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MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1986

Manufacturer	Car Line	
TOYOTA MOTOR CORPORATION	TOYOTA SUPRA	
Mailing Address	Issued	Revised
Toyota Motor Sales, U.S.A., Inc. 2055 West 190th Street Torrance, California 90504	1986	

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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Motor Vehicle Manufacturers Association
of the United States, Inc.

MVMA Specifications Form

Passenger Car

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 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 TOYOTA SUPRA
Model Year 1986 Issued _____ Revised (e) _____

Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk Cargo Load—Kilograms (Pounds)
Toyota Supra Liftback		MA70L-BLMVFA	2/2	56
Toyota Supra Liftback		MA70L-BLPVFA	2/2	56
Toyota Supra Sport Roof		MA70L-BJMVFA	2/2	56
Toyota Supra Sport Roof		MA70L-BJPVFA	2/2	56

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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					E x h a u s t S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in³) L	Cyls. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N·m (lb. ft.)			
MA70L-BLMVFA	2.954	FI	9.2	149/ 6000	251/ 4800		5 M/T	4.300
MA70L-BLPVFA	2.954	FI	9.2	149/ 6000	251/ 4800		4 A/T	4.300
MA70L-BJMVFA	2.954	FI	9.2	149/ 6000	251/ 4800		5 M/T	4.300
MA70L-BJPVFA	2.954	FI	9.2	149/ 6000	251/ 4800		4 A/T	4.300

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Engine Description/Carb.
Engine Code

7M-GE

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sonic, conc, conv, hemi, wedge, pre-camber, etc.)	Inline, front, vertical, DOHC, pent roof	
Manufacturer		
No. of cylinders	6	
Bore	83.0 mm	
Stroke	91.0 mm	
Bore spacing (C/L to C/L)	90 mm	
Cylinder block material & mass (kg (lbs.))	Gray cast iron	
Cylinder block deck height	230.5 mm	
Deck clearance (minimum) (above or below block)	0 mm	
Cylinder head material & mass (kg (lbs.))	Aluminum alloy	
Cylinder head volume (cm ³)	40.0 cm ³	
Head gasket thickness (compressed)	1.35 mm	
Minimum combustion chamber total volume (cm ³)	60.05 cm ³	
Cyl. no. system (front to rear)*	L Bank	1-2-3-4-5-6
	R Bank	-
Firing order	1-5-3-6-2-4	
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: 195 kg, A/T: 187 kg	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy, 372 g
--	-----------------------

Engine - Camshaft

Location	Over cylinder head	
Material & mass (kg (weight, lbs.))	Alloy cast iron, IN.: 2.3 kg, EX.: 2.3 kg	
Drive type	Chain / belt	Belt
	Width / pitch	25.4/8.0

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

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

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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, 0.710 kg

Engine - Crankshaft

Material & mass (kg., (weight, lbs.)) Carbon steel, 24.2 kg

End thrust taken by bearing (no.) No. 4

Number of main bearings

Seal (material,
 one, two piece
 design, etc.)
 Front
 Rear

Engine - Lubrication System

Normal oil pressure (kPa (psi) at engine rpm) 265 kPa/2000 rpm

Type oil intake (floating, stationary) Stationary

Oil filter system (full flow, part, other) Full flow

Capacity of oil case, less filter-refill-L (qt.) 3.9 L

Engine - Diesel Information

Diesel engine manufacturer

Glow plug, current drain at 0°F

Injector
 nozzle Type
 Opening pressure (kPa (psi))

Pre-chamber design

Fuel in-
 jection pump Manufacturer
 Type

Fuel injection pump drive (belt, chain, gear)

Supplementary vacuum source (type)

Fuel heater (yes/no)

Water 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

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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Std.
Coolant fill location (rad., bottle)		Radiator
Radiator cap relief valve pressure (kPa (psi))		88 kPa
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open at °C (°F)	88°C
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	
	Number of pumps	1
	Drive (V-belt, other)	Belt
	Bearing type	Sealed oil roller ball
	Housing material	
By-pass recirculation (type (inter., ext.))		External
Cooling system capacity	With heater—L (qt.)	M/T: 8.1 L, A/T: 8.0 L
	With air cond.—L (qt.)	M/T: 8.1 L, A/T: 8.0 L
	Opt. equipment (specify—L (qt.))	N.A.
Water jackets full length of cyl. (yes, no)		Yes
Water seal around cylinder (yes, no)		No
Water jackets open at head face (yes, no)		
Radiator core	Std., A/C, HO	
	Type (cross-flow, etc.)	Vertical flow
	Construction (fin & tube mechanical, brazed, etc.)	
	Material, mass (kg (wgt. lbs.))	
	Width	648 mm
	Height	375 mm
	Thickness	32 mm
Fins per inch		M/T: 7.3, A/T: 10.2
Radiator end tank material		
Fan	Std., elec., opt.	
	Number of blades & type (flex, solid, material)	7, Solid
	Diameter & projected width	430 mm, 54.5 mm
	Ratio (fan to crankshaft rev.)	1.25
	Fan output type	Fluid coupling
	Drive type (direct, remote)	Belt
	RPM at idle (elec.)	
	Motor rating (wattage) (elec.)	
	Motor switch (type & location) (elec.)	
	Switch point (temp., pressure) (elec.)	
Fan shroud (material)		Resin

