MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1986

Manufacturer	Car Line	
Toyota Motor Corporation	COROLLA COUPE	
Mailing Address Toyota Motor Sales U.S.A., Inc. Torrance, California	Issued 1986	Revised

Questions concerning these specifications should be directed to the manufacturer whose address is shown above.

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

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

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mvma

Motor Vehicle Manufacturers Association
of the United States, Inc.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Table of Contents

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 completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)
2-Door Coupe, DLX 5-Spd./Manual		AE86L-ESMDCA	2/2	45 kg
2-Door Coupe, DLX 4-Spd./Automatic		AE86L-ESPDCA	2/2	45
2-Door Coupe, SR 5-Spd./Manual		AE86L-ESMXCA	2/2	45
2-Door Coupe, SR 4-Spd./Automatic		AE86L-ESPXCA	2/2	45
3-Door Coupe, SR 5-Spd./Manual		AE86L-ECMXCA	2/2	45
3-Door Coupe, SR 4-Spd./Automatic		AE86L-ECPXCA	2/2	45
2-Door Coupe, GT-S 5-Spd./Manual		AE86L-ESMQFA	2/2	45
3-Door Coupe, GT-S 5-Spd./Manual		AE86L-ECMQFA	2/2	45

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Power Teams (Indicate whether standard or optional)

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

SERIES AVAILABILITY	ENGINE						TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in^3)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM		Exhaust S/D		
				kW (bhp)	Torque N•m (lb. ft.)			
	L	Barrels		kW/ rpm	N•m/ rpm			
AE86L-ESMDCA	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.909
AE86L-ESPDCA	1.587	2	9.0	55/ 5200	116/ 2800	S	4-Speed Automatic	4.100
AE86L-ESMXCA	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.909
AE86L-ESPXCA	1.587	2	9.0	55/ 5200	116/ 2800	S	4-Speed Automatic	4.100
AE86L-ECMXCA	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.909
AE86L-ECPXCA	1.587	2	9.0	55/ 5200	116/ 2800	S	4-Speed Automatic	4.100
AE86L-ESMQFA	1.587	FI	9.4	84/ 6600	132/ 4800	D	5-Speed Manual	4.300
AE86L-ECMQFA	1.587	FI	9.4	84/ 6600	132/ 4800	D	5-Speed Manual	4.300

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE
Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb. Engine Code	4A-C	4A-GEC

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sonc, donc, ohv, hemi, wedge, pre-camber, etc.)		In-line, Front, Transverse, SOHC, Wedge	In-line, Front, Longitudinal, DOHC, Pentroof
Manufacturer			
No. of cylinders		4	
Bore		81.0 mm	
Stroke		77.0 mm	
Bore spacing (C/L to C/L)		88.0 mm	87.5 mm
Cylinder block material & mass kg (lbs.)		Gray cast iron	
Cylinder block deck height		191.0 mm	
Deck clearance (minimum) (above or below block)		0.0 mm	
Cylinder head material & mass kg (lbs.)		Aluminum alloy	
Cylinder head volume (cm^3)		32.5	36.0
Head gasket thickness (compressed)		1.2 mm	
Minimum combustion chamber total volume (cm^3)		49.9	47.2
Cyl. no. system (front to rear)*		1-2-3-4	
Firing order		1-3-4-2	
Intake manifold material & mass [kg (weight, lbs.)]			
Exhaust manifold material & mass [kg (weight, lbs.)]			
Recommended fuel (leaded, unleaded, diesel)		Unleaded	
Fuel antiknock index	(R + M) / 2	87	
Total dressed engine mass (wt) dry**		M/T: 111 kg A/T: 102 kg	120 kg

Engine – Pistons

Material & mass, g (weight, oz.) - piston only		Aluminum alloy, 268 g	Aluminum alloy, 305 g

Engine – Camshaft

Location		Over cylinder head	
Material & mass kg (weight, lbs.)		Gray cast iron, 2.38 kg	Alloy cast iron, No.1(In.):1.66 kg No.2(Ex.):1.55 kg
Drive type	Chain / belt	Belt	
	Width / pitch	19.05/9.525	19.1/9.525

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

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb. Engine Code	4A-C	4A-GEC

Engine – Valve System

Hydraulic lifters (std., opt., NA)		N.A.	
Valves	Number intake / exhaust		
	Head O.D. intake / exhaust		

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]		Carbon steel, 0.275 kg	Carbon steel, 0.455 kg

Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]		Spheroidal cast iron, 9.44 kg	Carbon steel, 1.2 kg
End thrust taken by bearing (no.)		#3	
Number of main bearings			
Seal (material, one, two piece design, etc.)	Front		
	Rear		

Engine – Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	235 kPa/2000 rpm	392/6000 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.)	w/filter 3.3L, w/o filter 3.0L	w/filter 4.1L, w/o filter 3.7L

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	
Super charger - manufacturer	
Charge cooler	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb. Engine Code	4A-C	4A-GEC

Engine – Cooling System

Coolant recovery system (std., opt., n.a.)		Std.	
Coolant fill location (rad., bottle)		Radiator, Reserve tank	Radiator, Reserve tank
Radiator cap relief valve pressure (kPa (psi))		88.3 kPa	
Circulation thermostat	Type (choke, bypass)	Bypass	
	Starts to open at °C (°F)	82°C	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm		
	Number of pumps	1	
	Drive (V-belt, other)	V-ribbed belt	
	Bearing type	Sealed type, roller & ball bearing	Sealed type, rubbers and ball bearing
	Impeller material		
	Housing material		
By-pass recirculation (type (inter., ext.))		External	
Cooling system capacity	With heater–L(qt.)	M/T:5.5L A/T:5.4L	5.6L
	With air cond.–L(qt.)	N.A.	-
	Opt. equipment (specify–L(qt.))	W/PS, M/T:5.6L A/T:5.5L	-
Water jackets full length of cyl. (yes, no)		Yes	Yes
Water all around cylinder (yes, no)		No	No
Water jackets open at head face (yes, no)			
Radiator core	Std., A/C, HD	Std.	
	Type (cross-flow, etc.)	Vertical flow	
	Construction (fin & tube mechanical, braze, etc.)	Corrugate fin	Corrugate fin, tube
	Material, mass (kg (wgt. lbs.))	Brass, cupper	Cupper, brass
	Width	568.2 mm	568 mm
	Height	325 mm	
	Thickness	16 mm	
	Fins per inch	M/T:16.9 A/T:20.3	16.9 mm
Radiator end tank material			
Fan	Std., elec., opt.		
	Number of blades & type (flex, solid, material)	6, solid	
	Diameter & projected width	360 x 65 mm	360 x 59 mm
	Ratio (fan to crankshaft rev.)	1.3	1.18
	Fan cutout type	Fluid coupling	
	Drive type (direct, remote)	V-ribbed belt	
	RPM at idle (elec.)		
	Motor rating (wattage) (elec.)		
	Motor switch (type & location) (elec.)		
	Switch point (temp., pressure) (elec.)		
	Fan shroud (material)	Polypropylen	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb. Engine Code	4A-C	4A-GEC

