (U.S. Customary) Engine Description** All models **Engine Code Axle Ratio and Tooth Combinations** (See 'Power Teams' for axie ratio usage) Effective final drive ratio (or overall top gear ratio) 4.312 3.722 4.562 3.526 2.962 3.034 Transfer ratio and method (chain, gear, etc.) Ring gear o.d Front 16 18 drive Pinion 16 19 27 29 No. of unit teeth 69 67 Ring gear 73 67 80 88 **Front Drive Unit** Description (integral to trans., etc.) Integral to transaxle Limited slip differential (type) N.A. Туре Helical Drive pinion Offset No. of differential pinions FWD: 2. 4WD: Adjustment (shim, etc.) Pinion differential Collapis<u>ible</u> Bearing adjustment Sleeve Driving wheel bearing (type) Double row angular ball bearing M/T=2.6, 3A/T=1.4, 4A/T=shared with trans. Capacity L (pt.) 4WD 5.0 Lubricant M/T=API GL-4, 4WD M/T=API GL-5, A/T=TOYOTA ATF TYPE Type recommended others #ATF "DEXRON" II 4A-GE 4A-FE(2WD) Axle Shafts - Front Wheel Drive 4A-FE(4WD) Manufacturer and number used Left Solid shaft Type (straight, solid bar, tubular, etc.) **Right** Solid shaft Left 22.8×340.1 3×341.0 22.8 x 332.0 Manual transaxie 26.0 x 655.5 22.8×332.0 Outer Right 26.0 x 655.5 Left 22.3 x 341.0 22.8×332.0 length" x Automatic transaxie Right _ 26.0 x 655.5 22.8 x 332.0 thickness Left Optional transaxle Right Type Slip voke Number of teeth Spline o.d. Toyota, 43403-12050(RH) Toyota,43403-12040 Toyota, 43403-12040 inner Make and mfg. no. 43403-12060(LH) Outer Toyota, 43405-32013 Toyota, 43405-12021 Toyota, 43405-32013 Number used inner Tripot (plunging) Universal Type, size, plunge joints Outer Pzeppa (fixed) Attach (u-bolt, clamp, etc) Snap ring Type (plain, anti-friction) Bearing Lubrication (fitting, prepack)

Drive taken through (torque tube,

Torque taken through (torque tube,

arms or springs)

arms or springs)

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

MVMA Specifications			ons	Vehicle Line TOYOTA COROLLA			
METRIC (U.S. Customary) Engine Description Engine Code				Model Year 1991 Issued July, 1990 Revised (*)			
)				
			•	4WD			
Axle Ratio	and To	oth Combi	nations	(See 'Power Teams' for axle ratio usage)			
Axle ratio (or o	verall top g	ear ratio)		2.928			
Ring gear o.d.				170.5			
No. of	Pinton			14			
teeth	Ring gea	ır		41			
Rear Axle	Unit						
Description				Banjo, semi-floating			
Limited slip diffe	erentiai (tyr	oe)		N.A.			
Drive pinion		Туре		Hypoid			
Crive princri		Offset		31.75			
No. of different	al pinions			2			
Pinion / differen	ntial	Adjustment (shim, etc.)	Shim			
		Bearing adju	stment	Collapsible Sleeve			
Driving wheel b	earing (typ	e)	<u>_</u>	Double row angular ball bearing, prepacked			
Lubncant	Capacity	L (pt.)					
	Type rec	ommended		Hypoid gear oil API GL-5			
							
	-						
							
Propeller S	Shaft -	Rear Whee	el Drive				
Manufacturer							
Type (straight to internal-external	ube, tube-ir	7-tube.		No.1:inner damper, No.2, No.3:hollow tube			
" ICTI IZ POXICE III	Camper, e	stc./					
	Manuai 3	l-speed transmi	ssion	-			
Outer	Manual 4	-speed transmi	SSION	-			
diam. x length* x	Manual			No.1:75 x 560 x 1.6, No.2:65 x 550 x 1.6			
wall	Manual 5-speed transmission			No.3:75 x 675.5 x 1.6			
thickness							
1	Overdrive	7					
	Automati	c transmission		Same as above			
	701011420	C (IEIISIIIISSIOII					
Inter- mediate	Type (pla	in, anti-friction)		Ball bearing			
bearing	Lubrication	on (fitting, prepa	ick)	Grease, sealed type			
Slip	Туре			Spline			
yoke	Number	of teeth		21			
	Spline o.	d.		27.9			
i	Make and	t mfg. no.	Front-	Toyota 37402-12010, 37411-14010			
			Pour	LÖBRO 37360-12010			
	Number	used		4			
Universal	Type (bai	ll and trunnion.	cross)	Hooks, cross groove			
joints	Rear atta	ch (u-bolt, clam	p. etc)	Flange			
į		Type (plain, anti-friction)		Anti-friction			
	Bearing	Lubrication					
		(fitting, prepa	ck)	Grease, sealed type			
Drive taken thro arms or springs		tube.		_			
Torque taken the	rough (tora	ue tube,		_			
arms or springs;)						

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

Model Year _1991

Venicle Line TOYOTA COROLLA __ issued <u>July 1990</u> Revised (+)

METRIC (U.S. Customary)

Sody Type And/Or Engine Displacement

4WD(Wagon)

4A-FE 4A-FE (SR5) 4A-GE

Suspension - General Including Electronic Controls

	Sta	indard/optional/not avail.	Not avail					
	Ma	nual automatic control	-					
	1 Tyl	oe (air hydraulic)	-					
ar eveling	Pa	mary assist soring	-					
	Яe	ar only 4 wheel leveling	-					
	Sın	gle dual rate spring	-	<u> </u>				
	Sin	gle dual ride heights						
_	Pro	vision for jacking	-					
	Sta	ndard option not avail.	Not avail	Not avail				
	Ma	nual automatic control		-				
	Nu	mber of damping rates		-				
hock bsorber amping		oe of actuation (manual/ ctnc motor/air, etc.)	-	-				
ontrois	s	Lateral acceleration	_					
	Ų	Deceleration	-	-				
	. 0	Acceleration	-					
	s	Road surface	-	-				
	Тур	oe	Double-acti	Double-acting hydraulic telescopic				
hock osorber	Ma	ke	Fr.:Toyota 1	Rr.:Kayaba or Tok	ico	· · · · · · · · · · · · · · · · · · ·		
ront & ear)	Pis	on diameter Fr	/Rr 32/25	30.2/25	30.2/30	32/30		
 ,	Roc	diameter Fr	/Rr 22/12.5	20/18	20/20	22/20		

Suspension - Front

Type and de	scription	MacPherson stru	ŧ					
Travel*	Full jounce	80 80 80		80	80			
i rav e i	Full rebound	74	85	85	82			
	Type (coil, leaf, other & material) Coil spring, SUP7NV or SUP12V							
	Insulators (type & material)	UPR and LWR, rubber						
ipring	Size (coil design height & i.d.)	Appears on next						
	Spring rate N/mm (lb./in.)	24.5	18.6	18.6	21.6			
	Rate at wheel N/mm (lb./in)	26.5	20.6	20.6	23.5			
Stablizer	Type (link, linkless, frameless)	Link	-	_	Link			
Addin 201	Material & bar diameter	STKM15A or ASB25N,25	+		STKM15A,25.4			

Suspension - Rear

Type and de:	scription		Trailing, rigid	MacPhers	on strut			
Travel*	Full jounce		90	85	85	85		
	Full re	bound	100	95	95	83		
	Type (coil, leaf, other & material) Size (length x width, coil design height & i.d.)		Coil spring, SUF7NV or SUF12V	Coil spr	ing, SUP7			
			Appears on next	pears on next page				
Spring	Spring rate N/mm (lbin.)		21.6	18.6	16.7	21.6		
	Rate at wheel N/mm (lb./in.)		23.5	20.6	20.6	23.5		
	Insula	tors (type & material)	UPR and LWR, rubber					
	lt.	No. of leaves	-					
	leaf	Shackle (comp. or tens.)	-					
Stabilizer	Туре	link, linkless, frameless)	Link	_	Link	Link		
	Mater	al & bar diameter	S45C or S48C,17	_	SUP6, 14			
Track bar (typ	pe)		_					