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

Induction type: carburetor, fuel injection system, etc.		Fuel injection	
Carburetor	Mfg.	-	
	Choke (type)	-	
	Idle speed (rpm) (spec. neutral or drive and procedure if used)	Manual	-
		Automatic	-
Idle A/F mix.		Preset at manufacturer	
Fuel injection	Point of injection (no.)	6	
	Constant, pulse, flow	Pulse	
	Control (electronic, mech.)	Electronic	
	System pressure (kPa (psi))	250 kPa	
Intake manifold heat control (exhaust or water thermostatic or fixed)		N.A.	
Air cleaner type	Standard	Dry, 1 element, without hot air intake	
	Optional	N.A.	
Fuel pump	Type (elec. or mech.)	Electro magnetic	
	Location (eng., tank)	In fuel tank	
	Pressure range (kPa (psi))	250 kPa	

Fuel Tank

Capacity (refill L (gallons))		67.9 L
Location (describe)		Rear part under floor
Attachment		Band
Material & Mass (kg (weight (lbs)))		Steel plate
Filler pipe	Location & material	Right rear, steel pipe
	Connection to tank	Screw tightening
Fuel line (material)		Steel
Fuel hose (material)		Rubber
Return line (material)		Steel
Vapor line (material)		Steel
Extended range tank	Opt. n.a.	N.A.
	Capacity (L (gallons))	-
	Location & material	-
	Attachment	-
Auxiliary tank	Opt. n.a.	N.A.
	Capacity (L (gallons))	-
	Location & material	-
	Attachment	-
	Selector switch or valve	-
Separate fill		-

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		FEI + O ₂ sensor + EGR + 3 way cat.
	Air injection	Pump or pulse	-
		Driven by	-
		Air distribution (head, manifold, etc.)	-
		Point of entry	-
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow
		Exhaust source	Cylinder head
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake manifold
	Catalytic Converter	Type	3 way
		Number of	1
Location(s)		Forward under floor area	
Volume [L (in ³)]		1.7 L	
	Substrate type	Monolith	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Closed
	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum
	Discharges (to intake manifold, other)		Intake manifold
	Air inlet (breather cap, other)		Air cleaner
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Charcoal canister
		Carburetor	N.A.
Electronic system	Vapor storage provision		Charcoal canister
	Closed loop (yes/no)	Open loop (yes/no)	Yes -

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Semidual
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass (kg (weight (lb)))		1. Straight thru 1. Reverse flow
Resonator no. & type		N.A.
Exhaust pipe	Branch o.d., wall thickness	ø42.7, t 1.5
	Main o.d., wall thickness	ø60.5, t 1.5
	Material & Mass (kg (weight (lb)))	Stainless steel
Inter- mediate pipe	o.d. & wall thickness	ø54, t 1.6, t 1.4
	Material & Mass (kg (weight (lb)))	Aluminum coated steel
Tail pipe	o.d. & wall thickness	ø42.7, t 1.0
	Material & Mass (kg (weight (lb)))	Stainless steel

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Transmissions/Transaxle

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

Manual Transmission/Transaxle

Number of forward speeds		5	
Transmission ratios	In first	3.285	
	In second	1.894	
	In third	1.275	
	In fourth	1.000	
	In fifth	0.783	
	In overdrive	—	
	In reverse	3.768	
Synchronous meshing (specify gears)		1st, 2nd, 3rd, 4th, 5th	
Shift lever location		Floor	
Lubricant	Capacity (L (pt.))		2.4 L
	Type recommended		Multi purpose API GL-4
	SAE viscosity number	Summer	SAE 75W-90
		Winter	SAE 75W-90
		Extreme cold	SAE 75W-90

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		AISIN SEIKI, Single dry plate
Assist (yes, no, percent)		
Type pressure plate springs		Diaphragm
Total spring load (N (lb.))		6370 N
No. of clutch driven discs		1
Clutch facing	Material	Semi mold
	Manufacturer	AKEBONO BRAKE
	Part number	31256-24010
	Rivets, plate	16
	Rivet size	4 mm
	Outside & inside dia.	236 mm x 150 mm
	Total eff. area (cm ² (in. ²))	26.1 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	Rubber

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Automatic Transmission/Transaxle

