

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

# 1998

*Corolla*

<b>Manufacturer</b> NEW UNITED MOTOR MANUFACTURING, INC. TOYOTA MOTOR MANUFACTURING, CANADA	<b>Vehicle Line</b>  TOYOTA COROLLA	
<b>Mailing Address</b>  TOYOTA MOTOR SALES, U.S.A., INC. 19001 S. Western Avenue Torrance, CA 90509	<b>Issued</b>  Aug., 1997	<b>Revised</b>

Direct questions concerning these specifications to the manufacturer listed above.

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



Motor Vehicle Manufacturers Association  
of the United States, Inc.

Forms Provided by Technical Affairs Division

# MVMA Specifications

METRIC (U.S. Customary)

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### NOTE:

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

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 Issued Aug., 1997 Revised( )

METRIC(U.S. Customary)

## Vehicle Origin

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

## Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
IZZ-FE, 4-door Sedan, FWD					
VE grade, 5M/T		ZZE110L-DEMRKA	2/3	45	31/38
3A/T		ZZE110L-DEHRKA	2/3	45	28/33
CE grade, 5M/T		ZZE110L-DEMDKA	2/3	45	31/38
4A/T		ZZE110L-DEPDKA	2/3	45	28/36
LE grade, 5M/T		ZZE110L-DEMNKA	2/3	45	31/38
4A/T		ZZE110L-DEPNKA	2/3	45	28/36

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

## MVMA Specifications

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**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	B	C	D
E N G I N E	Engine Code		1ZZ-FE	←	←	
	Displacement Liters (in³)		1.794(109.5)	←	←	
	Induction system (FI, Carb, etc.)		EFI	←	←	
	Compression ratio		10.0	←	←	
	SAE Net at RPM	Power kW (bhp)	89(120) @5600	←	←	
		Torque N • m (lb. ft.)	165(122) @4400	←	←	
	Exhaust single, dual		Single	←	←	
T R A N S	Transmission/ Transaxle		5 M/T	3 A/T	4 A/T	
	Effective Final Drive / Axle Ratio (std. first)		3.722	3.421	2.655	

[illegible]

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 Issued Aug., 1997 Revised (+) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

All models

### ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		Inline, front, transverse, DOHC, pentroof
Manufacturer		TOYOTA
No. of cylinders		4
Bore		79
Stroke		91.5
Bore spacing (C / L to C / L)		87.5
Cylinder block material & mass kg (lbs.) (machined)		Aluminum alloy, 25.5
Cylinder block deck height		222.42
Cylinder block length		399.6
Deck clearance (minimum) (above or below block)		Above, 2.4
Cylinder head material & mass kg (lbs.)		Aluminum alloy, 10.3
Cylinder head volume cm³ (inches³)		35.2
Cylinder liner material		Cast iron
Head gasket thickness (compressed)		0.58
Minimum combustion chamber total volume cm³ (inches³)		49.8
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4
	R. Bank	
Firing order		1-3-4-2
Intake manifold material & mass kg (lbs.)**		Aluminum alloy, 2.8
Exhaust manifold material & mass kg (lbs.)**		SUS, 2.6
Knock sensor (number & location)		1, Cylinder block
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) + 2		87
Engine mounts	Quantity	
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	
	Added isolation (sub-frame, crossmember, etc.)	
Total dressed engine mass (wt) dry***		M/T= 105, A/T= 98.

### Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy, 254
--	---------------------

### Engine - Camshaft

Location		Cylinder head
Material & mass kg (weight, lbs.)		Cast iron, IN: 1.6, EX: 1.5
Drive type	Chain / belt	Chain
	Width / pitch	12.5/8.0

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

\*\* Finished state.

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

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## METRIC (U.S. Customary)

Engine Description  
Engine Code

All models

### Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	N.A.
Valves	Number intake / exhaust
	2/2
	Head O.D. intake / exhaust
	32/27.5

### Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Steel, 472
Length (axes C/L to C/L)	146.65

### Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Steel, 14.3
End thrust taken by bearing (no.)	No.3
Length & number of main bearings	460.5, 5
Seal (material, one, two piece design, etc.)	Front
	Rear
	Synthetic rubber one piece
	Synthetic rubber one piece

### Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	290 kPa / 5200 rpm
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full flow
Capacity of c/case, less filter-refill-L (qt.)	3.5

### Engine - Diesel Information

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

### Engine - Intake System

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

\* Finished State

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## METRIC (U.S. Customary)

Engine Description  
Engine Code

All models

### Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Std.
Coolant fill location (rad., bottle)	Radiator
Radiator cap relief valve pressure kPa (psi)	
Circulation thermostat	By-pass
Type (choke, bypass)	76
Starts to open at °C (°F)	Centrifugal
Type (centrifugal, other)	15 liter/min
GPM 1000 pump rpm	1
Number of pumps	V-ribbed belt
Drive (V-belt, other)	Double row ball bearing
Bearing type	SUS
Impeller material	Aluminum
Housing material	Internal
By-pass recirculation type (inter., ext.)	
With heater - L(qt.)	M/T= 5.8, A/T= 5.7
With air conditioner - L(qt.)	M/T= 5.8, A/T= 5.7
Opt. equipment specify - L(qt.)	N.A.
Cooling system capacity	
Water jackets full length of cyl. (yes, no)	No.
Water all around cylinder (yes, no)	No.
Water jackets open at head face (yes, no)	Yes
Radiator core	Std.
Std., A/C, HD	Vertical flow
Type (cross-flow, etc.)	Corrugated fin
Construction (fin & tube mechanical, braze, etc.)	
Material, mass kg (wgt., lbs.)	Aluminum, M/T= 1.4, A/T= 1.5 or 2.0
Width	641 or 639
Height	349 or 348
Thickness	16 or 18
Fins per inch	Pitch= M/T: 3.0, A/T: 2.25
Radiator end tank material	Plastics
Std., elec., opt.	Electric
Number of blades & type (flex, solid, material)	5 or 7, plastics
Number & location (front, rear of radiator)	w/A/C: 2, w/o A/C: 1, rear of radiator
Diameter & projected width	300/70 or 110
Ratio (fan to crankshaft rev.)	N.A.
Fan cutout type	Temperature controlled
Drive type (direct, remote)	Electric motor
RPM at idle (elec.)	2140
Motor rating (wattage/elec.)	w/A/C: 80 + 80, w/o A/C: 80
Motor switch (type & location/elec.)	
Switch point (temp./pressure/elec.)	
Fan shroud (material)	Plastics

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Engine Description  
 Engine Code

All models

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

Induction type: carburetor, fuel injection system, etc.		Fuel injection
Manufacturer		DENSO
Carburetor no. of barrels		N.A.
Idle A/F mix.		Not adjustable
Fuel injection	Point of injection (no.)	4
	Constant, pulse, flow	Pulse flow
	Control (electronic, mech.)	Electronic
	System pressure kPa (psi)	324
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	700
	Automatic	650
Intake manifold heat control (exhaust or water thermostatic or fixed)		N.A.
Air cleaner type		Paper element type
Fuel filter (type/location)		Tank
Fuel pump	Type (elec. or mech.)	Electronic
	Location (eng., tank)	Tank
	Pressure range kPa (psi)	324
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	50 at 284