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

Induction type: carburetor, fuel injection system, etc.			Carburetor	Fuel injection
Carburetor	Mfgr.		Aisan Industry Co., Ltd.	-
	Choke (type)		Electric heating type	-
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	700	-
			750 (W/PS)	-
		Automatic	800	-
			850 (W/PS)	-
Idle A/F mix.			Preset at manufacturer	
Fuel injection	Point of injection (no.)		-	4
	Constant, pulse, flow		-	Pulse
	Control (electronic, mech.)		-	Electronic
	System pressure [kPa (psi)]		-	25.0 kPa
Intake manifold heat control (exhaust or water thermostatic or fixed)			Exhaust type	-
Air cleaner type	Standard		Dry type, 1 element, *1with hot air intake	
	Optional		N.A.	
Fuel pump	Type (elec. or mech.)		Diaphragm	Electromagnetic
	Location (eng., tank)		Cylinder head, rear	Fuel tank
	Pressure range [kPa (psi)]		24.5 kPa	25.0 kPa

*1: 4A-C model only

Fuel Tank

Capacity [refill L (gallons)]		50 ℓ
Location (describe)		Under rear floor
Attachment		Band
Material & Mass [kg (weight lbs)]		Steel plate
Filler pipe	Location & material	Right rear quarter, steel pipe
	Connection to tank	Steel pipe
Fuel line (material)		Steel pipe
Fuel hose (material)		Rubber
Return line (material)		Steel pipe
Vapor line (material)		Steel pipe
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	-

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE
Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb. Engine Code	4A-C	4A-GEC

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		EGR+AS+O_2S+TWC+OC(fed.) EGR+AS+O_2S+TWC(Cal.)	EFI+EGR+O_2S+TWC
	Air Injection	Pump or pulse	Reed valve	-
		Driven by	N.A.	-
		Air distribution (head, manifold, etc.)	Catalytic convertor (fed.) Exhaust manifold (Cal.)	-
		Point of entry	Between TWC & OC(fed.), #3 Branch (Cal.)	-
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow	
		Exhaust source	Exhaust manifold	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake manifold	
	Catalytic Converter	Type	3-way+Oxidation(Fed.), 3-way(Cal.)	3-way
		Number of	1	
		Location(s)	Forward under floor area	
		Volume (L (in^3))	1.3+0.7L(Fed.), 1.3L(Cal.)	1.3L
		Substrate type	Monolith	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Closed	
	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum Crank case pressure	Manifold vacuum
	Discharges (to intake manifold, other)		Intake manifold	
	Air inlet (breather cap, other)		Air cleaner	Throttle body
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	Canister
		Carburetor	Canister	-
	Vapor storage provision		Canister	
Electronic system	Closed loop (yes/no)		Yes	
	Open loop (yes/no)		No	

Engine – Exhaust System

Type (single, single with cross-over, dual, other)			Single		Semi dual	
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass (kg (weight lbs))			1, Reverse floor		1, Straight floor 1, Reverse floor	
Resonator no. & type			N.A.			
Exhaust pipe	Branch o.d., wall thickness		-		42.7 mm, 2.0 mm	
	Main o.d., wall thickness		42.7 mm, 1.5 mm		50.8 mm, 1.5 mm	
	Material & Mass (kg (weight lbs))		Stainless steel		Stainless steel	
Inter-mediate pipe	o.d. & wall thickness	mm	42.7, 20	42.7, 1.6	48.6, 1.5	48.6, 1.6 / 42.7, 1.6
	Material & Mass (kg (weight lbs))		Stainless steel	Al coated steel	Stainless steel	Al coated steel
Tail pipe	o.d. & wall thickness		42.7 mm, 1.2 mm			
	Material & Mass (kg (weight lbs))		Al coated steel			

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb. Engine Code	4A-C	4A-GEC

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	N.A.
Manual 4-speed (std., opt., n.a.) (mfr.)	N.A.
Manual 5-speed (std., opt., n.a.) (mfr.)	STD.
Manual overdrive (std., opt., n.a.) (mfr.)	N.A.
Automatic (std., opt., n.a.) (mfr.)	N.A.
Automatic overdrive (std., opt., n.a.) (mfr.)	OPT.

Manual Transmission/Transaxle

Number of forward speeds			5
Transmission ratios	In first		3.586
	In second		2.021
	In third		1.383
	In fourth		1.000
	In fifth		0.860
	In overdrive		–
	In reverse		3.484
Synchronous meshing (specify gears)			5
Shift lever location			Floor
Lubricant	Capacity (L (pt.))		1.7L
	Type recommended		API GL-4 or GL-5
	SAE viscosity number	Summer	75W-90
		Winter	75W-90
		Extreme cold	75W-90

Clutch (Manual Transmission)

Make, type, engagement (describe) – (hydraulic, cable, rod)		AISIN SEIKI, dry, single plate	
Assist (yes, no; percent)			
Type pressure plate springs		Diaphragm	
Total spring load (N (lb.))		3400N	4200N
No. of clutch driven discs		1	
Clutch facing	Material	Semi-mold	
	Manufacturer	AISIN KAKO	
	Part number	31256-12050	31256-17010
	Rivets/plate	16	
	Rivet size	4 mm	
	Outside & inside dia.	ϕ200 x ϕ140 mm	
	Total eff. area (cm^2 ($in.^2$))	160 cm^2	
	Thickness	3.5 mm	
	Engagement cushion method	Cushion spring	
Release bearing	Type & method of lubrication	Single row ball bearing, sealed-grease	
Torsional damping	Method: springs, friction material	Torsion rubber	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb. Engine Code	4A-C	4A-GEC

Automatic Transmission/Transaxle

Trade name		A42DL
Type and special features (describe)		Oil pressure control, planetary gear with Lock-up clutch
Selector	Location	Floor
	Ltr. No. designation	PRND2L
Gear ratios	First	2.450
	Second	1.450
	Third	1.000
	Fourth	0.688
	Reverse	2.222
Max. upshift speed - drive range [km/h (mph)]		1→2: 62 km/h 2→3: 102 km/h 3→4: *1 117 km/h
Max. kickdown speed - drive range [km/h (mph)]		2→1: 48.5 km/h 3→2: 100 km/h 4→3: *1 96 km/h
Min. overdrive speed [km/h (mph)]		3→4: 37 km/h 4→3: 19 km/h
Torque converter	Number of elements	3 elements, 1 step, 2 phases
	Max. ratio at stall	2.100:1
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	230 mm
Lubricant	Capacity [refill L (pt.)]	5.7L
	Type Recommended	Dexron II
Oil cooler (std., opt., NA, internal, external, air, liquid)		