Trade name		A340E
Type and special features (describe)		Electronic controlled planetary gear
Selector	Location	Floor
	Ltr. No. designation	P-R-N-D-2-L
Gear ratios	1st	2.804
	2nd	1.531
	3rd	1.000
	4th	0.705
	Rev.	2.393
Max. upshift speed - drive range (km/h (mph)) *		1→2: 48/53, 2→3: 94/110, 3→4: 155/174
Max. lockdown speed - drive range (km/h (mph)) *		2→1: 43/46, 3→2: 93/103, 4→3: 150/165
Min. overdrive speed (km/h (mph))		3→4: 34, 4→3: 25
Torque converter	Number of elements	3 elements, 1 step, 2 phases
	Max. ratio at stall	2.10 : 1
	Type of cooling (air, liquid)	Water cooled
	Nominal diameter	254 mm
Lubricant	Capacity (refill L (pt.))	7.2 L
	Type Recommended	Dexron II
Oil cooler (std., opt., NA, internal, external, air, liquid)		Electronic controlled, with lock-up clutch

Axle or Front Wheel Drive Unit * Normal/Power

Type (front, rear)		Rear	
Description		Hypoid gear	
Limited slip differential (type)		Pre-load + Torque ratio	
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)		Double row angular ball bearing	
Lubricant	Capacity [L (pt.)]	1.3 L	
	Type recommended	Hypoid gear oil API GL-5	
	SAE viscosity number	Summer	SAE 90
		Winter	SAE 90
		Extreme cold	SAE 80W-90

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

Axle ratio (or overall too gear ratio)		4.300
No. of teeth	Pinion	10
	Ring gear or gear	43
Ring gear o.d.		205 mm
Transaxle	Transfer gear ratio	-
	Final drive ratio	-

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Propeller Shaft – Rear Wheel Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)		No. 1 Straight tube No. 2 Inner damper
Outer diam. x length* x wall thickness	Manual 3-speed trans.	-
	Manual 4-speed trans.	-
	Manual 5-speed trans.	No. 1 65 x 541.5 x 1.6 mm No. 2 75 x 558 x 1.6 mm
	Overdrive	-
	Automatic transmission	No. 1 75 x 467 x 1.6 mm No. 2 75 x 558 x 1.6 mm
Intermediate bearing	Type (plain, anti-friction)	Ball bearing
	Lubrication (fitting, prepack)	Sealed grease
Spline yoke	Type	Spline
	Number of teeth	M/T: 21, A/T: 23
	Spline o.d.	M/T: 27.94 mm, A/T: 30.48 mm
Universal joints	Make and mtg. no.	Front TOYOTA MOTOR CORPORATION
		Rear TOYOTA MOTOR CORPORATION
	Number used	3
	Type (ball and trunnion, cross)	Hooke's-joint
	Rear attach (u-bolt, clamp, etc.)	Flange
	Bearing	Type (plain, anti-friction)
Lubrication (fitting, prepack)		Sealed grease
Drive taken through (torque tube, arms or springs)		Control arm
Torque taken through (torque tube, arms or springs)		Control arm

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

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Axle Shafts - Front Wheel Drive

Number used		-	
Type (straight, solid bar, tubular, etc.)	Left	-	
	Right	-	
Outer diam. x length x wall thickness	Manual transmission	Left	-
		Right	-
	Automatic transmission	Left	-
		Right	-
	Optional transmission	Left	-
		Right	-
Spline yoke	Type	-	
	Number of teeth	-	
	Spline o.d.	-	
Universal joints	Make and mtg. no.	Inner	-
		Outer	-
	Number used		-
	Type, size, plunge	Inner	-
		Outer	-
	Attach (u-bolt, clamp, etc.)		-
	Sealing	Type (plain, anti-friction)	-
Lubrication (fitting, grease)		-	
Drive taken through (torque tube, arms or springs)		-	
Torque taken through (torque tube, arms or springs)		-	

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

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Body Type And/Or
 Engine Displacement

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Suspension - General

Car leveling	Std. coil, n.s.	N.A.
	Type (air, hyd., etc.)	N.A.
	Manual, auto. controlled	N.A.
Provision for brake and control		Front suspension, geometry
Provision for accel. squat control		Rear suspension, geometry
Provisions for car jacking		
Shock absorber (front & rear)	Type	Twin tube
	Make	KAYABA or TOKIKO
	Piston diameter	Fr: $\phi 30.2$ mm, Rr: $\phi 25$ mm
	Rod diameter	$\phi 12.5$ mm

Suspension - Front

Type and description		Double wishbone
Drive and torque taken through		
Travel	Full bounce	85 mm
	Full rebound	100 mm
Spring	Type (coil, leaf, other) & material	Coil SUP7 NV
	Insulators (type & material)	
	Size (coil design height & i.d., bar length & dia.)	371 x 98.5 mm
	Spring rate (N/mm (lb./in.))	2.6 kg/mm
	Rate at wheel (N/mm (lb./in.))	2.2 kg/mm
Stabilizer	Type (link, linkless, frameless)	Torsion bar
	Material & bar diameter	ASB 25N