### Fuel Tank

Capacity refill L (gallons)		50
Location (describe)		Under the rear seat
Attachment		Fastened with bands and bolts
Material & Mass kg (weight lbs.)		Carbon steel, 11.7
Filler pipe	Location & material	Rear wheel house LH steel
	Connection to tank	Rubber hose
Fuel line (material)		Steel tube
Fuel hose (material)		Nylon tube
Return line (material)		(Not Applied)
Vapor line (material)		Nylon tube, rubber hose
Extended range tank	Opt., n.a.	N.A.
	Capacity L (gallons)	-
	Location & material	-
	Attachment	-
Auxiliary tank	Opt., n.a.	N.A.
	Capacity L (gallons)	-
	Location & material	-
	Attachment	-
	Selector switch or valve	-
	Separate fill	-



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All models

## Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		EFI / $\dot{O}_2$ / TWC
	Air Injection	Pump or pulse	N.A.
		Driven by	N.A.
		Air distribution (head, manifold, etc.)	N.A.
		Point of entry	N.A.
	Exhaust Gas Recirculation	Type (controlled flow, open on/off, other)	N.A.
		Exhaust source	N.A.
		Point of exhaust injection (spacer, carburetor, manifold, other)	N.A.
	Catalytic Converter	Type	TWC
		Number of	1
		Location(s)	Under floor
		Volume L (in <sup>3</sup> )	1.291
		Substrate type	Ceramic monolith
		Noble metal type	Pt, Rh
		Noble metal concentration (g/cm <sup>3</sup> )	Pt= 1.03(Fed.), 1.74(Cal.), Rh= 0.194(Fed.), 0.323(Cal.)
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction system close type
	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum
	Discharges to (intake manifold, other)		Intake manifold
	Air inlet (breather cap, other)		Throttle body
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	—
Electronic system	Vapor storage provision		Charcoal
	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

## Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs)		1: Straight thru, 1: Reverse flow, Stainless steel, 2.8, 6.5
Resonator no. & type		N.A.
Exhaust pipe	Branch o.d., wall thickness	N.A.
	Main o.d., wall thickness	48.6, 1.5
	Material & Mass kg (weight lbs)	Stainless steel, 1.5
Inter-mediate pipe	o.d. & wall thickness	48.6, 1.2
	Material & Mass kg (weight lbs)	Stainless steel, 8.1 w/ TWC
Tail pipe	o.d. & wall thickness	48.6, 1.0
	Material & Mass kg (weight lbs)	Stainless steel, 2.5

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## METRIC (U.S. Customary)

Engine Description  
Engine Code

All models

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

Manual 4-speed (manufacturer/country)	—
Manual 5-speed (manufacturer/country)	Std. TOYOTA/JAPAN
Manual 6-speed (manufacturer/country)	—
Automatic (manufacturer/country)	Std. TOYOTA/JAPAN
Automatic overdrive (manufacturer/country)	Std. AISIN AW/JAPAN

## Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.166
	2nd	1.904
	3rd	1.310
	4th	0.885
	5th	0.725
	6th	—
	Reverse	3.250
Synchronous meshing (specify gears)		All forward speeds
Shift lever location		Floor
Trans. case mat'l. & mass kg (lbs)*		Aluminum Die Cast
Lubricant	Capacity L (pt.)	1.9
	Type recommended	API GL-4 or GL-5

## Clutch (Manual Transmission)

Clutch manufacturer	AISIN SEIKI	
Clutch type (dry, wet; single, multiple disc)	Dry, Single	
Linkage (hydraulic, cable, rod, lever, other)	Hydraulic	
Max. pedal effort (nom. spring load) N (lbs)	Depressed	120
	Released	120
Assist (spring, power/percent, nominal)	0	
Type pressure plate springs	Diaphragm spring	
Total spring load (nominal) N (lbs)	4900	
Clutch facing	Facing mfg. & material coding	AISIN CHEMICAL
	Facing material & construction	Semi-mold
	Rivets per facing	16
	Outside x inside dia. (nominal)	212 x 140
	Total eff. area cm <sup>2</sup> (in. <sup>2</sup> )	199
	Thickness (pressure plate side/ty wheel side)	3.5/3.5
	Rivet depth (pressure plate side/ty wheel side)	1.6/1.6
	Engagement cushion method	Wave spring segments
Release bearing type & method lub.	Self-centering ball bearing with permanent lubrication	
Torsional damping method, springs, hysteresis	Single-stage torsional rubbers	

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

# MVMA Specifications

Vehicle Line **TOYOTA COROLLA**

Model Year **1998**

Issued **Aug., 1997**

Revised (-)

## METRIC (U.S. Customary)

Engine Description  
Engine Code

3A/T

4A/T

## Automatic Transmission/Transaxle

Trade Name	A131L	A245E
Type and special features (describe)	3-speed, hydraulically controlled planetary gear train with lock-up clutch torque CONVERTER	4-speed, electronically controlled planetary gear train with lock-up clutch torque CONVERTER
Shift mechanics	Hydraulically controll	Electronically controll
Gear selector	Location (column, floor, other)	floor
	Ltr./No. designation (e.g. PRND21)	P-R-N-D-2-L
	Shift interlock (yes, no, describe)	Yes
Gear ratios	1st	2.810
	2nd	1.549
	3rd	1.000
	4th	—
	Reverse	2.296
	Final drive ratio	3.421
Max. upshift vehicle speed - drive range km/h (mph)		110
Max. upshift engine speed RPM		5291
Max. kickdown speed - drive range km / h (mph)		104
Min. overdrive speed km / h (mph)		—
Torque converter	Type	N.A.
	Torus design	N.A.
	Number of elements	3 elements, 1st stage, 2-Phases
	Max. ratio at stall	2.00
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	230
	Capacity factor "K"	N.A.
Pump type		
Lubricant	Capacity refill L (pt.)	2.5(Dryfill 5.5)
	Type recommended	D- II or DEXRON® II, DEXRON® III
Oil cooler (std., opt., N.A., internal, external, air, liquid)		In radiator liquid
Transmission mass kg (lbs) & case material**		71.8, aluminum die cast

## All Wheel / 4 Wheel Drive

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

\* Input speed ÷ /Torque

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

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Vehicle Line TOYOTA COROLLA  
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## METRIC (U.S. Customary)

Engine Description  
 Engine Code

All models

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

Effective final drive ratio (or overall top gear ratio)			3A/T= 3.421, 4A/T= 2.655
Transfer ratio and method (chain, gear, etc.)			—
Front drive unit	Ring gear o.d.		N.A.
	No. of teeth	Pinion	3A/T= 19, 4A/T= 29
		Ring gear	3A/T= 65, 4A/T= 77

### Front Drive Unit

Description (integral to trans., etc.)		Integral to trans
Limited slip differential (type)		N.A.
Drive pinion	Type	Helical
	Offset	N.A.
No. of differential pinions		2
Pinion / differential	Adjustment (shim, etc.)	N.A.
	Bearing adjustment	N.A.
Driving wheel bearing (type)		Double row angular contact ball bearing
Lubricant	Capacity L (pt.)	3A/T= 1.4, 4A/T= Included in trans
	Type recommended	D-II or DEXRON® II, DEXRON® III