Axle or Front Wheel Drive Unit

Type (front, rear)			Rear	
Description			Hypoid gear	
Limited slip differential (type)			-	Opt.: Pre-load +
Drive pinion offset			31.75 mm	
Drive pinion (type)			Hypoid gear	
No. of differential pinions			4	
Pinion / differential adjustment (shim, other)			Shim	
Pinion / differential bearing adjustment (shim, other)			Collapsible sleeve	
Driving wheel bearing (type)			Radial ball bearing	
Lubricant	Capacity [L (pt.)]		1.0L	1.3L
	Type recommended		Hypoid gear oil API GL-5	
	SAE viscosity number	Summer	SAE 90	
		Winter	SAE 90	
		Extreme cold	SAE 80W-90 (below 0°F)	

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

Axle ratio (or overall top gear ratio)		M/T:3.909	A/T:4.100	4.300
No. of teeth	Pinion	M/T:11	A/T:10	10
	Ring gear or gear	M/T:43	A/T:41	43
Ring gear o.d.		162 mm		170.5 mm
Transaxle	Transfer gear ratio			
	Final drive ratio			

*1: Reference value at 85% of upshift.
In full upshift, the value remains at that of 3rd gear.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE
Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb. Engine Code	4A-C	4A-GEC

Propeller Shaft – Rear Wheel Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)			1st: Straight tube 2nd: Straight tube, Inner damper (3-door coupe)	
Outer diam. x length* x wall thickness	Manual 3-speed trans.			
	Manual 4-speed trans.			
	Manual 5-speed trans.		1st: 65x501.5x1.6 mm 2nd: 65x 672 x1.6 mm	1st: 65x501.5x1.6 mm 2nd: 65x 654 x1.6 mm
	Overdrive			
	Automatic transmission		1st: 65x423.5x1.6 mm 2nd: 65x 672 x1.6 mm	-
Intermediate bearing	Type (plain, anti-friction)		Ball bearing	
	Lubrication (fitting, prepack)		Sealed grease	
Slip yoke	Type		Spline	
	Number of teeth		22 (Manual), 21 (Automatic)	
	Spline o.d.		25.00 mm (Manual), 27.94 mm (Automatic)	
Universal joints	Make and mfg. no.	Front	TOYOTA	
		Rear	TOYOTA	
	Number used		3	
	Type (ball and trunnion, cross)		Hooked joint	
	Rear attach (u-bolt, clamp, etc.)		Flange	
	Bearing	Type (plain, anti-friction)	Needle, ball bearing	
		Lubrication (fitting, prepack)	Sealed grease	
Drive taken through (torque tube, arms or springs)			Controll arm	
Torque taken through (torque tube, arms or springs)			Spring	

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Body Type And/Or Engine Displacement	DX	SR5	GT-S

Suspension – General

Car leveling	Std., opt., n.a.	N.A.
	Type (air, hyd., etc.)	–
	Manual/auto. controlled	–
Provision for brake dip control		–
Provision for accl. squat control		–
Provisions for car jacking		–
Shock absorber (front & rear)	Type	Twin tube
	Make	Fr.: Toyota Motor Corporation Rr.: Kayaba or Tokiko
	Piston diameter	Fr.: ϕ32 mm, Rr.: ϕ25 mm
	Rod diameter	Fr.: ϕ22 mm, Rr.: ϕ12.5 mm

Suspension – Front

Type and description			MacPharson strut		
Drive and torque taken through					
Travel	Full jounce		85 mm		
	Full rebound		100 mm		
Spring	Type (coil, leaf, other) & material		Coil, SUP 7 or SUP 7NV or SUP 12V (SRS 60)		
	Insulators (type & material)				
	Size (coil design height & i.d., bar length x dia.) mm	RH	M/S: 409x114.2(113.9) P/S: 416x114(113.5)	M/S: 390.5(390)x113.6(112.7) P/S: 396.5x113.5(112.5)	M/S: 372x113.1 P/S: 377.5x113.1
		LH	M/S: 416x114(113.5) P/S: 423.5x114	M/S: 396.5x113.5(112.5) P/S: 403(402.5)x113.2(111.9)	M/S: 377.5x113.1 P/S: 382.5x113
	Spring rate (N/mm (lb./in.))		1.4 kg/mm	1.6 kg/mm	1.9 kg/mm
	Rate at wheel (N/mm (lb./in.))		1.4 kg/mm	1.6 kg/mm	1.9 kg/mm
Stabilizer	Type (link, linkless, frameless)		Link		
	Material & bar diameter		S45C or S48C, ϕ20/21* *(M/S)/(P/S)	S45C or S48C, ϕ21mm	S45C or S48C, ϕ22mm

Suspension – Rear

Type and description			4 Link		
Drive and torque taken through			Control arm & spring		
Travel	Full jounce		90 mm		
	Full rebound		105 mm		
Spring	Type (coil, leaf, other) & material		Coil, SUP 7 or SUP 7NV or SUP 12V (SRS 60)		
	Size (length x width, coil design height & i.d., bar length & dia.) mm		357 x 109	354 x 108.5	339.5 x 108
	Spring rate (N/mm (lb./in.))		1.7 kg/mm	1.85 kg/mm	2.2 kg/mm
	Rate at wheel (N/mm (lb./in.))		1.7 kg/mm	1.85 kg/mm	2.2 kg/mm
	Insulators (type & material)		Rubber bushing		
	If leaf	No. of leaves	–		
		Shackle (comp. or tens.)	–		
Stabilizer	Type (link, linkless, frameless)		–	Link	
	Material & bar diameter		–	S45C, ϕ14 mm	S45C, ϕ16 mm
Track bar (type)					

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Body Type And/Or Engine Displacement	4A-C	4A-GEC