Suspension - Rear

Type and description		Double wishborn
Drive and torque taken through		Control arm
Travel	Full bounce	85 mm
	Full rebound	110 mm
Spring	Type (coil, leaf, other) & material	Coil, SUP7 NV
	Size (length & width, coil design height & i.d., bar length & dia.)	371 x 98 mm
	Spring rate (N/mm (lb./in.))	2.6 kg/mm
	Rate at wheel (N/mm (lb./in.))	2.2 kg/mm
	Insulators (type & material)	Rubber cushion
If leaf	No. of leaves	N.A.
	Shape (comp. or tens.)	N.A.
Stabilizer	Type (link, linkless, frameless)	Torsion bar
	Material & bar diameter	ASB 25N
Track bar (type)		N.A.

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Body Type And/Or
 Engine Displacement

All models

Brakes - Service

Description				
Brake type (std., opt., n.a.)		Front (disc or drum)	Disc, Std.	
		Rear (disc or drum)	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 (intake, pump, etc.)			Direct vacuum	
Vacuum reservoir (volume in. ³)			N.A.	
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			N.A.	
Anti-lock device type (std., opt., n.a.) (F/R)			Opt.	
Effective area [cm ² (in. ²)]* (F/R)			200/144 cm ²	
Gross lining area [cm ² (in. ²)]**(F/R)			200/144 cm ²	
Swept area [cm ² (in. ²)]**(F/R)			1566/1187 cm ²	
Rotor	Outer working diameter	F/R	299/290 mm	
	Inner working diameter	F/R	198/215 mm	
	Thickness	F/R	22.0/18.0 mm	
	Material & type (vented/solid)	F/R	Cast iron, ventilated/Cast iron, ventilated	
Drum	Diameter & width	F/R	-	
	Type and material	F/R	-	
Wheel cylinder bore		F/R	60.33/38.10 mm	
Master cylinder : Bore/stroke		F/R	25.40/25.40 / 16.60/12.00	
Pedal arc ratio			4.01	
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))			11700 kPa	
Lining clearance		F/R	Self adjusting/Self adjusting	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Bonded
		Rivet size		-
		Manufacturer		SUMITOMO
		Lining code*****		-
		Material		Resin molded
		****	Primary or out-board	112.5 x 51.5 x 10.0 mm
		Size	Secondary or in-board	112.5 x 51.5 x 10.0 mm
		Shoe thickness (no lining)		5.5 mm
	Rear wheel	Bonded or riveted (rivets/seg.)		Bonded
		Manufacturer		SUMITOMO
		Lining Code*****		-
		Material		Resin molded
		****	Primary or out-board	109.0 x 35.5 x 10.0 mm
		Size	Secondary or in-board	109.0 x 35.5 x 10.0 mm
		Shoe thickness (no lining)		5.5 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.

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Body Type And/Or
 Engine Displacement

All models

Tires And Wheels (Standard)

Tires	Size (load range, ply)		225/50 TR16
	Type (bias, radial, etc.)		Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	200 kPa
		Rear (kPa (psi))	200 kPa
	Rev./mile—at 70 km/h (45 mph)		848.8
Wheels	Type & material		Aluminum alloy
	Rim (size & flange type)		7-JJ x 16
	Wheel offset		37
	Attachment	Type (bolt or stud)	Nut
		Circle diameter	114.3 mm
Number & size		5 - M12 x 1.5	
Spare	Tire and wheel (same, if other describe)		Tire: 205/55R16 Wheel: 7-JJx16
	Storage position & location (describe)		Trunk room

Tires And Wheels (Optional)

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)	
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)	Drum in disc
	Drum diameter	190.0 mm
	Lining size (length x width x thickness)	182.3 x 25.0 x 2.5 mm

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

Car Line Toyota Supra
 Model Year 1986 Issued _____ Revised (e) _____

Body Type And/Or
 Engine Displacement

All models

Steering

Manual (std., opt., n.a.)		N.A.		
Power (std., opt., n.a.)		Std.		
Adjustable steering wheel (tilt, swing, other)	Type and description		Tilts & telescopic	
	(Std., opt., n.a.)		Std.	
Wheel diameter (W9) SAE J1100		Manual	-	
		Power	382 mm	
Turning diameter ... (2.)	Outside front	Wall to wall (l. & r.)	11.6 m	
		Curb to curb (l. & r.)	10.8 m	
	Inside rear	Wall to wall (l. & r.)	6.2 m	
		Curb to curb (l. & r.)	6.4 m	
Steering Radius*				
Manual	Gear	Type	-	
		Make	-	
		Ratio	Gear	-
			Overall	-
	No. wheel turns (stop to stop)		-	
Power	Type (control, linkage, etc.)		Hydraulic integral	
	Make		TOYOTA MOTOR CORPORATION	
	Gear	Type	Rack & pinion	
		Ratio	Gear	∞
			Overall	16.5
	Pump (drive)		V belt	
	No. wheel turns (stop to stop)		3.0	
Linkage	Type		Rack & pinion	
	Location (front or rear of wheels, other)		Front of wheels	
	Tie rods (one or two)		Two	
Steering axis	Inclination at camber (deg.)		10°50'	
	Bearings (type)	Upper	Ball joint	
		Lower	Ball joint	
		Thrust	-	
Steering spindle & joint type		Ball joint		
Wheel spindle	Diameter	Inner bearing	ø35 mm	
		Outer bearing	ø77 mm	
	Thread (size)		M24 x 1.5 mm	
	Bearing (type)		Double row ball bearing	