### Axle Shafts -- Front Wheel Drive

Manufacturer and number used			Delphi Saginaw, 2	
Type (straight, solid bar, tubular, etc.)		Left	Solid	
		Right	Solid	
Outer diam. x length* x wall thickness	Manual transaxle	Left	22.0 x 340.1	
		Right	27.86 x 657.3	
	Automatic transaxle	Left	22.0 x 340.1	
		Right	27.86 x 657.3	
	Optional transaxle	Left		
		Right		
Slip yoke	Type		N.A.	
	Number of teeth		N.A.	
	Spline o.d.		N.A.	
Universal joints	Make and mfg. no.		Inner	Delphi Saginaw
			Outer	Delphi Saginaw
	Number used			4=2 each shaft
	Type, size, plunge		Inner	Toripod, Plunge
			Outer	Rzeppa, Fixed
	Attach (u-bolt, clamp, etc)			Snap ring
	Bearing	Type (plain, anti-friction)		N.A.
		Lubrication (fitting, prepack)		N.A.
Drive taken through (torque tube, arms or springs)				MacPherson strut
Torque taken through (torque tube, arms or springs)				Engine mounting system

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

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
Model Year 1998 Issued Aug., 1997 Revised (+) \_\_\_\_\_

## METRIC (U.S. Customary)

Model Code/Description And/Or  
Engine Code/Description

All models

### Suspension – General Including Electronic Controls

Car leveling	Standard/optional/not avail.	N.A.
	Manual/automatic control	—
	Type (air/hydraulic)	—
	Primary/assist spring	—
	Rear only/4 wheel leveling	—
	Single/dual rate spring	—
	Single/dual ride heights	—
	Provision for jacking	—
Shock absorber damping controls	Standard/option/not avail.	N.A.
	Manual/automatic control	—
	Number of damping rates	—
	Type of actuation (manual/ electric motor/air, etc.)	—
	s e n s o r s	Lateral acceleration
		Deceleration
		Acceleration
		Road surface
Shock absorber (front & rear)	Type	Tube double acting / Tube double acting
	Make	KAYABA / KAYABA
	Piston diameter	30.2 / 30.2
	Rod diameter	20 / 20

### Suspension – Front

Type and description		MacPherson strut
Travel	Full jounce (define load condition)	80
	Full rebound	85
Spring	Type (coil, leaf, other & material)	Coil, alloy steel
	Insulators (type & material)	Top and bottom, rubber
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	See page 11-2
	Spring rate (N/mm (lb./in.))	w/ Fr. Stabi. = 16.5, w/o Fr. Stabi. = 18.5
	Rate at wheel (N/mm (lb./in.))	w/ Fr. Stabi. = 17.5, w/o Fr. Stabi. = 19.5
Stabilizer	Type (link, linkless, frameless)	w/ Fr. Stabi. = Link
	Material & O.D. bar/tube, wall thickness	w/ Fr. Stabi. = Alloy steel, 22

### Suspension – Rear

Type and description		MacPherson strut
Travel	Full jounce (define load condition)	85
	Full rebound	100
Spring	Type (coil, leaf, other & material)	Coil, alloy steel
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	346.5 x (128.9 - 88.9) or 346.4 x (128.9 - 88.9)
	Spring rate (N/mm (lb./in.))	16
	Rate at wheel (N/mm (lb./in.))	15
	Insulators (type & material)	Top and bottom, rubber
	If leaf	No. of leaves
		Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & O.D. bar/tube, wall thickness	Alloy steel, w/ Fr. Stabi. = 14, w/o Fr. Stabi. = 13
Track bar (type)		—

# MVMA Specifications

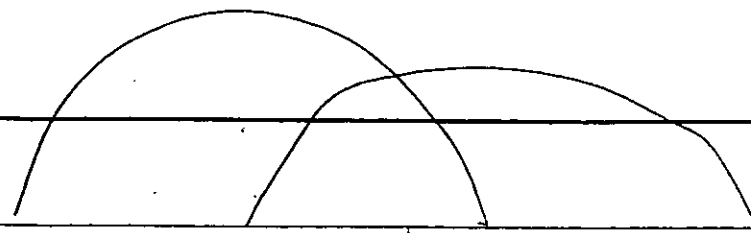
METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

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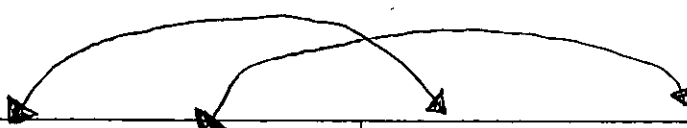
Spring Size

1) with Fr. Stabilizer



	LH		RH	
	w/o A/C	w/ A/C	w/o A/C	w/ A/C
M/T	355.0 x 127.9	364.0 x 127.9	355.0 x 127.9	364.0 x 127.9
<del>A/T</del>	364.0 x 127.9	382.0 x 127.9	373.0 x 127.9	382.0 x 127.9

2) without Fr. Stabilizer



	LH		RH	
	w/o A/C	w/ A/C	w/o A/C	w/ A/C
M/T	335.5 x 127.9	343.5 x 127.9	335.0 x 127.9	343.5 x 127.9
<del>A/T</del>	343.5 x 127.9	359.5 x 127.9	351.5 x 127.9	359.5 x 127.9

# MVMA Specifications

Vehicle Line **TOYOTA COROLLA**

Model Year **1998** Issued **Aug., 1997** Revised (+)

## METRIC (U.S. Customary)

Model Code/Description And/Or  
Engine Code/Description

Normal

with ABS

### Brakes - Service

Description			
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	AMBRAKE HOUSEI, Disc (Std.)	
	Rear (disc or drum)	AMBRAKE HOUSEI, Drum (Std.)	
Valving type (proportion, delay, metering, other)		P-valve	
Power brake (std., opt., n.a.)		Std.	
Booster type (remote, integral, vac., hyd., etc.)		Integral, vacuum	
Vacuum	Source (inline, pump, etc.)	Inline	
	Reservoir (volume in. <sup>3</sup> )	N.A.	
	Pump-type (elec, gear driven, belt driven)	N.A.	
Traction assist	Operational speed range	N.A.	
	Type (engine or brake intervention)	N.A.	
Anti-lock device	Front / rear (std., opt., n.a.)	—	Front and Rear= Opt.
	Manufacturer	—	Actuator= AISIN, Computer= DENSO
	Type (electronic, mech.)	—	Electronic
	Number sensors or circuits	—	4
	Number anti-lock hydraulic circuits	—	4
	Integral or add-on system	—	Integral
	Yaw control (yes, no)	—	Yes
	Hydraulic power source (elec., vac, mtr., pwr. strg.)	—	Electronic motor
Effective area cm <sup>2</sup> (in. <sup>2</sup> )*		140 / 230	
Gross Lining area cm <sup>2</sup> (in. <sup>2</sup> )*(F/R)		158 / 230	
Swept area cm <sup>2</sup> (in. <sup>2</sup> )*(F/R)		1226 / 377	
Rotor	Outer working diameter	F/R	255 / N.A.
	Inner working diameter	F/R	156 / N.A.
	Thickness	F/R	22 / N.A.
	Material & type (vented/solid)	F/R	Cast iron, vented / N.A.
Drum	Diameter & width	F/R	N.A. / 200
	Type and material	F/R	N.A. / Cast iron
Wheel cylinder bore		53.97 / 17.46	
Master cylinder		Bore/stroke	
		F/R	20.6/28 / 20.6/28
Pedal arc ratio		3.6	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]		11783	
Lining clearance		F/R	Self adjust / Self adjust
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	
		Bonded	
		Rivet size	
		—	
		Manufacturer	
		NISSHINBO, AKEBONO, AISIN, SUMITOMO, BENDIX	
		Lining code*****	
		Material	
		Molded resin	
		****	Primary or out-board
		88 x 50 x 11	
		Size	Secondary or in-board
		88 x 50 x 11	
		Shoe thickness (no lining)	
		5.5	
	Rear wheel	Bonded or riveted (rivets/seg.)	
		Bonded	
		Manufacturer	
		NISSHINBO, AKEBONO	
		Lining code*****	
		Material	
		Molded resin	
		****	Primary or out-board
		192 x 30 x 4	
		Size	Secondary or in-board
		192 x 30 x 4	
		Shoe thickness (no lining)	
		1.6	

\* Excludes rivet holes, grooves, chamfers, etc. \*\* Includes rivet holes, grooves, chamfers, etc.