Brakes - Service

Description			-	
Brake type (std., opt., n.a.)		Front (disc or drum)	Disc Std.	
		Rear (disc or drum)	Drum Std.	Disc Std.
Self-adjusting (std., opt., n.a.)			Std.	
Special valving	Type (proportion, delay, metering, other)		P & B valve	
Power brake (std., opt., n.a.)			Std.	
Booster type (remote, integral, vac., hyd., etc.)			Direct vacuum	
Vacuum source (inline, pump, etc.)			Engine vacuum	
Vacuum reservoir (volume in.^{3})			N.A.	
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			N.A.	
Anti-skid device type (std., opt., n.a.) (F/R)			N.A./N.A.	
Effective area [cm^2(in.^{2})]*		(F/R)	156/352 cm^2	156/100 cm^2
Gross lining area [cm^2(in.^{2})]**(F/R)			156/352 cm^2	156/100 cm^2
Swept area [cm^2(in.^{2})]***(F/R)			1107/575 cm^2	1107/575 cm^2
Rotor	Outer working diameter	F/R	231.5/N.A. mm	231.5/231 mm
	Inner working diameter	F/R	135.5/N.A. mm	135.5/161.5 mm
	Thickness	F/R	180/N.A. mm	180/10.0 mm
	Material & type (vented/solid)	F/R	Cast iron, Vented/N.A.	Cast iron, Vented/Cast iron, Soli
Drum	Diameter & width	F/R	N.A./228.6 mm	N.A./N.A.
	Type and material	F/R	Cast iron	N.A.
Wheel cylinder bore		(F/R)	50.80/20.64 mm	50.80/34.93 mm
Master cylinder	Bore/stroke	F/R	Bore: 20.64/20.64 mm Stroke: 16.5/13.5 mm	
Pedal arc ratio			4.16	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			-	
Lining clearance		F/R	Self adjusting/Self adjusting	
Brake lining — Front wheel	Bonded or riveted (rivets/seg.)		Bonded	
	Rivet size		-	
	Manufacturer		AKEBONO, NISHINBO, SUMITOMO, AISIN	
	Lining code*****		-	
	Material		Resin molded	
	**** Primary or out-board		94 x 48 x 10 mm	
	Size Secondary or in-board		94 x 48 x 10 mm	
	Shoe thickness (no lining)		5.0 mm	
Brake lining — Rear wheel	Bonded or riveted (rivets/seg.)		Bonded	
	Manufacturer		AKEBONO, NISHINBO	AKEBONO, NISHINBO, SUMITOMO
	Lining Code*****		-	
	Material		Resin molded	
	**** Primary or out-board		219 x 40 x 5 mm	86 x 32 x 9.5 mm
	Size Secondary or in-board		219 x 40 x 5 mm	86 x 32 x 9.5 mm
	Shoe thickness (no lining)		2.0 mm	5.0 mm

*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 or formulation designation and coefficient of friction classification.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line: COROLLA COUPE
Model Year: 1986 Issued: _____ Revised (e): _____

Body Type And/Or Engine Displacement	DX	SR5	GT-S

Tires And Wheels (Standard)

Tires	Size (load range, ply)		165 SR13	185/70 SR13	195/60R14 85H
	Type (bias, radial, etc.)		Radial		
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	190		
		Rear [kPa (psi)]	190		
	Rev./mile—at 70 km/h (45 mph)		557	555	563
Wheels	Type & material		Steel		
	Rim (size & flange type)		4 1/2 - J x 13	5 - J x 13	5 1/2 - J x 14
	Wheel offset		35 mm	27 mm	
	Attachment	Type (bolt or stud)	Stud		
		Circle diameter	114.3 mm		
		Number & size	4, M12 x 1.5		
Spare	Tire and wheel (same, if other describe)		T115/70D14, 4 - T x 14		
	Storage position & location (describe)		Luggage		

Tires And Wheels (Optional)

Size (load range, ply)	185/70 SR13	195/60R14 85H
Type (bias, radial, etc.)	Radial	Radial
Wheel (type & material)	Aluminum	Aluminum
Rim (size, flange type and offset)	5 - J x 13 (O/S: 27)	5 1/2 - JJ x 14 (O/S: 27)
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		

Brakes – Parking

Type of control		–
Location of control		–
Operates on		–
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 Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Body Type And/Or Engine Displacement	All models

Steering

Manual (std., opt., n.a.)				Std.
Power (std., opt., n.a.)				Opt.
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt
		(Std., opt., n.a.)		Opt., Std., (GT-S)
Wheel diameter (W9) SAE J1100		Manual		380 mm, 385 mm (GT-S)
		Power		380 mm, 385 mm (GT-S)
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		10.3 m
		Curb to curb (l. & r.)		9.5 m
	Inside rear	Wall to wall (l. & r.)		5.1 m
		Curb to curb (l. & r.)		5.3 m
Scrub Radius*				
Manual	Gear	Type		Rack & Pinion
		Make		Toyota Motor Corporation
		Ratios	Gear	∞
			Overall	19.4
	No. wheel turns (stop to stop)			3.5
Power	Type (coaxial, linkage, etc.)			Hydraulic integral
	Make			Toyoda koki
	Gear	Type		Rack & Pinion
		Ratios	Gear	∞
			Overall	17.9
	Pump (drive)			V belt
	No. wheel turns (stop to stop)			3.2
Linkage	Type			Rack & Pinion
	Location (front or rear of wheels, other)			Rear
	Tie rods (one or two)			2
Steering axis	Inclination at camber (deg.)			8°50'
	Bearings (type)	Upper		Ball bearing
		Lower		Ball joint
		Thrust		-
Steering spindle & joint type				Knuckle, ball
Wheel spindle	Diameter	Inner bearing		29.0 mm
		Outer bearing		17.5 mm
	Thread (size)			M16 x 1.5 mm
	Bearing (type)			Taper roller bearing

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Body Type And/Or Engine Displacement	All models

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	2°45' ± 45', 3°40' ± 45' (w/ PS, GT-S)
		Camber (deg.)	15' ± 45'
		Toe-in (outside track-mm (in.))	1 ± 4 mm
	Service reset*	Caster	2°45' ± 30', 3°40' ± 30' (w/ PS, GT-S)
		Camber	15' ± 30'
		Toe-in	1 ± 1 mm
	Periodic M.V. inspection	Caster	2°45' ± 45', 3°40' ± 45' (w/ PS, GT-S)
		Camber	15' ± 45'
		Toe-in	1 ± 4 mm
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	–
		Toe-in (outside track-mm (in.))	–
	Service reset*	Camber	–
		Toe-in	–
	Periodic M.V. inspection	Camber	–
		Toe-in	–

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

Electrical – Instruments and Equipment

Speedometer	Type	
	Trip odometer (std., opt., n.a.)	
EGR maintenance indicator		
Charge indicator	Type	
	Warning device	
Temperature indicator	Type	
	Warning device	
Oil pressure indicator	Type	
	Warning device	
Fuel indicator	Type	
	Warning device	
Windshield wiper	Type (standard)	Motor, 3-speed
	Type (optional)	–
	Blade length	475 mm (Dr), 425 mm (Pa)
	Swept area (cm^2 ($in.^2$))	5595 cm^2
Windshield washer	Type (standard)	Motor
	Type (optional)	–
	Fluid level indicator	–
Horn	Type	
	Number used	
Other		

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb. / Engine Code	4A-C	4A-GEC

Electrical – Supply System

Battery	Make	*1 G,Y,K,N,F (Std.)	G,Y,K,N,F (Opt.)	G,Y,K
	Model, std., (opt.)	50D20L-MF	55D23L-MF	N40L (32C24L)
	Voltage	12V 54 plates	12V 66 plates	12V 54 plates
	Amps at 0°F cold crank	270	310	200
	Minutes-reserve capacity	75	90	50
	Amp/hrs. - 20 hr. rate	50	60	40
	Location	Inside engine compartment, left front		
Generator or alternator	Type and rating	Alternating current 55A	Alternating current 60A	
	Ratio (alt. crank/rev.)	2.17:1	2.36:1	
	Optional (type & rating)	-		
Regulator	Type	IC		