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

MVMA Specifications Form
Passenger Car
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Car Line Toyota Supra
 Model Year 1986 Issued _____ Revised (e) _____

Body Type And/Or
 Engine Displacement

All models

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	7°30'±45'
		Camber (deg.)	-5'±45'
		Toe-in (outside track-mm (in.))	0±2 mm
	Service reset*	Caster	7°30'±30'
		Camber	-5'±30'
		Toe-in	0±1 mm
	Periodic M.V. inspection	Caster	-
		Camber	-
		Toe-in	-
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-15'±45'
		Toe-in (outside track-mm (in.))	in. 3±2 mm
	Service reset*	Camber	-15'±30'
		Toe-in	in. 3±1 mm
	Periodic M.V. inspection	Camber	-
		Toe-in	-

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

Electrical - Instruments and Equipment

Speedometer	Type	Needle type, round
	Tno odometer (std., opt., n.a.)	Std.
EGR maintenance indicator		N.A.
Charge indicator	Type	Electrical gauge
	Warning device	Lamp
Temperature indicator	Type	Electrical gauge
	Warning device	N.A.
Oil pressure indicator	Type	Electrical gauge
	Warning device	N.A.
Fuel indicator	Type	Electrical gauge
	Warning device	Lamp
Windshield wiper	Type (standard)	Motor 3 speed
	Type (optional)	
	Blade length	Dr: 500 mm, Pa: 458 mm
	Sweep area (cm ² (in. ²))	6400 cm ²
Windshield washer	Type (standard)	Electrical
	Type (optional)	
	Fluid level indicator	N.A.
Horn	Type	Electrical flat type
	Number used	2
Other		

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

Car Line Toyota Supra
 Model Year 1986 Issued _____ Revised (e) _____

Engine Description/Carb.
 Engine Code

7M-GE

Electrical - Supply System

Battery	Make	Nippon dench, Yuasa dench
	Model, std., (opt.)	75D31L (N70ZL)
	Voltage	12V
	Amps at 0°F cold crank	390
	Minutes-reserve capacity	115
	Amp/hrs. - 20 hr. rate	70
	Location	Engine compartment left front
Generator or alternator	Type and rating	AC 70A
	Ratio (alt. crank/rev.)	2.55:1
	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	NIPPON DENSO
	Model	-
	Current	Engine stopped - A 0 Engine idling - A 1.1
Spark plug	Make	NIPPON DENSO-ND, NIHON TOKUSHU TOGYO-NGK
	Model	ND: PQ16R, NGK: BCPR5EP11
	Thread (mm)	M14.0-19.0 mm
	Tightening torque (N·m (lb. ft.))	17.7 N·m
	Gap	1.1 mm
Distributor	Number per cylinder	
	Make	NIPPON DENSO
	Model	-

Electrical - Suppression

Locations & type	Resistive spark plug, frame spray coating rotor, resistive high tension cord
------------------	--

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Toyota Supra
Model Year 1986 Issued _____ Revised (e) _____

Body Type

All models

Body

Structure

Bumper system
front - rear

Bar material & mass: Urethane, 4.6 kg/5.3 kg
Reinforcement material & mass: Steel, 11.5 kg/12.3 kg

Anti-corrosion treatment

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		Acryl
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Counterbalance
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	Counterbalance
	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 + foam pad
	Rear	Wire frame + foam pad
	3rd seat	-
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Spring + foam pad
	Rear	Panel frame + foam pad
	3rd seat	-

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

Car Line Toyota Supra
 Model Year 1986 Issued _____ Revised (e) _____

Body Type

All models

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description *	3 points, ELR / 2 points, ALR
	Location *	3 points, front seat / 2 points, rear seat
Passive seat belts	Standard/optional	N.A.
	Power/manual	-
	2 or 3 point	-
	Knee barrier belt	-

Frame

* Front/Rear

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

Glass	SAE Ref. No.	
Windsield glass exposed surface area (cm ² (in. ²))	S1	8819 cm ²
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	3885 cm ²
Backlight glass exposed surface area (cm ² (in. ²))	S3	9464 cm ²
Total glass exposed surface area (cm ² (in. ²))	S4	22168 cm ²
Windsield glass (type)		Laminated, tinted, curved
Side glass (type)		Tempered, curved
Backlight glass (type)		Tempered, curved