^{*} Define load condition:

		4A-GE	4A-FE (R, D grade)	4A-FE (N, X grade)	4WD (wagon)
Front	spring				
RH	Std.	340.0 x 127.5	356.5 x 127.8	356.5 x 127.8 364.5 x 127.6	339.0 x 126.9 345.0 x 126.8
	Opt. (w/air conditioner)	346.5 x 127.3	364.5 x 127.6	364.5 x 127.6 372.5 x 127.5	345.0 x 126.8 351.0 x 126.7
† U	Std.	346.5 x 127.3	364.5 x 127.6	364.5 x 127.6 372.5 x 127.5	345.0 x 126.8 351.0 x 126.7
LH	Opt. (w/air conditioner)	353.5 x 127.2	372.5 x 127.5	372.5 x 127.5 380.5 x 127.4	351.0 x 126.7 357.0 x 126.6

Upper tier: M/T Lower tier: A/T

	Coupe (D grade)	Coupe (X grade)	Coupe (V grade)	Wagon	4WD (wagon)
r spring					
Std.	325.5 x (88,8-118.8)	341.5 x (88.9-118.9)	319.5 x (88.3-118.3)	331.0 x (88.6-118.6)	366.0 x 107.5

Vehicle Line TOYOTA COROLLA Issued July, 1990 Revised (*) 1991

METRIC (U.S. Customary)

MEINIC	(0.3. 00	istomary)						
Body Type A Engine Dispi		-		4A-GE	4A-FE(2WD)	4A-FE(4WD)		
Brakes -	Service			l	<u> </u>	<u> </u>		
Description				_				
Manufacturer a		Front (disc or drum	1)	Std. disc				
brake type (std	I., opt., n.a.)	Rear (disc or drum)	Std. drum				
Valving type (p	proportion, de	elay, metering, other)		Proportioning valv	'e			
Power brake (std., opt., n.a	i. <u>)</u>		Std.				
Booster type (r	remote, integ	ral. vac., hyd., etc.)		Direct vacuum		· · · · · · · · · · · · · · · · · · ·		
		nline, pump, etc.)		N.A.				
Vacuum		(volume in.3)		N.A.	<u> </u>	· · · · · · · · · · · · · · · · · · ·		
		e (elec, gear driven, bel	driven)	N.A.				
raction		nai speed range		ļ -				
control		ine intervention (electro	ntc, mech.)	- -	<u> </u>	 		
		ar (std., opt., n.a.)		N.A				
	Manufact							
Anti-lock	Type (electronic, mech.)			<u>-</u>				
levice	Number sensors or circuits				<u> </u>			
	Number anti-lock hydraulic circuits			-				
	Integral or add-on system			-				
		rot (yes, no)		-				
· · · · · · · · · · · · · · · · · · ·		ower source (elec., vac. mtr	., pwr. strg.)	- In 16/ /122	16//000	16//260		
ffective area				Fr/Rr:164/132	164/232	164/268		
aross Lining a				164/132	164/232	164/268		
Swept area cm		·	T	1190/923	1049/377	1049/440		
		king diameter	F-R	258/242	238/N.A.	238/N.A.		
Rotor		Inner working diameter F/R		162/166	142/N.A.	142/N.A.		
	Thickness		F-R	22.0/9.0 Cast iron, vented/solid	18.0/N.A. Cast iron, vented/N.A.	18.0/N.A. Cast iron, vented/N.A.		
	Diameter	type (vented/solid)	F/R			"		
Drum		••••	F/R	N.A./N.A.	N.A./200.0	N.A./200.0		
Afbani nelinda	Type and	material	F/R	N.A./N.A.	N.A/Cast iron	N.A./Cast iron		
Wheel cylinder			F/A	54.0/30.16	51.10/17.46	54.0/19.05		
Master cylinde		ore/stroke		22.22/14.00	20.64/14.00	22,22/14.00		
edal arc ratio) lb.) pedal load kPa (ps	· ·	10795	11121	10795		
ining clearant		, io.) peda load kra (psi	F/B	10785 Self adjusting /	11121 Self adjusting	10785		
Great		Bonded or riveted (ri		Bonded	DOTE GOLDERE	· · · · · · · · · · · · · · · · · · ·		
		Rivet size	a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-					
		Manufacturer		Bendix, Sumitomo, Nisshinbo, Akebono, Aisin				
	C	Lining code****		- Dengin, Sumitomo,	WY99HTHDO! WKEDOHO	VISTII		
	Front wheel	Material		Resin molded				
		**** Primary or	out-board	102 x 42 x 10				
		Size Secondary		102 x 42 x 10				
lant.		Shoe thickness (no i		5.0				
irake ning		Bonded or riveted (ri		Bonded				
-		Manufacturer		Nisshinbo, Akebono				
	0-5-	Lining code*****		THE SHITHDO! WEEDONO				
	Rear wheel			Resin molded				
	WU961	Material		IVESTI MOTORG		· · · · · · · · · · · · · · · · · · ·		
		Primary or	out-board	95 - 3/ - 10	102 - 20 - 4	192 x 35 x 4		
		Primary or Size Secondary		95 x 34 x 10 95 x 34 x 10	192 x 30 x 4 192 x 30 x 4	192 x 35 x 4 192 x 35 x 4		

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

^{***} Total swept area for four brakes. (Grum 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. **** Size for drum brakes includes length x width x thickness.

TOYOTA COROLLA **MVMA Specifications** Vehicle Line 1991 Issued July, 1990 Revised (*) Model Year **METRIC (U.S. Customary)** FWD FWD FWD Body Type And/Or Engine Displacement all R grade V grade all D.N.X 4WD grade Tires And Wheels (Standard) Size (load range, ply) 155SR13 175/70SR13 185/60R14 82H 165SR13 Radial Type (bias, radial, steel, nylon, etc.) 1193 179 193*1 Inflation pres-Front kPa (psi) sure (cold) for recommended 221*2 Tires 193 193*1 179 max. vehicle Rear kPa (psi) load 221*2 Rev. mile-at 70 km/h (45 mph) 913 910 916 896 Full drop center rim, steel Type & material Rim (size & flange type) $13 \times 5J$ 14 x 5.5JJ $13 \times 5J$ Wheel offset 45 39 45 Wheels Nut Type (bolt or stud) 100 Attachment Circle diameter 4.12 dia., 1.5 pitch Number & size T135/70D15, T115/70D14, 14 x 4T Tire and wheel 15 x 4T Spare Storage position & location (describe) Trunk room *1 3 persons *2 Full loaded Tires And Wheels (Optional) P155/80R13 P175/70R13 Tire size (load range, pty) 185/60R14 82H Type (bias, radial, steel, nylon, etc.) Radial _ Wheel (type & material) Steel 13 x 5J Rim (size, flange type and offset) $14 \times 5.5JJ$ Tire size (load range, ply) 185/60R14 82H Type (bias, radial, steel, nylon, etc.) Radial _ Wheel (type & material) Aluminum _ : Rim (size, flange type and offset) (N & X grade) $14 \times 5.5JJ$ Tire size (load range, ply) P175/70R13 Type (bias, radial, steel, nylon, etc.) Radial Wheel (type & material) Stee1 13 x 5J 175/70 skl3 P175/70kl3 Rim (size, flange type and offset) Tire size (load range, ply) Type (bias, radial, steel, nylon, etc.) Radial Wheel (type & material) Aluminum 13 x 5J Rim (size, flange type and offset) Spare tire and wheel size (if configuration is different than The same road tire or wheel, describe optional spare tire and/or wheel location & storage position)

Brakes -	Parking	Coupe V grade	All others		
Type of contro	ol	Manual			
Location of control		On floor tunnel			
Operates on		Rear disc rotor	Rear brake drum		
	Type (internal or external)	N.A.			
separate	Drum diameter	N.A.			
rom service orakes	Lining size (length x width x thickness)	N.A.			