Electrical – Starting System

Start. motor	Current drain at 0°F	-
Motor drive	Engagement type	Shift
	Pinion engages from (front, rear)	Front

Electrical – Ignition System

Type	Electronic (std., opt., n.a.)		Std.	
	Other (specify)		N.A.	
Coil	Make		Nippondenso Co., Ltd.	
	Model		4A-C (I.I.A.)	-
	Current	Engine stopped – A	0	0
		Engine idling – A	0.9	0.85
Spark plug	Make		Nippondenso Co., Ltd. NGK Spark Plug Co., Ltd.	
	Model		*2 Fed./Cal.	PQ16R(ND), BCPR5EP11 (NGK)
	Thread (mm)		M14 x 19.0 mm	
	Tightening torque (N-m (lb. ft))		17.7±2.9 N·m	17.7 N·m
	Gap		1.1 mm	
	Number per cylinder			
Distributor	Make		Nippondenso Co., Ltd.	
	Model		4A-C (I.I.A.)	-

Electrical – Suppression

Locations & type	Resistive cord Resistive spark plug	Spray coating rotor Resistive cord Resistive plug

*1 G:Nippondenchi Y:Yuasadenchi K:Shinkobedenki N:Mastushitadenchi F:Furukawadenchi

*2 W16EXR-U11, W14EXR-U11, BPR5EY11, BPR4EY11/W16EXR-U11, BPR5EY11

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE
Model Year 1986 Issued _____ Revised (•) _____

Body Type	All models

Body

Structure	
Bumper system front - rear	Bar Material & Mass / Reinforcement Material & Mass Front: Urethane 3.0 kg / Front: Steel 10.5 kg, 10.7 kg Rear : Urethane 3.6 kg / Rear : Steel 11.0 kg (GT-S)
Anti-corrosion treatment	

Body – Miscellaneous Information

Type of finish (lacquer, enamel, other)		Enamel, acryl
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	Counter Balance
	Internal release control (elec., mech., n.a.)	Mechanical
Hatch-back lid	Type (counterbalance, other)	
	Internal release control (elec., mech., n.a.)	
Vent window control (crank, friction, pivot, power)	Front	–
	Rear	–
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Spring + form pad
	Rear	Wire frame + form pad
	3rd seat	–
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Spring + form pad
	Rear	Panel frame + form pad, spring + mat (DLX)
	3rd seat	–

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line COROLLA COUPE
Model Year 1986 Issued _____ Revised (•) _____

Body Type	2 Dr. Coupe	3 Dr. Coupe

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	FR; 3 point, ELR RR: 2 point, ALR
	Location	FR: 3 point RR: 2 point
Passive seat belts	Standard/optional	N.A.
	Power/manual	N.A.
	2 or 3 point	N.A.
	Knee bar/lap belt	N.A.

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Mono-cock body

Glass	SAE Ref. No.		
Windshield glass exposed surface area [cm^2(in.^{2})]	S1	8370 cm^2	
Side glass exposed surface area [cm^2(in.^{2})] - total 2-sides	S2	11230 cm^2	11700 cm^2
Backlight glass exposed surface area [cm^2(in.^{2})]	S3	6190 cm^2	7785 cm^2
Total glass exposed surface area [cm^2(in.^{2})]	S4	25790 cm^2	27855 cm^2
Windshield glass (type)		Tinted, Laminated (Top-shades: SR, GT-S)	
Side glass (type)		Tinted, Tempered	
Backlight glass (type)		Tinted, Tempered	

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line COROLLA COUPE
Model Year 1986 Issued _____ Revised (•) _____

Body Type	All models

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

Air conditioning (manual, auto. temp control)		Opt. (Manual type)
Clock (digital, analog)		Opt. (Digital)
Compass / thermometer		N.A.
Console (floor, overhead)		Std.
Defroster, elec. backlight		Std. (Electrical pack window deffoger)
Electronic	Diagnostic warning (integrated, individual)	Opt. (GT-S)
	Instrument cluster (list instruments)	–
	Keyless entry	N.A.
	Trip minder (avg. spd., fuel)	N.A.
	Voice alert (list items)	N.A.
	Other	–
Fuel door lock (remote, key, electric)		N.A. (DLX), Std. (Others)
Lamps	Auto head on / off delay, dimming	N.A.
	Cornering	N.A.
	Courtesy (map, reading)	Std.
	Door lock, ignition	Std.
	Engine compartment	N.A.
	Fog	N.A.
	Glove compartment	N.A.
	Trunk	N.A.
	Other	–
Mirrors	Day/night (auto, man.)	Std. (Manual)
	L.H. (remote, power, heated)	Std, Opt.: Manual remote, Electric Remote
	R. H. (convex, remote, power, heated)	Std, Opt.: Manual remote, Electric Remote
	Visor vanity (RH / LH, illuminated)	N.A. (DLX), Std. (Others)
Parking brake-auto release (warning light)		N.A.
Power equipment	Door locks / deck lid - specify	N.A.
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	–
	Side windows	N.A. Opt. (GT-S)
	Vent windows	N.A.
	Rear window	N.A.
Radio systems	Antenna (location, whip, w/shield, power)	RH front fender, whip
	AM, FM, stero, tape: CB	Opt.: AM, AM/FM MPX, AM/FM MPX w/cassetteplayer
	Speaker (number, location) Premium sound	2-speaker, 4-speaker
Roof open air/fixed (flip-up, sliding, "T")		Sliding gun roof
Speed control device		Opt.
Speed warning device (light, buzzer,etc.)		–
Tachometer (rpm)		Std.
Theft protection-type		Steering lock