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

Car Line Toyota Supra
 Model Year 1986 Issued _____ Revised (e) _____

Body Type

All models

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

Air conditioning (manual, auto, temp control)	Std.
Clock (digital, analog)	Std.
Compass / thermometer	
Console (floor, overhead)	
Defroster, elec. defogging	Std.
Electronic	Diagnostic warning (integrated, individual)
	Instrument cluster (list instruments)
	Keyless entry
	Tripmeter (avg. spd., fuel)
	Voice alert (list name)
	Other
Fuel door lock (remote, key, electric)	Auto head on / off delay, dimming
	Cornering
	Courtesy (map, reading)
	Door lock, ignition
	Engine compartment
	Fog
	Glove compartment
	Trunk
	Other
Mirrors	Day/night (auto, man.)
	L.H. (remote, power, heated)
	R. H. (convex, remote, power, heated)
	Visor vanity (RH / LH, illuminated)
Parking brake-auto release (warning light)	
Power equipment	Door locks / deck lid - specify
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)
	Opt.
	Side windows
	Std.
	Vent windows
Radio systems	N.A.
	Rear window
	N.A.
Antenna (location, whip, whistled, power)	Power
	AM, FM, stereo, tape: CB
	Std.: AM/FM MTX ETR, Opt.: AM/FM MTX ETR W/Cassette
Speaker (number, location) Premium sound	N.A.
Roof open air/fixed (flip-up, sliding, "T")	
Speed control device	Std.
Speed warning device (light, buzzer, etc.)	N.A.
Tachometer (rpm)	
Theft protection-type	Steering lock

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Toyota Supra

Model Year 1986

Issued

Revised (•)

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.	All models
Width		
Tread (front)	W101	1485 mm
Tread (rear)	W102	1485 mm
Vehicle width	W103	1745 mm
Body width at Sg AP (front)	W117	1676 mm
Vehicle width (front doors open)	W120	4023 mm
Vehicle width (rear doors open)	W121	-
Front fender overall width	W106	
Rear fender overall width	W107	
Turnsteer angle (deg.)	W122	31.5°
Length		
Wheelbase	L101	2595 mm
Vehicle length	L103	4620 mm
Overhang (front)	L104	960 mm
Overhang (rear)	L105	1065 mm
Upper structure length	L123	2681 mm
Rear wheel C/L "X" coordinate	L127	2595 mm
Cowl point "X" coordinate	L125	599.6 mm
Front end length at cantennae	L126	
Rear end length at cantennae	L129	
Height*		
Passenger distribution (front/rear)	P01.2.3	2/1
Trunk/cargo load		0
Vehicle height	H101	1310 mm
Cowl point to ground	H114	910 mm
Deck point to ground	H138	915 mm
Rocker panel-front to ground	H112	180 mm
Bottom of door closed-front to grd.	H133	310 mm
Rocker panel-rear to ground	H111	175 mm
Bottom of door closed-rear to grd.	H135	-
Windshield slope angle	H122	62.5°
Backlight slope angle	H121	72.5°
Ground Clearance*		
Front bumper to ground	H102	405 mm
Rear bumper to ground	H104	365 mm
Bumper to ground (front at curb mass (wt.))	H103	415 mm
Bumper to ground (rear at curb mass (wt.))	H105	405 mm
Angle of approach (degrees)	H106	12.5°
Angle of departure (degrees)	H107	18.5°
Ramp breakover angle (degrees)	H147	12°
Axle differential to ground (front / rear)	H153	160 mm
Min. running ground clearance	H156	140 mm
Location of min. run. grd. clear.		FR. Exhaust pipe

* All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified. Manufacturer's 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

Car Line Toyota Supra
 Model Year 1986 Issued _____ Revised (e) _____

See Key Sheets for definitions

Body Type

SAE
Ref.
No.

All models

Front Compartment

Sg RP front, "X" coordinate	L31	1570 mm
Effective head room	H61	Liftback: 953 mm Targa top: 954 mm
Max. eff. leg room (accelerator)	L34	1107 mm
Sg RP to heel point	H30	189.5 mm
Sg RP to heel point	L53	
Back angle	L40	21°
Hip angle	L42	
Knee angle	L44	
Foot angle	L46	
Design H-point front travel	L17	238.2 mm. Opt. power seat: 236.4 mm
Normal driving L. leg seat track trvl.	L23	
Shoulder room	W3	1334 mm
Hip room	W5	1340 mm
Upper body opening to ground	H50	1193 mm
Steering wheel maximum diameter	W9	
Steering wheel angle	H18	21°03'
Accel. heel pt. to steer. whl. cnt.	L11	
Accel. heel pt. to steer. whl. cnt.	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 coupe distance	L50	550 mm
Effective head room	H63	Liftback: 860.5 mm. Targa top: 861.5 mm
Min. effective leg room	L51	627 mm
Sg RP (second to heel)	H31	251 mm
Knee clearance	L48	-185 mm
Compartment room	L3	500.5 mm
Shoulder room	W4	1281.5 mm
Hip room	W6	1206 mm
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	-
Liftover height	H195	830 mm

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

Car Line Toyota Supra
 Model Year 1986 Issued _____ Revised (e) _____

See Key Sheets for definitions

Body Type

S&S
Ref.
No.