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

\*\*\*\* Size for drum brakes includes length x width x thickness. \*\*\*\*\* Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 Issued Aug., 1997 Revised (+) \_\_\_\_\_

## METRIC (U.S. Customary)

Model Code/Description And/Or  
 Engine Code/Description

All models

### Tires And Wheels (Standard)

Tires	Size (service description)		P175 / 65R14 81S(R,D grade), P185 / 65R14 85S(N grade)
	Type (bias, radial, steel, nylon, etc.)		Radial, steel or polyester and steel
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	210
		Rear kPa (psi)	210
	Rev./mile-at 70 km/h (45 mph)		R, D grade: 903.8 / 926.3, N grade: 880.8 / 900.3
Wheels	Type & material		Steel
	Rim (size & flange type)		14 x 5.5J
	Wheel offset		45
	Attachment	Type (bolt or stud & nut)	Stud
		Circle diameter	100
Spare	Number & size		4-M12 x 1.5
	Tire and wheel		T115 / 70D14(R, D grade), T125 / 70D14(N grade)
	Storage position & location (describe)		Flat in trunk well

### Tires And Wheels (Optional)

Tire size (service description)		R grade: 175 / 65R14 81S
Type (bias, radial, steel, nylon, etc.)		R grade: Radial, steel or polyester and steel
Wheel (type & material)		R grade: Steel
Rim (size, flange type and offset)		R grade: 14 x 5.5J
Tire size (service description)		R, D grade: 185/65R14 85S
Type (bias, radial, steel, nylon, etc.)		R, D grade: Radial, steel or polyester and steel
Wheel (type & material)		R, D grade: Steel
Rim (size, flange type and offset)		R, D grade: 14 x 5.5J
Tire size (service description)		185 / 65 R 14 85S
Type (bias, radial, steel, nylon, etc.)		Radial, steel or polyester and steel
Wheel (type & material)		Aluminum
Rim (size, flange type and offset)		14 x 5.5JJ
Tire size (service description)		—
Type (bias, radial, steel, nylon, etc.)		—
Wheel (type & material)		—
Rim (size, flange type and offset)		—
Spare tire and wheel size (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		175 Tire= T115 / 70D14, 185 Tire= T125 / 70D14

### Brakes – Parking

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



# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 - Issued Aug., 1997 Revised (\*) \_\_\_\_\_

## METRIC (U.S. Customary)

Model Code/Description And/Or  
 Engine Code/Description

All models

### Steering

Manual (std., opt., n.a.)			N.A.	
Power (std., opt., n.a.)			Std.	
Speed-sensitive (std., opt., n.a.)			N.A.	
4-wheel steering (std., opt., n.a.)			N.A.	
Adjustable steering wheel/column (tilt, telescope, other)		Type	R grade=Non adjustable/Tilt, D, N grade=Tilt	
		Manufacturer	NASTECH	
		(std., opt., n.a.)	R grade=Std./Opt., D, N grade=Std.	
Wheel diameter** (W9) SAE J1100		Manual	380	
		Power	380	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.4	
		Curb to curb (l. & r.)	9.8	
	Inside rear	Wall to wall (l. & r.)	5.1	
		Curb to curb (l. & r.)	5.2	
Scrub Radius*			8	
Manual	Gear	Type	N.A.	
		Manufacturer	N.A.	
		Ratios	Gear	N.A.
			Overall	N.A.
	No. wheel turns (stop to stop)		N.A.	
Power	Type (coaxial, elec., hyd., etc.)		Integral, hydraulic	
	Manufacturer		TRW-KOYO	
	Gear	Type	Rack and pinion	
		Ratios	Gear	40.01
			Overall	18.1
	Pump (drive)		V-belt	
No. wheel turns (stop to stop)		3.27		
Linkage	Type		Tie rod directly attached to rack end	
	Location (front or rear of wheels, other)		Front of wheels	
	Tie rods (one or two)		Two	
Steering axis	Inclination at camber (deg.)		12° 35'	
	Bearings (type)	Upper	Ball bearing	
		Lower	Ball joint	
		Thrust	N.A.	
Steering spindle/knuckle & joint type			MacPherson strut and ball joint	

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

\*\* See Page 23.

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 Issued Aug., 1997 Revised (+) \_\_\_\_\_

## METRIC (U.S. Customary)

Model Code/Description And/Or  
 Engine Code/Description

All models

### Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	1° 19' ± 45'
		Camber (deg.)	-11' ± 45'
		Toe-in outside track-mm (in.)	1 ± 2
	Service reset*	Caster (deg.)	1° 19' ± 30'
		Camber (deg.)	-11' ± 30'
		Toe-in - mm (in.)	1 ± 1
	Periodic M.V. inspection	Caster (deg.)	N.A.
		Camber (deg.)	N.A.
		Toe-in - mm (in.)	N.A.
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-55' ± 45'
		Toe-in outside track-mm (in.)	4 ± 2
	Service reset*	Camber (deg.)	-55' ± 30'
		Toe-in - mm (in.)	4 ± 1
	Periodic M.V. inspection	Camber (deg.)	N.A.
		Toe-in - mm (in.)	N.A.

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

### Electrical – Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)		Analog, Std.
	Trip odometer (std., opt., n.a.)		Std.
Head-up display	Standard, optional, not available		N.A.
	Type	Secondary, opto-electronic	—
	Speedometer	Digital	—
	Status / warning indicators	Turn signals, high beam, low fuel, check gauges	—
	Brightness control	Day / night mode, adjustable	—
EGR maintenance indicator			—
Charge indicator	Type		Tell-tale lamp
	Warning device (light, audible)		Light
Temperature indicator	Type		Electric gage
	Warning device (light, audible)		N.A.
Oil pressure indicator	Type		Tell-tale lamp
	Warning device (light, audible)		Light
Fuel indicator	Type		Electric gage
	Warning device (light, audible)		Light
Windshield wiper	Type (standard)		
	Type (optional)		
	Blade length		
	Swept area cm <sup>2</sup> (in. <sup>2</sup> )		
Windshield washer	Type (standard)		
	Type (optional)		
	Fluid level indicator (light, audible)		N.A.
Rear window wiper, wiper/washer (std., opt., n.a.)			
Horn	Type		Electrical
	Number used		1
Other			—

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 Issued Aug., 1997 Revised (+) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Code/Description

All models

### Electrical – Supply System

Battery	Manufacturer	
	Model, std., (opt.)	
	Voltage	
	Amps at 0°F cold crank	
	Minutes-reserve capacity	
	Amps/hrs.-20 hr. rate	
	Location	
Alternator	Manufacturer	DENSO-TENNESSEE
	Rating (idle/max. rpm)	12V-80A
	Ratio (alt. crank/rev.)	2.36
	Output at idle (rpm, park)	--
	Optional (type & rating)	--
Regulator	Type	IC type

### Electrical – Starting System

Motor	Manufacturer	DENSO-TENNESSEE
	Current drain _____ °C(°F)	--
	Power rating kw (hp)	Std.: 12V-1.2kw, Opt.: 12V-1.4kw
Motor drive	Engagement type	Solenoid shift
	Pinion engages from (front, rear)	From front

### Electrical – Ignition System

Type	Electronic (std., opt., n.a.)	Std.
	Other (specify)	--
Coil	Manufacturer	DENSO
	Model	N.A.
	Current	Engine stopped – A 0
		Engine Idling – A 0.6 x 2
Spark plug	Manufacturer	DENSO, NGK
	Model	K16TR, BKR5EKB
	Thread (mm)	14
	Tightening torque N-m (lb.-ft.)	18.0
	Gap	1.1
	Number per cylinder	1
Distributor	Manufacturer	N.A.
	Model	N.A.