MVMA Specifications Form
Passenger Car

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

METRIC (U.S. Customary)
Car and Body 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 car line.
SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	4A-C	4A-GEC
Width			
Tread (front)	W101	1340 mm (DLX), 1355 mm	
Trear (rear)	W102	1330 mm (DLX), 1345 mm	
Vehicle width	W103	1625 mm, 1645 mm (GT-S)	
Body width at Sg RP (front)	W117	1606 mm	
Vehicle width (front doors open)	W120	3853 mm	
Vehicle width (rear doors open)	W121	–	
Front fender overall width	W106		
Rear fender overall width	W107		
Tumble-home (deg.)	W122	22.5°	
Length			
Wheelbase	L101	2400 mm	
Vehicle length	L103	4285 mm	
Overhang (front)	L104	860 mm	
Overhang (rear)	L105	1025 mm	
Upper structure length	L123	2391 mm (2-door), 2588 mm (3-door)	
Rear wheel C/L "X" coordinate	L127	2400 mm	
Cowl point "X" coordinate	L125	431.5 mm	
Front end length at centerline	L126		
Rear end length at centerline	L129		
Height*			
Passenger distribution (front/rear)	P01,2,3	67.0/137.0 (2-door), 67.5/136.5 (3-door)	
Trunk/cargo load		45.4 kg	
Vehicle height	H101	1335 mm	
Cowl point to ground	H114	895 mm	
Deck point to ground	H138	950 mm(2-door), 960 mm(3-door)	950 mm(2-door), 955 mm(3-door)
Rocker panel-front to ground	H112	180 mm	175 mm
Bottom of door closed-front to grd.	H133	275 mm	270 mm
Rocker panel-rear to ground	H111	190 mm	185 mm
Bottom of door closed-rear to grd.	H135	–	
Windshield slope angle	H122	59.5°	
Backlight slope angle	H121	58.5°(2-door), 69°(3-door)	
Ground Clearance*			
Front bumper to ground	H102	350 mm(DLX), 355 mm	350 mm
Rear bumper to ground	H104	350 mm	345 mm
Bumper to ground (front at curb mass (wt.))	H103	365 mm(DLX), 370 mm	360 mm
Bumper to ground (rear at curb mass (wt.))	H105	390 mm(DLX), 395 mm	385 mm
Angle of approach (degrees)	H106	23 (DLX), 23.5	16
Angle of departure (degrees)	H107	15.5	
Ramp breakover angle (degrees)	H147	13	
Axle differential to ground (front / rear)	H153	155 mm	145 mm
Min. running ground clearance	H156	135 mm	136 mm
Location of min. run. grd. clear.		Fr. Ex. pipe	

* All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified.
Manufacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)
Car and Body Dimensions See Key Sheets for definitions

Car Line COROLLA COUPE
Model Year 1986 Issued _____ Revised (•) _____

Body Type	SAE Ref. No.	2 Dr. Coupe	3 Dr. Coupe

Front Compartment

Sg RP front, "X" coordinate	L31	1400 mm	
Effective head room	H61	956 mm, 918 mm (Opt. sun roof)	
Max. eff. leg room (accelerator)	L34	1106 mm	
SgRP to heel point	H30	198 mm	
SgRP to heel point	L53		
Back angle	L40	21°	
Hip angle	L42		
Knee angle	L44		
Foot angle	L46		
Design H-point front travel	L17	193 mm	
Normal driving & riding seat track trvl.	L23		
Shoulder room	W3	1341 mm(DLX), 1338 mm(SR)	1323 mm
Hip room	W5	1332 mm(DLX), 1312 mm(SR)	1332 mm
Upper body opening to ground mm	H50	1210(DLX), 1212(SR), 1206.5(GT-S)	1212(SR), 1206.5(GT-S)
Steering wheel maximum diameter mm	W9	1119(DLX), 1121(SR), 1115.5(GT-S)	1207(SR), 1201.5(GT-S)
Steering wheel angle	H18	23°	
Accel. heel pt. to steer. whl. cntr	L11		
Accel. heel pt. to steer. whl. cntr	H17		
Steering wheel to C/L of thigh	H13		
Steering wheel torso clearance	L7		
Headlining to roof panel (front)	H37		
Undepressed floor covering thickness	H67		

Rear Compartment

Sg RP Point couple distance	L50	630 mm	615 mm
Effective head room	H63	916 mm	905 mm
Min. effective leg room	L51	684 mm	664 mm
Sg RP (second to heel)	H31	206 mm	184 mm
Knee clearance	L48	-84 mm, -104 mm(GT-S)	-80 mm
Compartment room	L3	515mm(DLX), 518mm(SR), 511mm(GT-S)	521 mm(SR), 517 mm(GT-S)
Shoulder room	W4	1306 mm, 1273 mm(GT-S)	1306 mm, 1274 mm(GT-S)
Hip room	W6	1070 mm, 1061 mm(GT-S)	1086 mm, 1076 mm(GT-S)
Upper body opening to ground	H51		
Back angle	L41		
Hip angle	L43		
Knee angle	L45		
Foot angle	L47		
Headlining to roof panel (second)	H38		
Depressed floor covering thickness	H73		

Luggage Compartment

Usable luggage capacity (L (cu. ft.)]	V1	255L	257L
Liftover height	H195	770 mm, 765 mm(GT-S)	810 mm, 805 mm(GT-S)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		
Interior volume index (cu. ft.)		
Trunk/cargo index (cu. ft.)		

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)
Car and Body Dimensions See Key Sheets for definitions

Car Line COROLLA COUPE
Model Year 1986 Issued _____ Revised (•) _____

Body Type	SAE Ref. No.	2 Dr. Coupe	3 Dr. Coupe

Station Wagon – Third Seat

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

Station Wagon – 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		
Max. 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	–	355, 275(GT-S)
Cargo volume index [m^3($ft.^3$)]	V2		
Hidden cargo volume [m^3($ft.^3$)]	V4		
Cargo volume. index-rear of 2-seat	V10		

Hatchback – Cargo Space

Cargo length at front seatback height	L208	–	1272, 1387(GT-S)
Cargo length at floor (front)	L209	–	1565, 1555(GT-S)
Cargo length at second seatback height	L210		
Cargo length at floor (second)	L211		
Front seatback to load floor height	H197		
Second seatback to load floor height	H198		
Cargo volume index [m^3($ft.^3$)]	V3	–	0.658 m^3, 0.515 m^3(GT-S)
Hidden cargo volume [m^3($ft.^3$)]	V4	–	0.345 m^3, 0.337 m^3(GT-S)
Cargo volume index-rear of 2-seat	V11		

Aerodynamics*

Wheel lip to ground, front	
Wheel lip to ground, rear	
Frontal area [m^2(ft^2)]	
Drag coefficient (Cd)	

* EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line COROLLA COUPE
Model Year 1986 Issued _____ Revised (●) _____

Body Type	All models

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front		Front side member, Suspension cross-member Centering hole for tightening (forward both sides)
Rear		Rear floor side member, Centering base hole for mounting (both sides)
Fiducial Mark Number		
Front	W21	W3+89 mm
	L54	L9-11 mm
	H81	H11-10 mm
	H161	–
	H163	–
Rear	W22	W5+30 mm
	L55	L41+10 mm
	H82	H12+44 mm
	H162	–
	H164	–

* Reference – SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.
All linear dimensions are in millimeters (inches).