All models

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	188.5 mm
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	1475 mm
Cargo length at floor (front)	L209	1525 mm
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	0.362 m ³
Hidden cargo volume (m ³ /ft. ³)	V4	0.311 m ³
Cargo volume index-rear of 2-seat	V11	

Aerodynamics*

Wheel lid to ground, front		
Wheel lid 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 Toyota Supra
 Model Year 1986 Issued _____ Revised (e) _____

Body Type

All models

Vehicle Fiducial Marks

Fiducial Mark
Number*

Define Coordinate Location

Front

Flange part front end location for jack-up under rocker.

Rear

Flange part rear end location for jack-up under rocker.

Fiducial
Mark
Number

Front	W21	W7 - 34.2
	L54	L17 + 8
	H81	H10 - 30
	H161	200 mm
	H163	180 mm

Rear	W22	W7 - 27.8
	L55	L31 + 2
	H82	H10 - 30
	H162	205 mm
	H164	175 mm

* 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 Toyota Supra
 Model Year 1986 Issued _____ Revised (e) _____

Body Type

All models

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	750 mm
		Lowest	-
	Taillamp (SAE - H128)	Highest**	765 mm
		Lowest	-
	Sidemarker	Front	531 mm
		Rear	630 mm
Distance from C.L. of car to center of bulb	Headlamp	Inside	-
		Outside**	543 mm
	Taillamp	Inside	471 mm
		Outside**	585 mm
	Directional	Front	449 mm
		Rear	700 mm
Halogen headlamp (std., opt., n.s.)	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.

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Revised (01

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

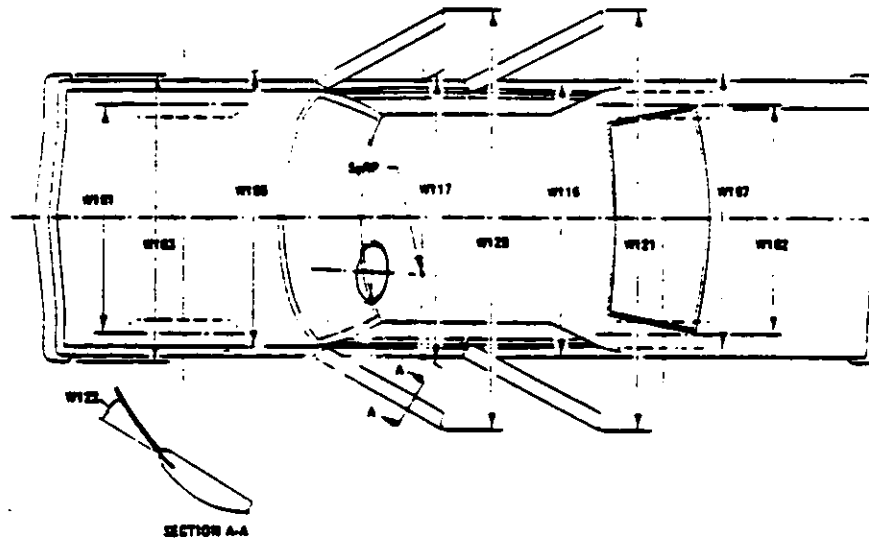
METRIC (U.S. Customary)Model Year 1986 Issued Revised (e) [illegible]

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

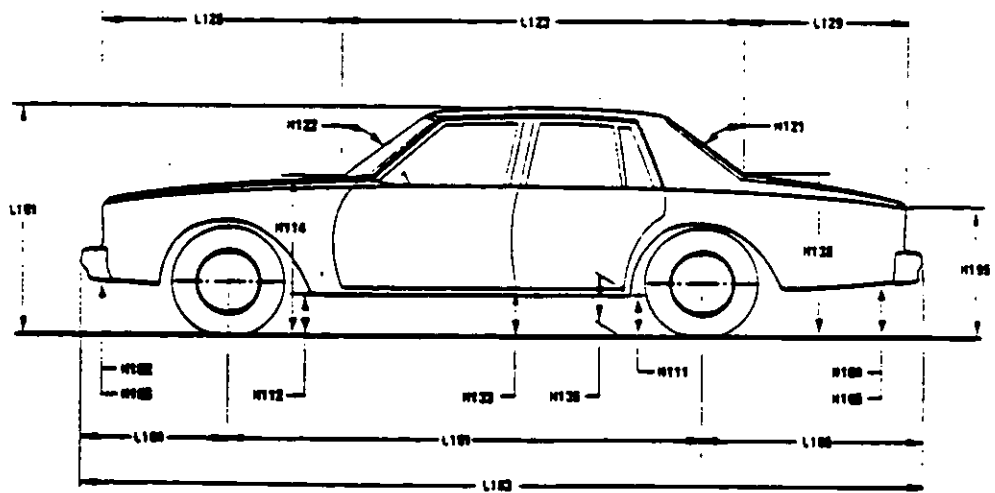
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