TOYOTA COROLLA Vehicle Line _ issued July, 1990 Revised (*) 1991 Model Year

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

4A-GE FWD, 4A-FE

4WD, Wagon

Manual (std., opt., n.a.)		N.A.	Std.(except N grade), N.A.(N grade) Std.					
Power (std., c	pt., n.a.)			Std. (N grade), Opt. (except N grade) Opt.					
Adjustable Type		Tilt							
steering whee		Manufa	cturer	-	-				
tilt, telescope, other) (std., opt., n.a.)		Std.	Opt.	Opt.					
Wheel diameter** (W9) SAE J1100		Manual		384	380	380			
		Power		384	380	380			
	Outside	Wall to	vall (l. & r.)	10.8	M/S 10.6 P/S 1	0.8 10.	.8		
Turning	front	Curb to	curb (l. & r.)	9.8	9.6	9.8 9.	. 8		
tiameter n (ft.)	Inside	Wall to	wall (l. & r.)	5.5	5.2_	5.4 5	. 2		
	rear			5.7	5.4	5.6 5	. 4		
Scrub Radius	•								
		Туре			Rack and pinion	Rack and pinion			
	Gear	Manufacturer			Toyota Motor Corporati	on			
Manual	Gear	Aatios	Gear	-	00				
			Overail	_	24.1	21.9	-24.6		
	No. wheel turns (stop to stop)		-	4.3	4.2				
	Type (co	Type (coaxial, elec., hyd., etc.)		Integral					
	Manutac	Manufacturer		Toyota	Toyota/Koyo	Toyo	ta		
ower		Туре		Rack and pi	nion	-			
OWE	Gear	Ratios	Gear	œ					
	L	natios	Overail	19.1	19.1/18.7_	19.1			
	Pump (di	rive)		V-ribbed be	<u>l</u> t				
	No. whee	el turns (st	op to stop)	3.4	3.4/3.3	3.4			
	Туре			Ackerman					
inkage	Location (front or rear of wheels, other)		Rear of whe	els					
	Tie rods	(one or two	o)	2					
	Inclinatio	n at camb	er (deg.)	12°50'	12°40', 12°45' (coupe)	12°0	51		
Steering		Upper		Ball bearin					
xis	Bearings (type)	Lower		Ball joint					
	(type)	(type) Lower Thrust		1					

 $^{^{\}circ}$ The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground. $^{\circ}$ See Page 22.

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

Vehicle Line TOYOTA	
Model Year1991	Issued July, 1990 Revised (*)

	FWD	4A-FE		
4A-GE	Sedan, Wagon	Coupe	4WD,	Wagon

Wheel Alignment

	Service	Caster (deg.)	1°20'±45'	1°20'±45' 1°25'	±45' 1°15'±45'
	checking	Camber (deg.)	-0°15'±30'	-0°10'±30'	0°10'±30'
		Toe-in outside track-mm (in.)	1±4		
ront		Caster (deg.)	1°20'±30'	1°20'±30' 1°25	'±30' 1°15'±30'
vheel at turb mass	Service reset*	Camber (deg.)	-0°15'±30'	-0°10'±30'	0°10'±30'
(wt.)		Toe-in - mm (in.)	1±1		
	Penodic M.V. in- spection	Caster (deg.)	1°20'±45'	1°20'±45' 1°25	'±45' 1°15'±45'
		Camber (deg.)	-0°15'±45'	-0°10'±45'	0°10'±30'
		Toe-in - mm (in.)	1±4		
	Service	Camber (deg.)	-0°40'±45'	-0°35'±45' -0°4	0'±45' 0
Rear	checking	Toe-in outside track-mm (in.)	4±4		0
wheel at curb mass	Service	Camber (deg.)	-0°40'±30'	-0°35'±30' -0°4	0'±30' 0
(wt.)	reset*	Toe-in - mm (in.)	4±2		0
	Penodic	Camber (deg.)	-0°40'±45'	-0°35'±45' -0°4	0'±45' 0
	M.V. in- spection	Toe-in - mm (in.)	4±4	· · · · · · · · · · · · · · · · · · ·	0

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

Electrical	- Instrument	s and Equipment	Coupe	Sedan	Wagon		
Speed-	Type (analog, dig	Type (analog, digital, std., opt.)		nd			
ometer	Trip odometer (st	d., opt., n.a.)	Std.				
	Standard, optiona	il. not available	-				
	Туре	Secondary, opto-electronic					
Head-up	Speedometer	Digital	-				
display	Status / warning indicators	Turn signals, high beam, low fuel, check gauges	-		-		
	Brightness control	Day / night mode, adjustable	_				
EGR maintena	ince indicator		N.A.				
Charge	Туре		Warning lamp	Electric			
indicator	Warning device (light, audible)		Light				
Temperature	Туре		Analog	Electric			
indicator	Warning device (light, audible)		N.A.				
Oil pressure	Туре		Warning lamp	Electric			
indicator	Warning device (li	ght, audible)	Light				
Fuel	Туре		Analog	Electric			
indicator	Warning device (li	ght, audible)	Warning lamp	Light			
	Type (standard)		*1	Motor, 3-s	tep, Motor, 2-step (N grade		
Wind- shield	Type (optional)		*2	Motor, 3-s			
wiper	Blade length		Driver's side: 500, passenger's side: 450				
	Swept area cm2(in	1.2)	6581	6430	6430 (FWD), 6510 (4WE		
Wind-	Type (standard)		Motor				
shield washer	Type (optional)		_				
	Fluid level indicate						
Rear window w	riper, wiper/washer (std., opt., n.a.)	N.A.				
Horn	rn Type		Electric, di	sc type			
	Number used		1				
Other	Other		V grade Voltmeter Analog		-		

^{*1} Motor, 2-step, w/mist wiper, Motor, 3-step (V grade)

^{*2} Motor, 3-step, Motor, 3-step, variable (D grade, A/T)

		•	<u> </u>					
MVMA	Speci	ifications	Vehicle Line	<u>TOYOTA</u>	COROLLA	1990 -	 -	
	(U.S. Cus		Model Year _	_1991	issued July	, 1 9 9 0 P	Revised (+)	
	(-		 				-
Engine Desc Engine Code				A1	ll model		<u></u>	
Electrical	- Supply	System						
	Manufactur	'er	-				<u> </u>	
	Model, std.	, (opt.)	50D20L		Opt:	55D23L		
	Voltage		12V			12V		
D	Amps at 0°	F cold crank	270A		•	310A		
Battery	Minutes-res	serve capacity	75			90		
	Amps/hrs	20 hr. rate	50AH			60AH		
	Location		Left front in en	gine compa	artment	•		
	Manufactur	er	-					
	Rating (idle	max. rpm)	70A					
Alternator	Ratio (alt. c	rankirev.)	2.36	-	·			
Alternator	Output at ic	lie (rpm. park)	-					
	Optional (ty	pe & rating)	-					
Regulator	Туре		IC type (voltage	control)		•		·
Electrical	- Starting	g System						-
	Manufactur	er	-			-		
Motor	Current dra	in :C(*F)	-					
***************************************	Power ratin	g kw (hp)	-	<u> </u>				
	Engagemen	nt type	Shift type					
Motor inve	Pinion enga from (front.	ages rear)	Right					
Electrical	- Ignition	n System						
Turan	Electronic (std., opt., n.a.)	Std.					,
Гуре	Other (spec	cify)	N.A.					
	Manufactur	er	Nippondenso					
Coil	Model		-					
JUII	Current	Engine stopped + A	-					
	Current	Engine Idling - A	-					