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Body Type			2 Dr. Coupe	3 Dr. Coupe
Lamps and Headlamp Shape*				
Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	705 mm (DLX, SR), 695 mm (GT-S)	
		Lowest	–	
	Taillamp (SAE - H128)	Highest**	825 mm (DLX, SR) 810 mm (GT-S)	755 mm (SR) 740 mm (GT-S)
		Lowest	–	
	Sidemarker	Front	635 mm (DLX, SR), 625 mm (GT-S)	
		Rear	770 mm (DLX, SR), 755 mm (GT-S)	
Distance from C.L of car to center of bulb	Headlamp	Inside	–	
		Outside**	500 mm	
	Taillamp	Inside	422 mm	353 mm
		Outside**	540 mm	545 mm
	Directional	Front	525 mm	
		Rear	664 mm	646 mm
Halogen headlamp (std., opt., n.a.)		Lo beam		
		Hi beam		
		Replaceable bulb		
		Shape		
Headlamp other than above		Lo beam		
		Hi beam		
		Replaceable		
		Shape		
		Type		

* Measured at curb mass (weight).
** If single lamps are used enter here.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

Vehicle Mass (weight)

Model	CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION				SHIPPING MASS, kg (weight, lb.)**
				Pass in Front		Pass in Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
AE86L-ESMDCA	531	467	998	57	79	21	115	967
AE86L-ESPDCA	549	469	1018	57	79	21	115	987
AE86L-ESMXCA	535	474	1009	57	79	21	115	978
AE86L-ESPXCA	554	476	1030	57	79	21	115	999
AE86L-ECMXCA	535	488	1021	57	79	22	114	990
AE86L-ECPXCA	551	490	1041	57	79	22	114	1010
AE86L-ESMQFA	558	506	1064	57	79	21	115	1033
AE86L-ECMQFA	558	522	1080	57	79	22	114	1049

* Reference – SAE J1100 Motor vehicle dimensions, curb weight definition.
** Shipping mass (weight) definition –

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line COROLLA COUPE

Model Year 1986 Issued _____ Revised (•) _____

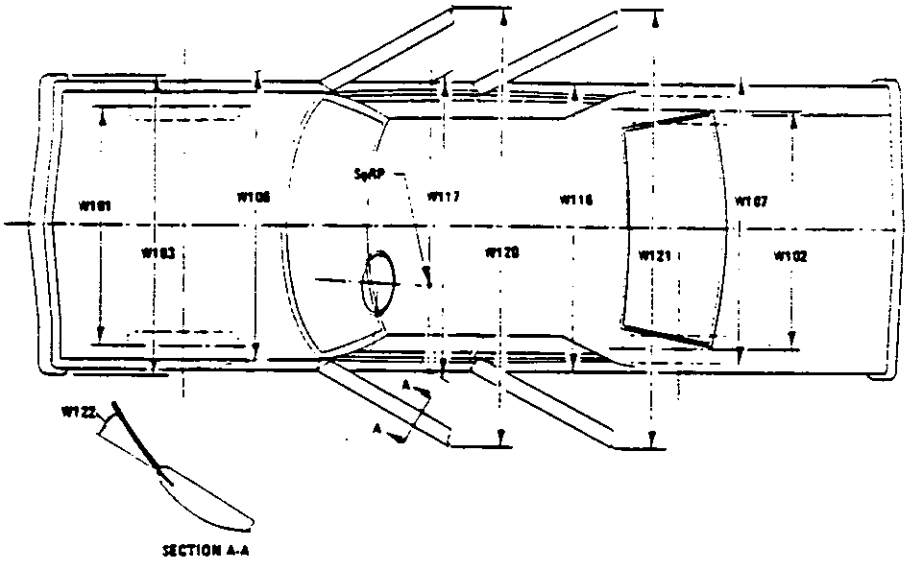
Optional Equipment Differential Mass (weight)*				
Equipment	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
Air conditioner	20	0	20	
Power stearing	11	0	11	
Sun roof	4	10	14	
Multi radio, AM-FM	2	1	3	
Steel wheel	5	5	10	GT-S grade only

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

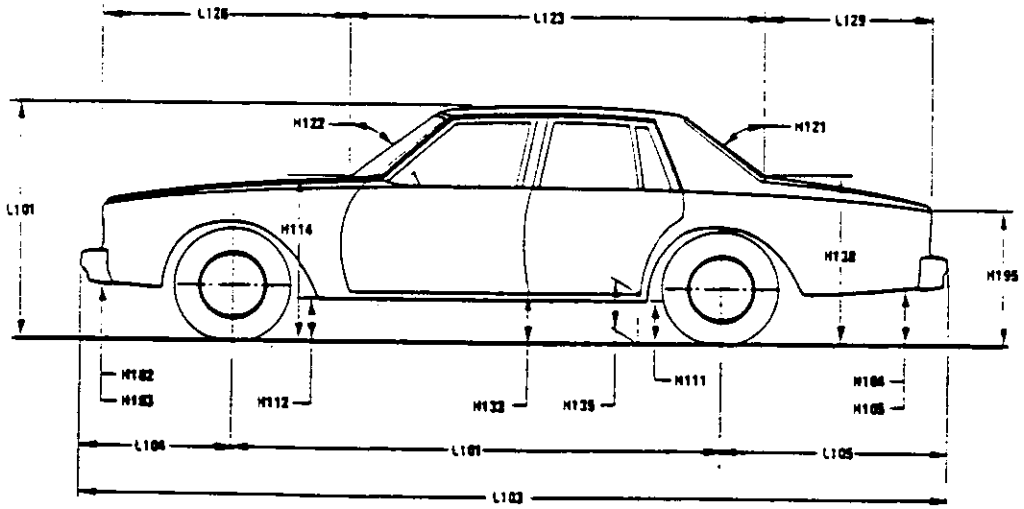
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