### Electrical – Suppression

Locations & type	High resistance high tension cord High resistance spark plug
------------------	---

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
Model Year 1998 Issued Aug., 1997 Revised (+) \_\_\_\_\_

## METRIC (U.S. Customary)

Model Code/Description

All models

### Body

Structure	Unitized body structure
Bumper system front - rear	P.P. cover, energy absorber foam and reinforcement (front and rear)
Anti-corrosion treatment	Extensive use of galvanealed steel sheet and double-layered zinc-iron alloy coated steel sheet, PVC sealer, full dip pretreatment cation ED, PVC under coat, chip resistant coat

### Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		Enamel
Hood	Material & mass	Steel, 16
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Material & mass	Steel, 8
	Type (counterbalance, other)	Counter balance
	Internal release control (elec., mech., n.a.)	Mechanical
Hatch-back lid	Material & mass	—
	Type (counterbalance, other)	—
	Internal release control (elec., mech., n.a.)	—
Tailgate	Material & mass	—
	Type (drop, lift, door)	—
	Internal release control (elec., mech., n.a.)	—
Vent window control (crank, friction, pivot, power)	Front	N.A.
	Rear	N.A.
Window regulator type (cable, tape, flex drive, etc.)	Front	Arm and sector gear
	Rear	Arm and sector gear
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Panel frame + foam pad
	Rear	Wire frame + foam pad
	3rd seat	—
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	See page 17-2
	Rear	See page 17-2
	3rd seat	—

### Frame

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

METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

Vehicle Line TOYOTA COROLLA  
Model Year 1998 Issued Aug., 1997 Revised (-) \_\_\_\_\_

Seat back type

(R grade)

	Normal	w / Side airbag
Front	Pipe frame + wire + foam pad	Pipe frame + wire + foam pad + airbag
Rear	Wire frame + foam pad	←

(D, N grade)

	Normal	w / Side airbag	w / CRS	w / Side airbag w / CRS
Front	Pipe frame + wire + foam pad	Pipe frame + wire + foam pad + airbag	Pipe frame + wire + foam pad	Pipe frame + wire + foam pad + airbag
Rear	60/40 split fold down RH(40), LH(60): panel frame + foam pad	←	60; split fold down 40; split fixed RH(40) integrated CRS; wire frame + panel frame + plastic board + foam pad LH(60); panel frame + foam pad	←

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 Issued Aug., 1997 Revised (-) \_\_\_\_\_

## METRIC (U.S. Customary)

Model Code/Description

All models

## Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	3-point ELR with pretensioner and force limiter (Std.)	N.A.	3-point ALR / ELR with pretensioner and force limiter (Std.)
	Standard / optional	Second seat	3-point ALR / ELR (Std.)	3-point ALR / ELR (Std.)	3-point ALR / ELR (Std.)
		Third seat	N.A.	N.A.	N.A.
Passive	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual - lap belt)	First seat	Airbag (Std.)	N.A.	Airbag (Std.)
	Standard / optional	Second seat	N.A.	N.A.	N.A.
		Third seat	N.A.	N.A.	N.A.

Glass	SAE Ref. No.	
Windshield glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> )	S1	8660
Side glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> ) - total 2-sides	S2	10080
Backlight glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> )	S3	7030
Total glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> )	S4	25770
Windshield glass (type / thickness)		Curved, laminated, t= 4.8
Side glass (type / thickness)		Curved, tempered, t= 3.5
Backlight glass (type / thickness)		Curved, tempered, t= 3.5
Tinted (yes / no, location)		Green windshield, side and backlight glass
Solar control (yes / no, coated / batched, location)		No

## Headlamps

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

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 Issued Aug., 1997 Revised (+) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Code/Description

All models

### Climate Control System

Air conditioning (std., opt., man., auto.)		Manual: Opt., Automatic: N.A.
Condenser	Type	NCS (Corrugate fin and serpentine tube type)
	Eff. face area (sq. mm.)	216776 (686 W x 316 H)
	Fins per inch	7.056
Evaporator	Type	ST(Drawn cup type)
	Eff. face area (sq. mm.)	52250 (237.5 W x 220 H)
	Fins per inch	6.35
Heater core	Material	Aluminum
	Eff. face area (sq. mm.)	26950 (220 W x 122.5 H)
	Fins per inch	9.071
Compressor	Type	10PA15C
	Displacement (cc.)	155.3
	Manufacturer	MICHIGAN AUTOMATIVE COMPRESSOR, Inc.
	A/C pulley ratio	0.93
Accumulator	Type	—
	Height (mm.)	—
	Diameter (mm.)	—
Receiver	Type	Full flow
	Height (mm.)	167
	Diameter (mm.)	60
Refrigerant control (CCOT, TVS, etc.)		—
Heater water valve (yes / no)		No
Refrigerant (R - 12, R - 134a, etc.)		HFC-134a
Charge level (lbs. - oz.)		1.43 lbs / 22.93 oz
Cold engine lockout switch (yes / no)		—
Wide open throttle cutout switch (yes / no)		—

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 - Issued Aug., 1997 Revised(•) \_\_\_\_\_

METRIC(U.S. Customary)

Model Code/Description

All models

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

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



# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 Issued Aug., 1997 Revised(•) \_\_\_\_\_

METRIC(U.S. Customary)

Model Code/Description

All models

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

Power equipment	Deck lid(release, pull down)		N.A.
	Door locks(manual, automatic, describe system)		Manual; Opt. (R, D grade), Std. (N grade)
	Seats	2-4-6 way, etc.	N.A.
		Reclining(R.H., L.H.)	N.A.
		Memory(R.H.,L.H.,preset recline)	N.A.
		Support(lumber, hip, thigh, etc.)	N.A.
		Heated(R.H., L.H., other)	N.A.
	Side windows		Opt. (R, D grade), Std. (N grade)
	Vent windows		N.A.
Rear windows		N.A.	
Radio systems	Antenna(location, whip, w/shield, power)		Front pillar
	Standard	AM,FM, stereo,tape, compact disc,graphic equalizer, theft deterrent,radio prep package, headphone jacks,etc.	Radio less
	Optional		AM / FM MPX ETR (R grade) AM / FM MPX ETR, cassette AM / FM MPX ETR, CD
	Speaker(number, location)		Std.= 2, front + door, Opt.= 4, front + door + rear tray
	Roof: open air or fixed(flip-up, sliding, "T" )		Opt., sliding / flip-up
Speed control device		—	
Speed warning device(light, buzzer, etc.)		N.A.	
Tachometer(rpm)		8000	
Telephone system(describe)		—	
Theft deterrent system		—	

## Trailer Towing

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

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

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 Issued Aug., 1997 Revised (-) \_\_\_\_\_