Electrical - Suppression

Manufacturer

Thread (mm)

Number per cylinder Manufacturer

Tightening torque N-m (lb. ft)

Model

Gap

Model

Spark plug

Distributor

Distributor with flame spray coated rotor
Resistive cord, resistive spark plug

4A-GE: PK20R8, BKR6EP8, 4A-FE: Q16R-U, BCPR-5EY

Nippondenso, NGK

M14-19.0

Nippondenso

17.7

0.8

MVMA-91

MVMA	Speci	fications	Vehicle Line TOYO' Model Year 1991		Revised (+)
METRIC	(U.S. Cus	tomary)	Wicodel Feat	issued July,1790	7_ Hevised (*)
Body Type			Coupe	Sedan	Wagon
Body					
Structure		-	Monocoque		
	Bar m	aterial and Fr./Rr.	Urethane 4.6/6.5	Urethane 4.8/5.8 (STD)	Urethane 5.1/4.2
Bumper system front - rear	Reini	orcement ial and Fr./Rr.	Steel 10.0/13.9		Steel 9.2/9.3
Anti-corrosion t		us Information	-	2.000	
Type of finish (I	acquer, ename	el. other)	Acryl resin paint	·	
	Material & m		–	· · · · · · · · · · · · · · · · · · ·	
Hood		n (front, rear)	Rear	<u>. </u>	
		erbalance, prop)	Prop	· · · · · · · · · · · · · · · · · · ·	
		trol (internal, external)	Internal		<u> </u>
Trunk	Material & m		-		
lid		erbalance, other) se control (elec., mech., n.a.)	Counter balance	Mark1-1 N A /00	TP. 10
	Material & m.		-	Mechanical, N.A.(ST	D) N.A.
Hatch-		erbalance, other)			
back lid		se control (elec., mech., n.a.)	-		
	Material & ma		_		
Tailgate	Type (drop, ii	ift, door)	Lift		
	Internal releas	se control (elec., mech., n.a.)	Mechanical		
Vent window co	ntrol (crank.	Front			
friction, pivot, p		Rear	_		
Window regulat	or type	Front	-		
(cable, tape, fie.	c drive, etc.)	Rear	_		
Seat cushion ty		Front	Spring frame+foam pad	Panel frame+foam pad(2WD) /	Panel frame+spring+foam pad (4WI
(e.g., 60/40 buc wire, foam, etc.)	ket, banch,	Rear	Wire frame + foam pa	d	
	_	3rd seat	_		
Seat back type		Front	Spring frame+foam pad	Pipe frame + spri	
(e.g., 60/40, but wire, foam, etc.)		Rear	*1	*2	Panel frame+foam pa
		3rd seat	_		

Panel frame + foam pad (Opt. for SR5, GT-S)

^{*1:} Bord frame + foam pad (DLX, SR5)

^{*2:} Wire frame + foam pad (DLX, STD)
Panel frame + foam pad (LE)

Vehicle Line <u>TOYOTA</u> COROLLA issued July, 1990 Revised (*) Model Year _ 1991

METRIC (U.S. Customary)

Body	Type	

Coupe Sedan Wagon

Restraint	System
-----------	--------

							
Seating Positi	on		1	Left		Center	Right
	Type & description (lap & shoulder belt	*	First seat	Coupe 3 point, ELR	_		3 point, ELR
Active	tap belt, etc.)	•	Second seat	Sedan and wago 3 point, ELR	n 2 poimadj.	nt, manual	3 point, ELR
	Standard optional		Third seat	-	-		-
_	Type &		First seat	All automatic 2 point, manua lap, knee bols			Same as left
Passive	description (air bag, motorized 2-point belt, fixed belt) knee bolster, manual	elt,	Second seat	-	-		
	Standard / optional		Third seat	_	-		-
Glass		SAE Ref. No.					
Windshield gla surface area c	ass exposed m ² (in. ²)	S1	-	8935	8712		8712, 8729(4WD)
Side glass exp area cm²(in.²)	osed surface - total 2-sides	S2		8580	10060)	13814, 14384(4WD)
Backlight glass surface area co	e exposed m²(in.²)	S3		7160	7156		4242, 3776 (4WD)
Total glass exp area cm²(in.²)	posed surface	\$4		24675	25928	3	26768, 26889 (4WD)
Windshield gla	iss (type)		Lamina	ated, curved			
Side glass (typ	e)		Tempe	red, curved	·····		
Backlight glass	s (type)		Tempe	red, curved	· •		
Headlamp	8			Coupe			Sedan, Wagon
Description (se halogen, replac	ealed beam, ceable bulb. etc.)		Semi-s	table type * sealed beam, Ha	logen bulb	Semi-seale	d beam, Halogen bulb
Shape			Square	: 2		<u> </u> -	
.o-beam type (2C1, etc.	(2A1, 2B1.		_				
Quantity	·		<u>-</u>				
di-beam type (2C1, etc.)	1A1, 2A1, 1C1.		-				
Quantity							
Frame			* X an	d V grade only			
	ription (separate frame partially-unitized frame		Monoco	ock			

METRIC	(U.S. Customary)		,	
Body Type		Coupe	Sedan	Wagon
Convenie	ence Equipment (standard, option	nai, n.a.)		
Air conditionir auto, temp co	ng (manuat. ntrol) –	Opt. manual, temp	control	
Clock (digital.	analog) Digital	Srd.(V grd.), Opt.(other)	Std.(N grd.), Opt.(E	grd.), N.A.(R grd.)
Compass the	ermometer	-	<u> </u>	
Console (floor	r. overhead)	Std. for all, floo	r	
Defroster, ele	c. backlight	Std.	Opt.(R grd.), Std.(other	s) Std.
	Diagnostic monitor (integrated, ingividual)	-		
	Instrument cluster (list instruments)	-		
	Keyless entry	-		
Electronic	Tripminder (avg. spd., fuel)	-		
	Voice alert (list items)	-		
	Other	-		-4
Fuel door lock	k (remote, key, electric)	Remote		· · · · · · · · · · · · · · · · · · ·
•	Auto head on / off delay, dimming			
	Cornering	N.A.		
	Courtesy (map, reading)	Opt., map (except	R grade)	
	Door lock, ignition	N.A.		
	Engine compartment	N.A.		b-
Lamps	Fog	N.A.		
	Glove compartment	N.A.		
	Trunk	N.A.	Std,(N grade)	Std.(4WD)
	illuminated entry system (list lamps, activation)	-		
	Other	-		
	Day / night (auto. man.)	Manual		
diman	L.H. (remote, power, heated)	Remote, power or m	anual	
Mirrors	R.H. (convex. remote, power, heated)	Convex, remote pow		
	Visor vanity (RH / LH, illuminated)	_		
Navigation sy	stem (describe)	_		·
Parking brake	e-auto release (warning light)	Waring light		
				

Vehicle Line TOYOTA COROLLA

Model Year 1991 Issued July, 1990 Revised (*)

METRIC (U.S. Customary)

	T
-	I TIES

Vehicle Line TOYOTA COROLLA

Model Year 1991 Issued July, 1990 Revised (*)