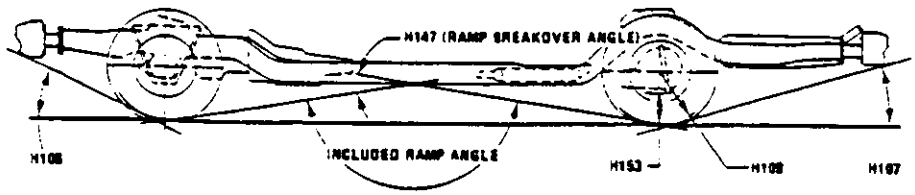
Exterior Width



Exterior Length & Height

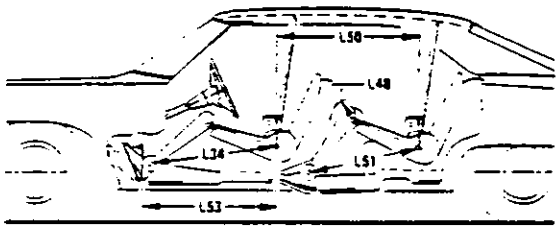


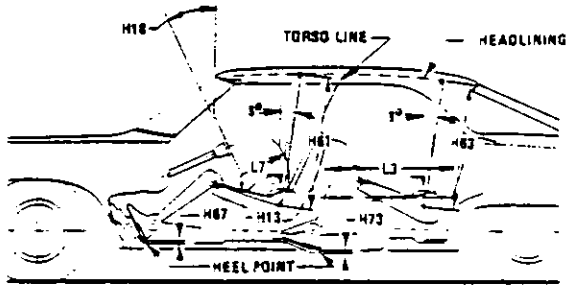
Exterior Ground Clearance

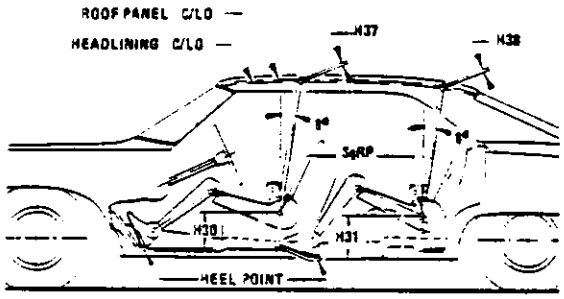


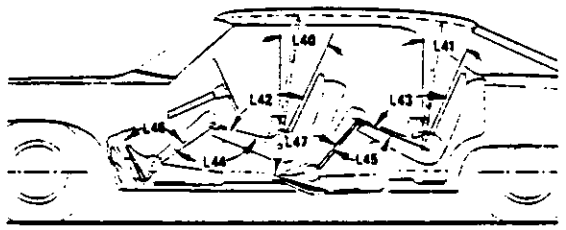
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

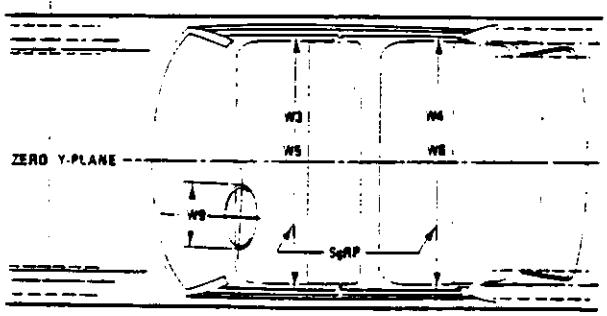
Interior Car And Body Dimensions – Key Sheet

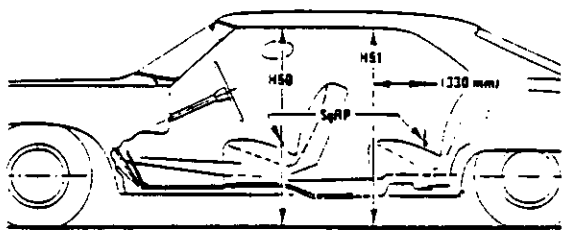






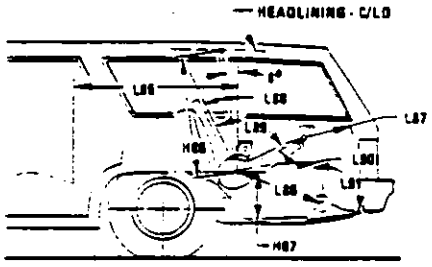


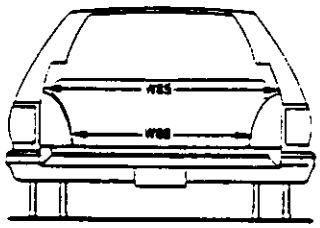




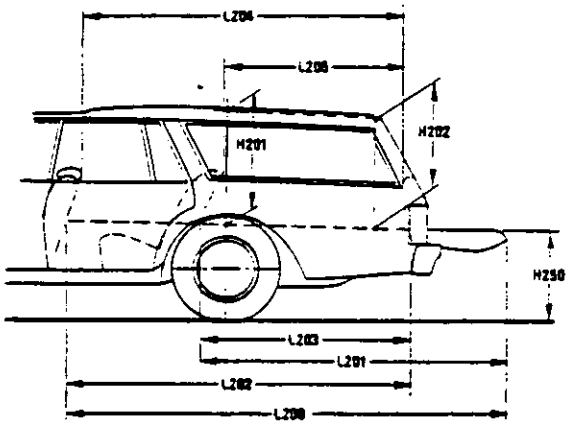
Interior Car And Body Dimensions – Key Sheet

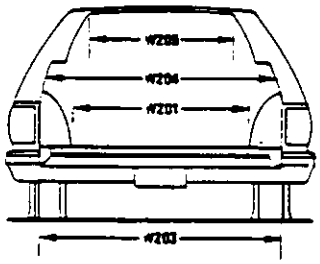
Third Seat



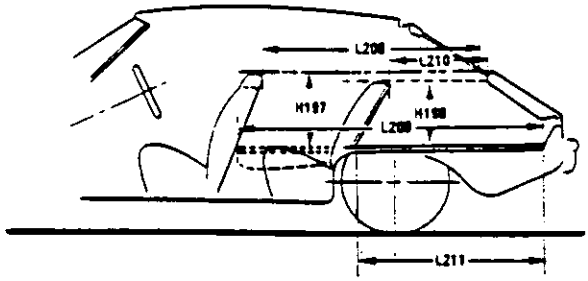


Cargo Space





Station Wagon



Hatchback

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car 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.

W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.

W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.

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.

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 OVERHANG–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.

L125 COWL POINT "X" COORDINATE.

L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and or grills are integrated with the profile, measurement is made at the foremost point of front end contour.

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.

L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

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.

H127 HEADLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the lowest headlamp lens to ground.

H128 TAILLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.

H133 BOTTOM OF DOOR CLOSED–FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

H135 BOTTOM OF DOOR CLOSED–REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

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

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.

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet
Dimensions Definitions

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.

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

L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.

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.

L23 NORMAL DRIVING AND RIDING SEAT TRACK LEVEL. 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.

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.

H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.

H17 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.

H37 HEADLINING TO ROOF PANEL–FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.

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.

PD1 PASSENGER DISTRIBUTION–FRONT.

Rear Compartment Dimensions

L3 COMPARTMENT ROOM–SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet
Dimensions Definitions

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 front seatback minus 51 mm (2.0 in.).

L50 SgRP COUPLE DISTANCE–SECOND. The dimension measured horizontally from the driver SgRP–front to the SgRP–second.

L51 MINIMUM EFFECTIVE LEG ROOM–SECOND. The dimension measured along a line from the ankle pivot center to the SgRP–second plus 254mm (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.

H38 HEADLINING TO ROOF PANEL–SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.

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.

PD2 PASSENGER DISTRIBUTION–SECOND.

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-J1100.

H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

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 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 the 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 51mm (2.0 in). With rear-facing third seat, dimension is measured to closure.

L88 BACK ANGLE–THIRD. Mesured 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. rear from the SgRP–third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).

PD3 PASSENGER DISTRIBUTION–THIRD.

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 he 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.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet
Dimensions Definitions

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.

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:

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

Measured in mm:

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

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:

$$\frac{L506 \times W500 \times H503}{1728} = ft^3$$

Measured in mm:

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

V6 TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:

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

Measured in mm:

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

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:

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

Measured in mm:

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

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

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

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

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

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

V3 HATCHBACK.
Measured in inches:

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

Measured in mm:

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

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:

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

Measured in mm:

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

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Index