## METRIC (U.S. Customary)

### Vehicle Dimensions See Key Sheets for definitions

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

Model Code/Description	SAE Ref. No.	All models
------------------------	--------------	------------

#### Width

Tread (front)	W101	1460
Tread (rear)	W102	1450
Vehicle width	W103	1695
Body width at Sg RP (front)	W117	1689
Vehicle width (front doors open)	W120	3364
Vehicle width (rear doors open)	W121	3318
Turn-in angle (degrees)	W122	24.0°
Outside mirror width	W410	1865

#### Length

Wheelbase	L101	2465
Vehicle length	L103	4420
Overhang (front)	L104	890
Overhang (rear)	L105	1065
Upper structure length	L123	2634
Rear wheel C/L "X" coordinate	L127	

#### Height \*\*

Passenger distribution (front/rear)	PD1,2,3	**
Trunk/cargo load		**
Vehicle height	H101	1365
Cowl point to ground	H114	880
Deck point to ground	H138	990
Rocker panel-front to ground	H112	180
Rocker panel-rear to ground	H111	195
Windshield slope angle (degrees)	H122	59.0°
Backlight slope angle (degrees)	H121	62.5°

#### Ground Clearance \*\*

Front bumper to ground	H102	195
Rear bumper to ground	H104	305
Bumper to ground front at curb mass (wt.)	H103	215
Bumper to ground rear at curb mass (wt.)	H105	330
Angle of approach (degrees)	H106	16°
Angle of departure (degrees)	H107	15°
Ramp breakover angle (degrees)	H147	12°
Axle differential to ground (front/rear)	H153	140 / N.A.
Min. running ground clearance	H156	120
Location of min. run. grd. clear.		Front lower arm bracket

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

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

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
Model Year 1998 Issued Aug., 1997 Revised (-) \_\_\_\_\_

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Model Code/Description

All models

SAE  
Ref.  
No.

## Front Compartment

SgRP front, "X" coordinate	L31	1340.0
Effective head room	H61	998
Max. eff. leg room (accelerator)	L34	1079.7
SgRP to heel point	H30	253.1
SgRP to heel point	L53	885.7
Back angle (degrees)	L40	21.0°
Hip angle (degrees)	L42	95.0°
Knee angle (degrees)	L44	128.9°
Foot angle (degrees)	L46	80.5°
Design H-point front travel	L17	239.1
Normal driving & riding seat track trvl.	L23	239.1
Shoulder room	W3	1341
Hip room	W5	1283
*** Upper body opening to ground	H50	1215
Steering wheel maximum diameter*	W9	380
Steering wheel angle (degrees)	H18	24.2°
Accel. heel pt. to steer. whl. cntr	L11	467
Accel. heel pt. to steer. whl. cntr	H17	624
Undepressed floor covering thickness	H67	19.8

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

## Rear Compartment

SgRP point couple distance	L50	732
Effective head room	H63	937
Min. effective leg room	L51	843.3
SgRP (second to heel)	H31	285.9
Knee clearance	L48	-23.6
Shoulder room	W4	1326
Hip room	W6	1300
*** Upper body opening to ground	H51	1222
Back angle (degrees)	L41	27°
Hip angle (degrees)	L43	82.8°
Knee angle (degrees)	L45	75.0°
Foot angle (degrees)	L47	115.7°
Depressed floor covering thickness	H73	10.5

## Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	343
*** Lifter height	H195	620

## Interior Volumes (EPA Classification)

Vehicle class	Compact
Interior volume index including trunk/cargo (cu. ft.)**	100.1
Trunk/cargo index (cu. ft.)	12.1

\* See page 14.

\*\* See definition page 33.

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

\*\*\* EPA Loaded Vehicle Weight, Loading Conditions

# MVMA Specifications

Vehicle Line TOYOTA COROLLA  
Model Year 1998 Issued Aug., 1997 Revised (\*)

## METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Model Code/Description

All models

### Station Wagon / MPV\* - Third Seat

SAE  
Ref.  
No.

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

### Station Wagon / MPV\* - Cargo Space

Cargo length (open front)	L200	—
Cargo length (open second)	L201	—
Cargo length (closed front)	L202	—
Cargo length (closed second)	L203	—
Cargo length at belt (front)	L204	—
Cargo length at belt (second)	L205	—
Cargo width (wheelhouse)	W201	—
Rear opening width at floor	W203	—
Opening width at belt	W204	—
Min. rear opening width above belt	W205	—
Cargo height	H201	—
Rear opening height	H202	—
** Tailgate to ground height	H250	—
Front seat back to load floor height	H197	—
Cargo volume index m <sup>3</sup> (ft. <sup>3</sup> )	V2	—
Hidden cargo volume index m <sup>3</sup> (ft. <sup>3</sup> )	V4	—
Cargo volume index-rear of 2-seat	V10	—
Cargo volume index*	V6	—
Cargo width at floor*	W500	—
Maximum cargo height*	H505	—

### Hatchback - Cargo Space

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

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

\*MPV - Multipurpose Vehicle

\*\* EPA Loaded Vehicle Weight, Loading Conditions

# MVMA Specifications

## METRIC (U.S. Customary)

Vehicle Line TOYOTA COROLLA  
 Model Year 1998 Issued Aug., 1997 Revised (\*) \_\_\_\_\_

Model Code/  
Description

All models

### Vehicle Fiducial Marks

Fiducial Mark  
Number\*

Define Coordinate Location

Front(1) Center of front semi-circular knotch in rocker panel flange for front jack-up point.

Front(2)

Rear(1) Center of rear semi-circular knotch in rocker panel flange for rear jack-up point.

Rear(2)

Note: Provide  
3 of 4  
Fiducial Mark  
Locations

Front	W21**	W6 + 43
	L54**	L14 + 56
	H81**	H9 + 79
	*** H161**	190
	*** H163**	165

Rear	W22**	W6 + 43
	L55**	L30 + 22
	H82**	H9 + 79
	*** H162**	205
	*** H164**	180

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

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

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

\*\*\* EPA Loaded Vehicle Weight, Loading Conditions

## MVMA Specifications

Vehicle Line TOYOTA COROLLA  
Model Year 1998 Issued Aug., 1997 Revised(•) \_\_\_\_\_

**METRIC(U.S. Customary)**

[illegible]

\*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.

Refer to ETWC code legend below for test weight class.

## ETWC LEGEND

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

\*\*\*Shipping Mass(weight)=Curb Weight Less: 32

**METRIC (U.S. Customary)**

Vehicle Line TOYOTA COROLLA  
Model Year 1998 Issued Aug., 1997 Revised (•) \_\_\_\_\_

[illegible]

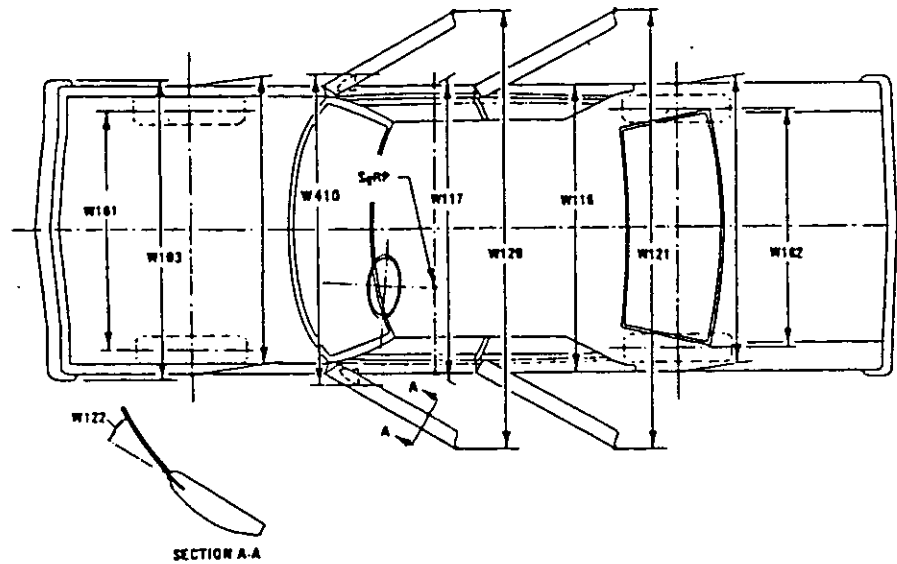
\* Also see Engine - General Section for dressed engine mass (weight).