Coupe	Sedan	Wagon
coupe	Sedan	Wagon

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

	Deck lid	release, pull down)	-
	Door lock describe	is (manual, automatic, system)	 -
		2 - 4 - 6 way, etc.	-
		Reclining (R.H., L.H.)	Front seat back; Yes, both
	1	Memory (R.H., L.H., preset recline)	-
	Seats	Support (lumbar, hip, thigh, etc.)	
Power equipment		Heated (R.H., L.H., other)	
	Side wind	lows	N.A.(D grd.), Opt.(others) Opt.(N grd.), N.A.(others) N.A.
	Vent wind	tows	N.A.
	Rear win	dows	N.A.
	Antenna	(location, whip, w_shield, power)	Whip, sedan & FWD wagon: A pillar, Coupe and 4WD wagon: Root
Radio systems	Standard	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM MPX ETR(V and N grade) w/o casset -AM/FM radio (FWD wagon) -AM/FM MPX ETR (R and D grd. for sedan and 4WD wagon) w/casset -AM/FM MPX ETR (All model)
	Speaker	number, location)	Rear seat speaker: Std. (N, V grd.) Opt. (D. R grd.)
Roof: open a	r or fixed (flip-	up, sliding, "T")	Sun roof (Opt: All model except 2WD wagon & R grade)
Speed contro	l device		N.A. (R grd.), Opt. (others)
Speed warnin	ng device (ligh	t. buzzer, etc.)	N.A.
Tachometer (ന്ന)		Std, opt or N.A. depending on grade
Telephone sy	rstem (describ	e)	_
Theft deterre	at system		Steering lock

\emptyset Trailer Towing

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

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

Vehicle Line TOYOTA COROLLA

Issued July, 1990 Revised (*) Model Year 1991

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	Coune	Sedan	2LID Magon	/LD Wagon
Width	Ref. No.	Coupe	Jeuan	2WD Wagon	4WD Wagon
Tread (front)	. W101	1445(V grd.), 1430(others)	1430	1430	1440
Tread (rear)		,1425(V grd.), 1410(others)		1410	1380
Vehicle width			1655	1655	1655
Body width at Sg RP (front)			1615	1615	1635
Vehicle width (front doors open)	W120		3325	3325	3325
Vehicle width (rear doors open)	W121		3195	3195	3215
Tumble-home (degrees)	W122		24°	24°	24°
Outside mirror width	W410	120,2			
Length					
Wheelbase	L101	2430			
Vehicle length	L103	4375	4325	4355	4370
Overhang (from)	L104		875	875	875
Overhang (rear)	L105		1020	1050	1065
Upper structure length	L123	2486	2560	2960	2990
Rear wheel C L "X" coordinate	L127	2430	2430	2430	2430
Height **					
Passenger distribution (front rear)	PD1.2.3		* *		
Trunk/cargo load **			0	105.4	0
Vehicle height	H101		1330	1385	1415 (1440)
Cowl point to ground	H114	850	875	875	900
Deck point to ground	H138		935		
Rocker panel-front to ground	H112	180			205
Rocker panel-rear to ground	H111	185			210
Windshield slope angle (degrees)	H122	61.9°	59°	59°	59°
Backlight slope angle (degrees)	H121		56.5°	34°	20°
Ground Clearance **	·			,	
Front bumper to ground	H102	235	235	235	255
Rear bumper to ground	H104		310	295	310
Bumper to ground front at curb mass (wt.)	H103		250	250	275
Bumper to ground rear at curb mass (wt.)	H105	395	355	340	340
Angle of approach (degrees)	H106	17.0	17.5	17.5	21.5
Angle of departure (degrees)	H107	16.0(V grd.), 15.0(others)	15.0	15.0	15.5
Ramp breakover angle (degrees)	H147	13.0(V grd.), 13.5(others)	13.5	13.5	15.5
Axle differential to ground (front/rear)	H153	_	-	-	150
Min. running ground clearance	H156	135(V grd.), 140(others)	140	140	160
Location of min. run. grd. clear.		Exhaust center p			CCRO

^{* *} 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-91 Page 21

720 925.5(925.5) 803	380 25.1° 411.9 647.2 ured With The Seating	D:208.5, P:193. D:208.5, P:193. D:208.5, P:193.
974.5(937) 1038 267.5 819.5 90° 118° D:209, P:194 D:209, P:194 1351 1261 1222.5 8 ior Dimensions Are Measure Upward of Rearmost 720 925.5(925.5) 803	380 25.1° 411.9 647.2 ured With The Seating	D:208.5, P:193. D:208.5, P:193.
974.5(937) 1038 267.5 819.5 90° 118° D:209, P:194 D:209, P:194 1351 1261 1222.5 8 ior Dimensions Are Measure Upward of Rearmost 720 925.5(925.5) 803	380 25.1° 411.9 647.2 ured With The Seating Position:	D:208.5, P:193. D:208.5, P:193.
1038 267.5 819.5 90° 118°	380 25.1° 411.9 647.2 ured With The Seating Position:	D:208.5, P:193. D:208.5, P:193.
1038 267.5 819.5 90° 118°	25.1° 411.9 647.2 ured With The Seating Position:	D:208.5, P:193.
819.5 90° 118°	25.1° 411.9 647.2 ured With The Seating Position:	D:208.5, P:193.
90° 118°	25.1° 411.9 647.2 ured With The Seating Position:	D:208.5, P:193.
118° D:209, P:194 D:209, P:194 1351 1261 1222.5	25.1° 411.9 647.2 ured With The Seating Position:	D:208.5, P:193.
118° D:209, P:194 D:209, P:194 1351 1261 1222.5	25.1° 411.9 647.2 ured With The Seating Position:	D:208.5, P:193.
D:209, P:194 D:209, P:194 1351 1261 1222.5 8 ior Dimensions Are Measure Upward of Rearmost 720 925.5 (925.5) 803	25.1° 411.9 647.2 ured With The Seating Position:	D:208.5, P:193.
D:209, P:194 1351 1261 1222.5 	25.1° 411.9 647.2 ured With The Seating Position:	D:208.5, P:193.
D:209, P:194 1351 1261 1222.5 	25.1° 411.9 647.2 ured With The Seating Position:	D:208.5, P:193.
D:209, P:194 1351 1261 1222.5 8 ior Dimensions Are Mess mm Upward of Rearmost 720 925.5 (925.5) 803	25.1° 411.9 647.2 ured With The Seating Position:	1247.5
1351 1261 1222.5 	25.1° 411.9 647.2 ured With The Seating Position:	Reference Point (SgRP)
1261 1222.5 	25.1° 411.9 647.2 ured With The Seating Position:	Reference Point (SgRP)
1222.5 8 ior Dimensions Are Meas mm Upward of Rearmost 720 925.5 (925.5) 803	25.1° 411.9 647.2 ured With The Seating Position:	Reference Point (SgRP)
720 925.5 (925.5)	25.1° 411.9 647.2 ured With The Seating Position:	Reference Point (SgRP)
720 925.5 (925.5)	411.9 647.2 ured With The Seating Position:	Reference Point (SgRP)
720 925.5 (925.5)	647.2 ured With The Seating Position:	Reference Point (SgRP)
720 925.5 (925.5)	ured With The Seating Position:	Reference Point (SgRP)
720 925.5 (925.5)	Position:	
720 925.5(925.5) 803	Position:	
720 925.5(925.5) 803		999(942.5)
803	999	999(942.5)
		805
305		290
-15	9	-14
1339(D grd.), 1328	B(N grd.), 1363.5(F	R grd.) 1339
1363.5(D grd.), 127	2.5(N grd.), 1228.5((R grd.) 1061
1228.5	<u> </u>	1253.5
27°		
84.5°		83.5°
73.5°	· · · · · · · · · · · · · · · · · · ·	74.5°
114°		116°
8		
360	354	275
		545
	· · · · · · · · · · · · · · · · · · ·	1 - ,
	360 595	360 354

Vehicle Line TOYOTA COROLLA

Trunk / cargo index (cu. ft.)

All linear dimensions are in millimeters (inches).