# MVMA Specifications

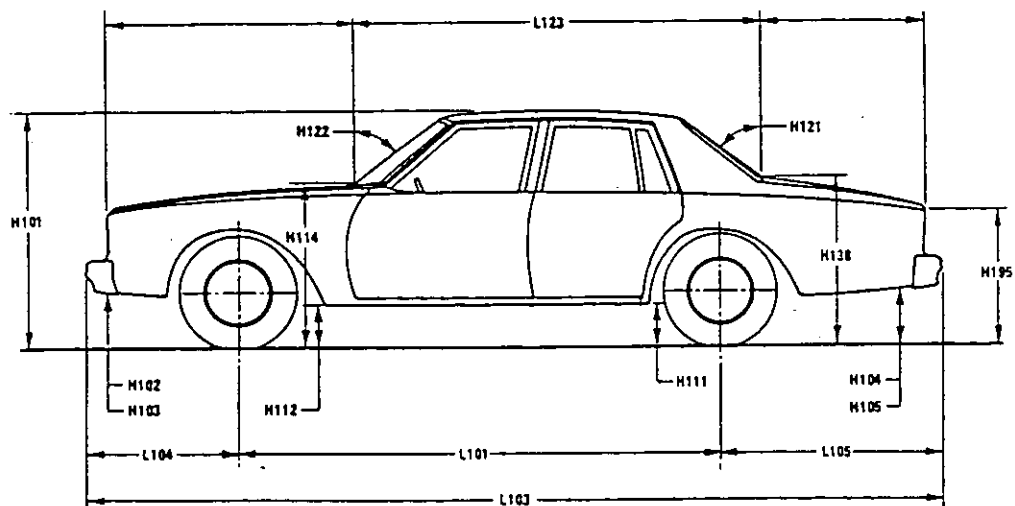
## METRIC (U.S. Customary)

### Exterior Vehicle And Body Dimensions – Key Sheet

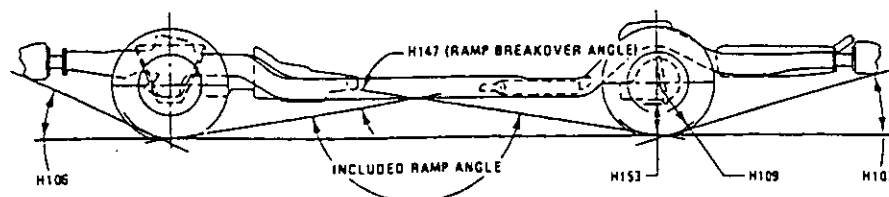
Exterior Width



Exterior Length & Height



Exterior Ground Clearance

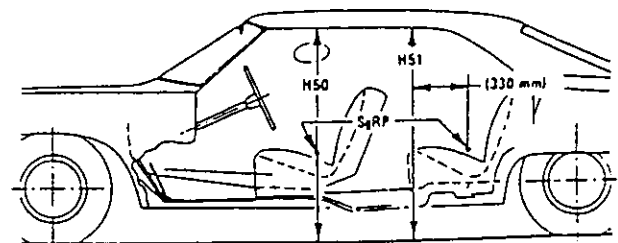
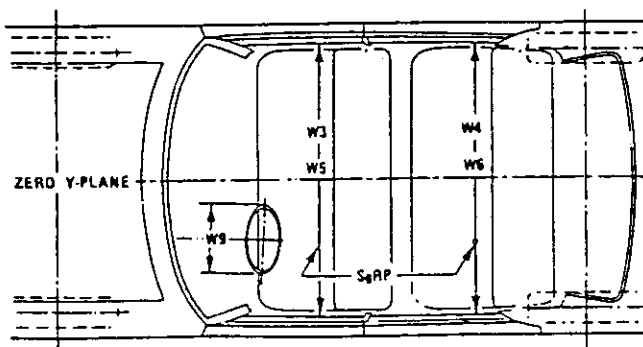
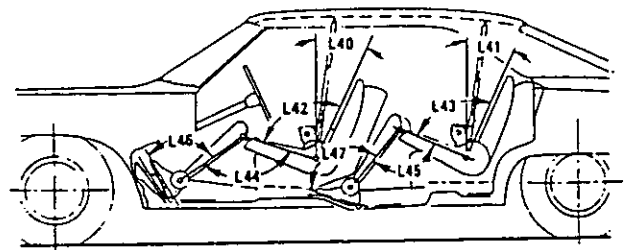
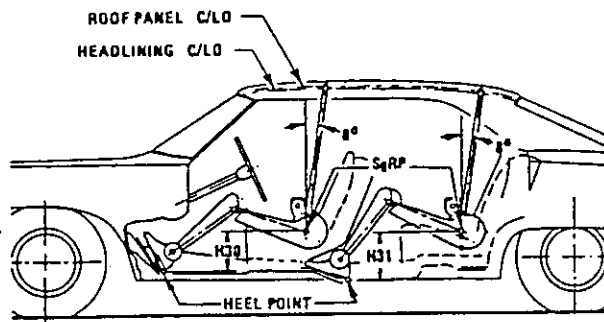
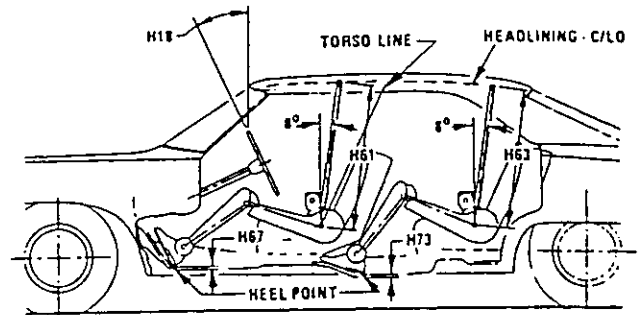
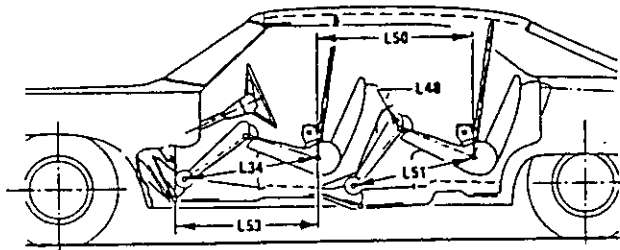




# MVMA Specifications Form

METRIC (U.S. Customary)