MVMA Specifications

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

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

Venicle Line <u>TOYOTA</u> COROLLA **MVMA** Specifications Model Year 1991 issued July, 1990 Revised (*) **METRIC (U.S. Customary)** Vehicle Dimensions See Key Sheets for definitions **Body Type** 2WD Wagon 4WD Wagon SAE Ref. No. Station Wagon - Third Seat Seat facing direction SD1 L85 SgRP couple distance W85 Shoulder room W86 Hip room Effective leg room L86 H86 Effective head room SgRP to heel point H87 j -L87 Knee clearance L88 Back angle (degrees) Hip angle (degrees) L89 **| -**Knee angle (degrees) L90 L91 Foot angle (degrees) Station Wagon - Cargo Space Cargo length (open front) L200 L201 Cargo length (open second) 1683 1708 Cargo length (closed front) L202 964.5 Cargo length (closed second) 203يا 947 1567 1493 L204 Cargo length at belt (front) L205 735 672.5 Cargo length at belt (second) 973 Cargo width (wheelhouse) W201 834 W203 1085 1110 Rear opening width at floor w204 1225.5 Opening width at belt 438.5 Min. rear opening width above beit W205 803 624.5 Cargo height (W/sun roof) H201 870.5 830.5 (787) Rear opening height H202 803.5 763.5 H250 * Tailgate to ground height Front seat back to load floor height H197 400.5 438.5 Cargo volume index m³(ft.³)(w/sun_roof) V2 1.827 1.660 (1.573) Hidden cargo volume index m³(ft.3) (w/sun roof) V4 0.857 0.748(0.709)Cargo volume index-rear of 2-seat (v/sun roof) 0.740 0.607 (0.575)Hatchback - Cargo Space

Cargo length at front seatback height	208 ا	-
Cargo length at floor (front)	L209	_
Cargo length at second seatback height	L210	
Cargo length at floor (second)	1211	•
Front seatback to load floor height	H197	-
Second seatback to load floor height	H198	-
Cargo volume index m³(ft.³)	V3	
Hidden cargo volume index m3(ft.3)	V4	•
Cargo volume index-rear of 2-seat	V11	

^{*} EPA Loaded Vehicle Weight, Loading Conditions

Vehicle Line TOYOTA COROLLA

.v. v .v.		=	Model Year 1991 Issued	July, 1990 Revised (*)
METRI	C (U.:	S. Customary)		
Body Typ	• [Coupe	4WD Wagon	Others
Vehicle	ے Fiduc	iai Marks		
Fiducial Ma Number*	ark	_	Define Coordinate Location	
			<u> </u>	
Front		Center of installation floor (both sides)	on hole for seat track outer	in cross member of front
Rear		Coupe: Center of installa (both sides)	ation hole for rear seat bel	lt in center floor
		Others:	6 1 . 1	autam asharilhana
		Installation hole inner (both sides)	for seat belt anchor in qua)	arter wheelhouse
Fiductal Mark Number				
	W21*	W5+70.5	W5+65	W5+70.5
	L54°	L19+90	L19+82	L19+90
ront	H81"	H10+73.5	н10+83	H10+73.5

•	W21*	W5+70.5	W5+65	W5+70.5
	L54°	L19+90	L19+82	L19+90
Front	H81*	н10+73.5	н10+83	H10+73.5
	H161*	290	325	290
**	H163*	260	295	260

	W22*	W5+40	W5+32	W5+70.7	
	L55°	L30+20	L31+43.5	L31+25.5	
lear	H82*	H11+4.5	H11+67	H11+88	
	H162*	325	420	415	
**	H164*	295	380	380	

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

All Linear dimensions are in millimeters (inches).

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

⊘MVMA Specifications **METRIC (U.S. Customary)**

Vehicle Line <u>TOYOTA</u>	COROLLA	
Model Year 1991	ssued July,199	O Revised (•)

Vehicle Mass (weight)				% PASS MASS DISTRIBUTIO				
	CURB MASS	S. kg. (lb.)*	SHIPPING		Pass	ın Front	Pass ii	n Rear
Front	Rear	Total	MASS kg(lb)***	ETWC** Code	Front	Rear	Front	Rea
609	429	1038	1006	0	44	56	16	84
602	422	1024	992	0	44	56	16	84
636	431	1067	1035	0	44	56	16	84
611	424	1035	1003	0	44	56	16	84
654	434	1088	1056	Р	44	56	16	84
609	424	1033	1001	0	45	55	16	84
598	424	1022	990	0	45	55	16	84
609	429	1038	1006	0	45	55	16	84
598	426	1024	992	0	. 45	55	16	84
632	435	1067	1035	0	45	55	16	_84
600	433	1033	1001	0	45	55	16	84
618	445	1063	1031	0	45	55	16	84
605	438	1043	1011	0	45	55	16	84
679	540	1219	1187	R	45	55	16	84
656	541	1197	1165	R	45	55	16	84
<u> </u>							 	
 								
-								
							<u> </u>	
	609 602 636 611 654 609 598 609 598 632 600 618 605	Front Rear 609 429 602 422 636 431 611 424 654 434 609 424 598 424 609 429 598 426 632 435 600 433 618 445 605 438 679 540	609 429 1038 602 422 1024 636 431 1067 611 424 1035 654 434 1088 609 424 1033 598 424 1022 609 429 1038 598 426 1024 632 435 1067 600 433 1033 618 445 1063 605 438 1043 679 540 1219	Front Rear Total SHIPPING MASS kg(lb)*** 609 429 1038 1006 602 422 1024 992 636 431 1067 1035 611 424 1035 1003 654 434 1088 1056 609 424 1033 1001 598 424 1022 990 609 429 1038 1006 598 426 1024 992 632 435 1067 1035 600 433 1033 1001 618 445 1063 1031 605 438 1043 1011 679 540 1219 1187	Front Rear Total MASS kg(lb)**** ETWC*** Code 609 429 1038 1006 0 602 422 1024 992 0 636 431 1067 1035 0 611 424 1035 1003 0 654 434 1088 1056 P 609 424 1033 1001 0 598 424 1022 990 0 609 429 1038 1006 0 598 426 1024 992 0 632 435 1067 1035 0 600 433 1033 1001 0 618 445 1063 1031 0 605 438 1043 1011 0 679 540 1219 1187 R	Front Rear Total MASS kg(lb)**** ETWC*** Front 609 429 1038 1006 0 44 602 422 1024 992 0 44 636 431 1067 1035 0 44 611 424 1035 1003 0 44 654 434 1088 1056 P 44 609 424 1033 1001 0 45 598 424 1022 990 0 45 609 429 1038 1006 0 45 598 426 1024 992 0 45 632 435 1067 1035 0 45 600 433 1033 1001 0 45 618 445 1063 1031 0 45 605 438 1043 1011 0 45 <tr< td=""><td>Front Rear Total MASS kg(b)**** ETWC*** Code Front Rear 609 429 1038 1006 0 44 56 602 422 1024 992 0 44 56 636 431 1067 1035 0 44 56 611 424 1035 1003 0 44 56 654 434 1088 1056 P 44 56 609 424 1033 1001 0 45 55 598 424 1022 990 0 45 55 598 426 1024 992 0 45 55 632 435 1067 1035 0 45 55 600 433 1033 1001 0 45 55 618 445 1063 1031 0 45 55 679 540<td>Front Rear Total MASS kg(lb)*** ETWC*** Front Rear Front 609 429 1038 1006 0 44 56 16 602 422 1024 992 0 44 56 16 636 431 1067 1035 0 44 56 16 611 424 1035 1003 0 44 56 16 654 434 1088 1056 P 44 56 16 609 424 1033 1001 0 45 55 16 598 424 1022 990 0 45 55 16 609 429 1038 1006 0 45 55 16 598 426 1024 992 0 45 55 16 632 435 1067 1035 0 45 55 16 <</td></td></tr<>	Front Rear Total MASS kg(b)**** ETWC*** Code Front Rear 609 429 1038 1006 0 44 56 602 422 1024 992 0 44 56 636 431 1067 1035 0 44 56 611 424 1035 1003 0 44 56 654 434 1088 1056 P 44 56 609 424 1033 1001 0 45 55 598 424 1022 990 0 45 55 598 426 1024 992 0 45 55 632 435 1067 1035 0 45 55 600 433 1033 1001 0 45 55 618 445 1063 1031 0 45 55 679 540 <td>Front Rear Total MASS kg(lb)*** ETWC*** Front Rear Front 609 429 1038 1006 0 44 56 16 602 422 1024 992 0 44 56 16 636 431 1067 1035 0 44 56 16 611 424 1035 1003 0 44 56 16 654 434 1088 1056 P 44 56 16 609 424 1033 1001 0 45 55 16 598 424 1022 990 0 45 55 16 609 429 1038 1006 0 45 55 16 598 426 1024 992 0 45 55 16 632 435 1067 1035 0 45 55 16 <</td>	Front Rear Total MASS kg(lb)*** ETWC*** Front Rear Front 609 429 1038 1006 0 44 56 16 602 422 1024 992 0 44 56 16 636 431 1067 1035 0 44 56 16 611 424 1035 1003 0 44 56 16 654 434 1088 1056 P 44 56 16 609 424 1033 1001 0 45 55 16 598 424 1022 990 0 45 55 16 609 429 1038 1006 0 45 55 16 598 426 1024 992 0 45 55 16 632 435 1067 1035 0 45 55 16 <