## Interior Vehicle And Body Dimensions – Key Sheet

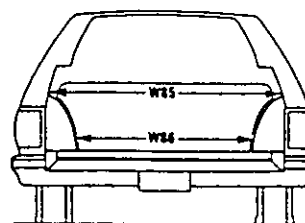
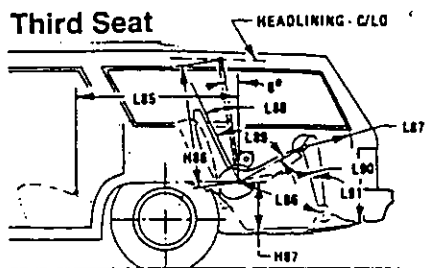


# MVMA Specifications

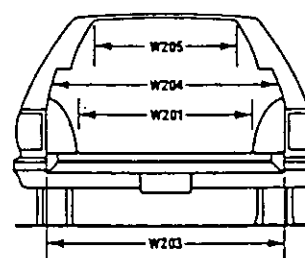
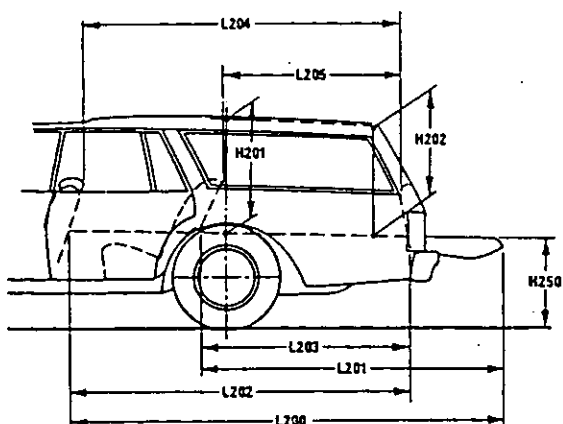
METRIC (U.S. Customary)

## Interior Vehicle And Body Dimensions – Key Sheet

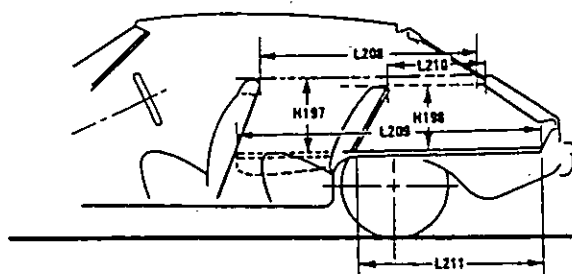
Third Seat



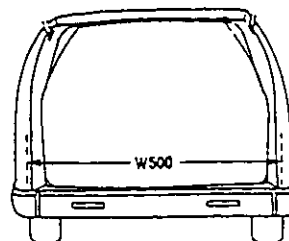
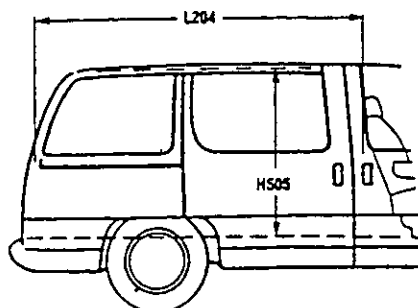
Cargo Space



Station Wagon



Hatchback



Multipurpose Vehicle

# MVMA Specifications

## METRIC (U.S. Customary)

### Exterior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

#### Seating Reference Point

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

#### Width Dimensions

- W101 TREAD – FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD – REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- W117 BODY WIDTH AT SgRP – FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH – FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH – REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE – HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.  
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.
- W410 OUTSIDE MIRROR WIDTH. The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

#### Length Dimensions

- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHAND – FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L105 OVERHANG – REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

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

- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.

#### Height Dimensions

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

#### Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H102.
- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

# MVMA Specifications

## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

#### Glass Areas

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

#### Fiducial Mark Dimensions

##### Fiducial Mark – Number 1

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

##### Fiducial Mark – Number 2

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

#### Front Compartment Dimensions

- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT – FRONT TRAVEL. The dimension measured horizontally between the design H-point – front in the foremost and rearmost seat track positions. (See SAE J1100)
- L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100).
- L31 SgRP – FRONT, "X" COORDINATED.
- L34 MAXIMUM EFFECTIVE LEG ROOM – ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP – front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L40 BACK ANGLE – FRONT. The angle measured between a vertical line through the SgRP – front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L42 HIP ANGLE – FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE – FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE – FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
- L53 SgRP – FRONT TO HEEL. The dimension measured horizontally from the SgRP – front to the accelerator heel point.
- W3 SHOULDER ROOM – FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP – front at height between the belt line and 254 mm (10.0 in.) above the SgRP – front, excluding the door assist strap and attaching parts.

- W5 HIP ROOM – FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP – front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP – front and 76 mm (3.0 in.) fore and aft of the SgRP – front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H7 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP – front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP – FRONT TO HEEL. The dimension measured vertically from the SgRP – front to the accelerator heel point.
- H50 UPPER BODY OPENING TO GROUND – FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP – front "X" plane.
- H61 EFFECTIVE HEAD ROOM – FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP – front to the headlining plus 102 mm (4.0 in.).
- H67 FLOOR COVERING THICKNESS – UNDEPRESSED – FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

#### Rear Compartment Dimensions

- L41 BACK ANGLE – SECOND. The angle measured between a vertical line through the SgRP – second and the torso line.
- L43 HIP ANGLE – SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE – SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE – SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE – SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLED DISTANCE – SECOND. The dimension measured horizontally from the driver SgRP – front to the SgRP – second.
- L51 MINIMUM EFFECTIVE LEG ROOM – SECOND. The dimension measured along a line from the ankle pivot center to the SgRP – second plus 254 mm (10.0 in.).
- W4 SHOULDER ROOM – SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP – second at height between 254-406 mm (10.0-16.0 in.) above the SgRP – second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM – SECOND. Measured in the same manner as W5.
- H31 SgRP – SECOND TO HEEL. The dimension measured vertically from the SgRP – second to the two dimensional device heel point on the depressed floor covering.
- H51 UPPER BODY OPENING TO GROUND – SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP – second.
- H63 EFFECTIVE HEAD ROOM – SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H73 FLOOR COVERING – DEPRESSED – SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

# MVMA Specifications

## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

#### Luggage Compartment Dimensions

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

#### Interior Volumes (EPA Classification)

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

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

#### Station Wagon / MPV — Third Seat Dimensions

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

#### Station Wagon / MPV — Cargo Space Dimensions

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

- L202 CARGO LENGTH — CLOSED — FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH — CLOSED — SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT — FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT — SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH — WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.
- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- W500 CARGO WIDTH AT FLOOR. The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- H505 MAXIMUM CARGO HEIGHT. The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.

# MVMA Specifications

## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

#### V2 STATION WAGON

Measured in inches:

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

Measured in mm:

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

#### V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT.

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

#### V5 TRUCKS AND MPV'S WITH OPEN AREA.

Measured in inches:

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

Measured in mm:

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

#### V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

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

Measured in mm:

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

#### V8 HIDDEN LUGGAGE CAPACITY – REAR OF SECOND SEAT.

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

#### V10 STATION WAGON CARGO VOLUME INDEX.

Measured in inches:

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

Measured in mm:

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

#### Hatchback – Cargo Space Dimensions

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

**L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT.** The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.

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

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

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

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

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

#### V3 HATCHBACK.

Measured in inches:

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

Measured in mm:

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

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

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

Measured in inches:

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

Measured in mm:

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

# MVMA Specifications

METRIC (U.S. Customary)

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