^{*} 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	ND		
A	= 1000	1	= 2000	Q	= 3000	Y	= 4000
Ð	= 1125	J	= 2125	A	= 3125	Z	= 4250
Ç	= 1250	K	= 2250	S	= 3250	ĀA	= 4500
Ō	= 1375	L.	= 2375	T	= 3375	88	= 4750
Ę	≖ 1500	M	= 2500	U	= 3500	CC	= 5000
F	= 1625	N	= 2625	V	= 3625	DĎ	= 5250
G	= 1750	0	= 2750	W	= 3750	EE	= 5500
Н	= 1875	P	≖ 2875	X	= 3875	FF	= 5750

* Shipping Mass (weight)	≃ Curb Weight Less: 32	kg

MVMA Specifications METRIC (U.S. Customary)

Vehicle Line	TOYOTA	COROLLA		
Model Year	1991	Issued July, 1990	Revised (•)	

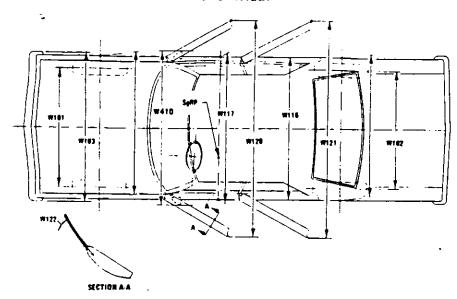
	Optional Equipment Differential Mass (weight)*				
		MASS, kg.	(fb.)		
Code Equipment	Front	Rear	Total	Remarks Restrictions, Requirements	
Air conditioner	21	0	21		
Deven attention					
Power steering	9.5	0	9 9 5	2WD 4WD	
			7.7	- 4WD	
Radio and speaker	3.5	1.2	4.7	Coupe, Sedan	
	1.0	2.0	1.4	Wagon	
	2.5	2.0	4.5	4WD	
Cruise control	2.8	0	2.8	2WD	
	2.1	0	2.1	4WD	
Sun roof	5.7	8.5	14.2	Coupe, Sedan	
	7.8	11.6	19.4	Wagon (4WD)	
Power window	2.3	2.3	6.7 4.6	Sedan, N grd.	
	2.3	2.3	4.0	Coupe, X grd., V grd.	
Side mud guard	2.7	2.7	5.4	AE92L-ACMVFA	
Mud guard	0.6	0.7	1.3	All models	
Side protection mouldings	0.6	0.6	1.2	DLX (2WD only)	
Tilt steering	1.3	0	1.3	All but AE92L-ACMVFA	
Battery	2.5	0	2.5	2WD	
	3.6	Ö	3.6	4WD	
Sport seat	1.5	1.9	3.4	AE92L-ACMVFA	
Rear window wiper	-0.2	1.7	1.5	Wagon, D grd.	
Package tray trim	0	2.3	2.3	AE92L-AWMDKA, AWHDKA	
Floor mat	1.8	1.8	3.6	AE95 series	
					
		 			
		1			
			•		

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

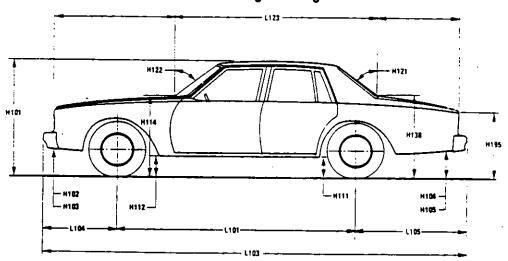
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions - Key Sheet

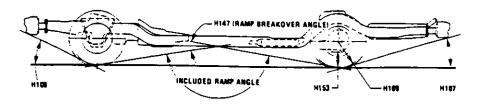
Exterior Width



Exterior Length & Height



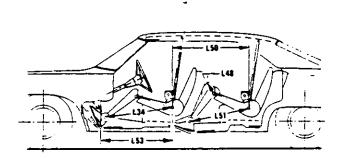
Exterior Ground Clearance

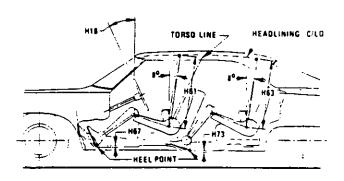


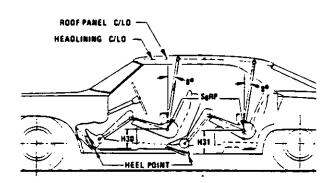
MVMA Specifications Form

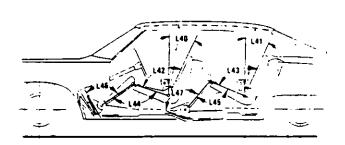
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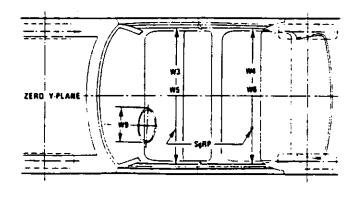
Interior Vehicle And Body Dimensions - Key Sheet

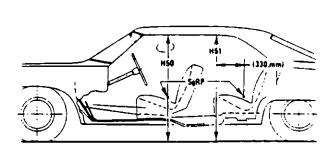










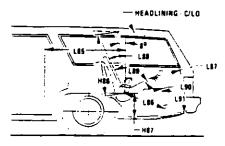


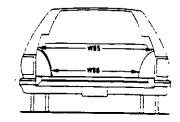
MVMA Specifications Form

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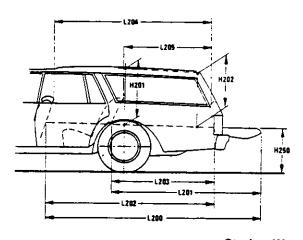
Interior Vehicle And Body Dimensions - Key Sheet

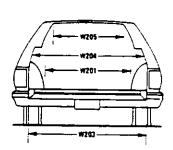
Third Seat



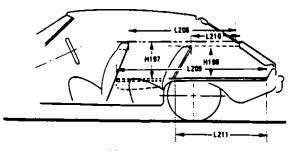


Cargo Space





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

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

BODY WIDTH AT SQRP-FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, 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.
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.

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

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 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.

UPPER STRUCTURE LENGTH. The dimension measured L123 longitudinally from the cowl point to the deck point.

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axies, 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 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.

COWL POINT TO GROUND. Measured at zero "Y" plane. BACKLIGHT SLOPE ANGLE. The angle between the H114 H121

vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord

of backlight arc from lower DLO to upper DLO.
WINDSHIELD SLOPE ANGLE. The angle between the H122 vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the venicle 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.

DECK POINT TO GROUND. Measured at zero "Y" plane. H138

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 dimeria. ... 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.

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

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

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 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 H153 dimension measured from the rear axle differential to

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

METRIC (U.S. Customary)

Glass Areas

Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

GIESS	Areas	W5	HIP ROOM - FRONT. The minimum dimension measured
S1	Windshield area.		laterally between the trimmed surfaces on the "X" plane
S2	Side windows area, Includes the front door, rear door, vents,		through the SgRP - front within 25 mm (1.0 in.) below and
	and rear quarter windows on both sides of the vehicle.		76 mm (3.0 in.) above the SgRP - front and 76 mm (3.0 in.)
S3	Backlight areas.		fore and aft of the SgRP - front.
S4	Total area. Total of all areas (S1 - S2 - S3).	W9	STEERING WHEEL MAXIMUM OUTSIDE DIAMETER.
0 4	Total area. Total of all areas (51 - 52 - 55).		Define if other than round.
Fidue	ial Mark Dimensions	H7	ACCELERATOR HEEL POINT TO THE STEERING WHEEL
		,	CENTER The dimension manufactured washedly from the
	Fiducial Mark - Number 1		CENTER. The dimension measured vertically from the
L54	"X" coordinate.		AHP - front to the intersection of the steering column
W21	"Y" coordinate.		centerline to a plane tangent to the upper surface of the
H81	"Z" coordinate.		steering wheel rim.
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.
11103		H30	SgRP-FRONT TO HEEL. The dimension measured
L55	Fiducial Mark - Number 2		vertically from the SgRP - front to the accelerator heel point.
	"X" coordinate.	H50	UPPER BODY OPENING TO GROUND - FRONT. The
W22	"Y" coordinate.		dimension measured vertically from the trimmed body
W82	"Z" coordinate.		opening to the ground on the CoDD. From "Y" along
H162	Height "Z" coordinate to ground at curb weight.	UE+	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 -
L 11			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		onest 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 SgRP – 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.
		L45	KNEE ANGLE - SECOND. The angle measured between
	The dimension measured horizontally between a point on	-	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-17	the lower log contoring and a line tenant to the hell and
	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).		(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		seatback minus 51 mm (2.0 in.).
		L50	SgRP COUPLE DISTANCE—SECOND. The dimension
	center to the SgRP – front plus 254 mm (10.0 in.) measured		measured horizontally from the driver SgRP - front to the
	with right foot on the undepressed accelerator pedal. For		SqRP - second.
	vehicles with SgRP to heel (H30) greater than 18 in., the	L51	- M
	accelerator pedal may be depressed as specified by the	LJI	MINIMUM EFFECTIVE LEG ROOM-SECOND. The di-
	manufacturer. If the accelerator is depressed, the manufac-		mension measured along a line from the ankle pivot center
	turer shall place foot flat on pedal and note the depression		to the SgRP – second plus 254 mm (10.0 in.).
	of the pedal.	W4	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 SgRP - front and the torso line. If		surfaces on the "X" plane through the SqRP-second at
	the spathack is adjustable uponthe second decreased at a second second at the second s		height between 254-406 mm (10.0-16.0 in.) above the
	the seatback is adjustable, use the normal driving and riding		SgRP-second, excluding the door assist straps and
1 40	position specified by the manufacturer.		attaching parts.
L-42	HIP ANGLE - FRONT. The angle measured between torso	W6	HIP ROOM - SECOND. Measured in the same manner as
	line and thigh centerline.	****	W5.
L44	KNEE ANGLE-FRONT. The angle measured between	1104	
	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	FOOT ANGLE - FRONT. The angle measured between the		device heel point on the depressed floor covering.
•	lower leg centertine and a line tangent to the ball and heel	H51	UPPER BODY OPENING TO GROUND - SECOND. The
	of the bare feet fleet line measured on the circle ball and neel		dimension measured vertically from the trimmed body
	of the bare foot flesh line measured on the right leg. Ref		opening to the ground on the "X" plane 330 mm (13.0 in.)
	SAE J826.		forward of the SgRP - second.
1			EFFECTIVE HEAD ROOM-SECOND. The dimension
L53	SgRP-FRONT TO HEEL. The dimension measured		
L53	horizontally from the SgRP-front to the accelerator heel	H63	
L53	horizontally from the SgRP-front to the accelerator heel point.	H63	measured along a line 8 deg. rear of vertical from the SgRP
L53 W3	horizontally from the SgRP-front to the accelerator heel point.		measured along a line 8 deg, rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
	horizontally from the SgRP-front to the accelerator heel point. SHOULDER ROOM-FRONT. The minimum dimension	H63	measured along a line 8 deg, rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.). FLOOR COVERING - DEPRESSED - SECOND. The di-
	horizontally from the SgRP-front to the accelerator heel point. SHOULDER ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the		measured along a line 8 deg, rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
	horizontally from the SgRP – front to the accelerator heel point. SHOULDER ROOM – FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP – front at height between the		measured along a line 8 deg, rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.). FLOOR COVERING - DEPRESSED - SECOND. The di-
	horizontally from the SgRP-front to the accelerator heel point. SHOULDER ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front at height between the bett line and 254 mm (10.0 in.) above the SgRP-front.		measured along a line 8 deg, rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.). FLOOR COVERING - DEPRESSED - SECOND. The dimension measured vertically from the heel point to the
	horizontally from the SgRP – front to the accelerator heel point. SHOULDER ROOM – FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP – front at height between the		measured along a line 8 deg, rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.). FLOOR COVERING - DEPRESSED - SECOND. The dimension measured vertically from the heel point to the

W5

HIP ROOM-FRONT. The minimum dimension measured

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.
- 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 £41.
- L89 HIP ANGLE-THIRD. Measured in the same manner as
- 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 - Cargo Space Dimensions

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

- L202 CARGO LENGTH-CLOSED-FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH CLOSED SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT-FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level: For any vehicle not trimmed, measure to the sheet metal.
- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum mension measured laterally between the limiting in ferences 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.
- 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:

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**

HIDDEN LUGGAGE CAPACITY - REAR OF FRONT SEAT. V4 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:

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

٧6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

Measured in mm:

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.
STATION WAGON CARGO VOLUME INDEX. V10

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).

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.
CARGO LENGTH AT FLOOR - FRONT - HATCHBACK.

L209 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 olane.

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.

CARGO LENGTH AT FLOOR - SECOND HATCHBACK. L211 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.

SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seatback to the undepressed floor covering. ٧3 HATCHBACK.

Measured in inches:

Measured in mm:

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

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

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

Measured in inches:

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

Measured in mm:

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

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our Wheel Drive	10	Transmission - Manual	2
ame	18	Tread	
nnt Suspension		Trunk Cargo Load	
ont Wheel Drive Unit	10	Trunk Luggage Capacity	
uel Economy, EPA	1	Turning Diameter	
uel Injection		Unitized Construction	
uel System	6	Universal Joints, Propeller Shaft	
uel Tank		Valve System	
lass		Valve System	
adlamos	18	Width	
eadroom = Body	22, 23	Length	
mohts	21	Height	
OFFIS	15	Ground Clearance	
orsepower - Brake,	, 2	Front Compartment	
nition System	16	Rear Compartment	
flation - Tires	13	Luggage Compartment .	* * *
terior Volumes		Station Wagon - Third Seat	•
struments		Station Wagon — Cargo Space	
groom	22, 23	Fiducial Marks	
noths	21	Voltage Regulator	
veling. Suspension		- · · ·	
tters. Valve	4 p 19	Water Pump	25
nings - Clutch, Brake		Weights	
ubrication - Engine Transmission Transaxie	22	Wheelbase	
довре соправлент		Wheels & Tires	÷
lodeis ,		Whee! Spindle	
Actor Starting	7	Widths	
AUTAできょうしょうしょうしょうしょうしょうしょうしょうしゃく		Vigshield	
Origin ,		Windshield Wiper and Washer	