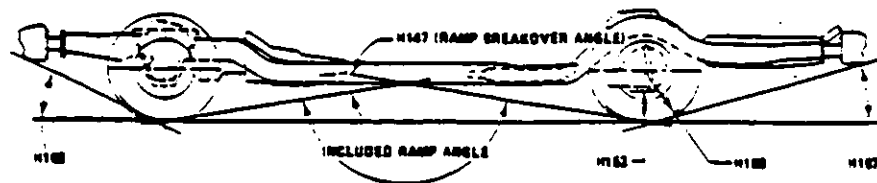
Exterior Width



Exterior Length & Height



Exterior Ground Clearance

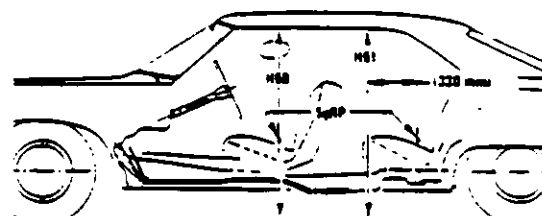
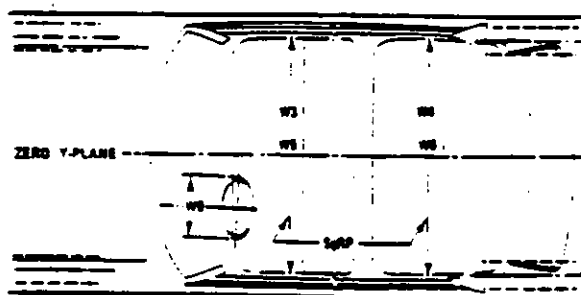
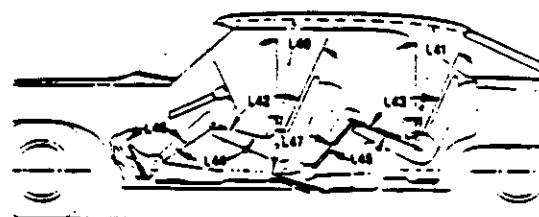
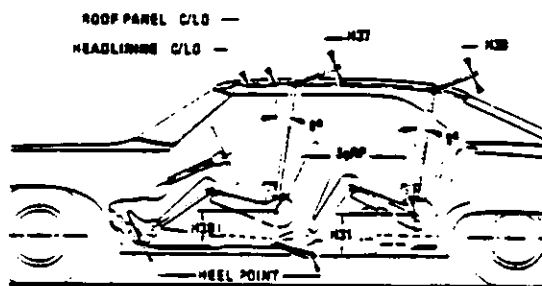
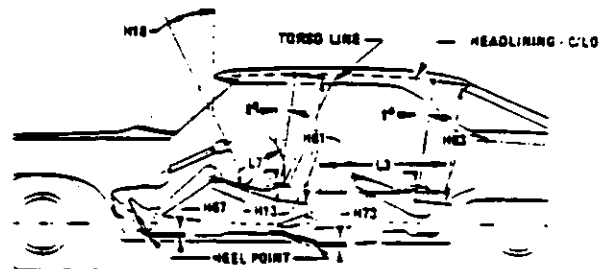
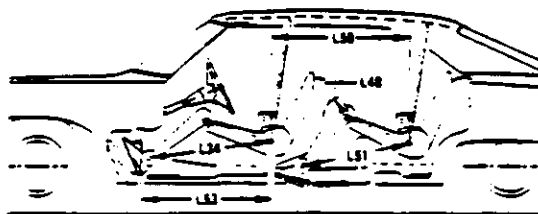


MVMA Specifications Form

Passenger Car

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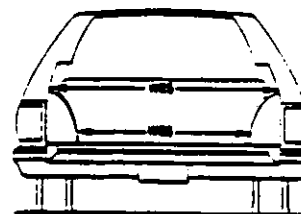
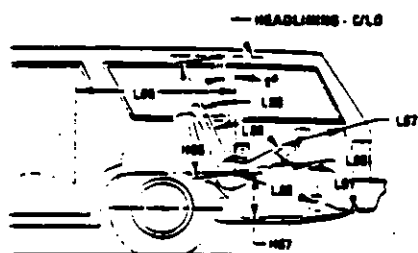
Interior Car And Body Dimensions - Key Sheet



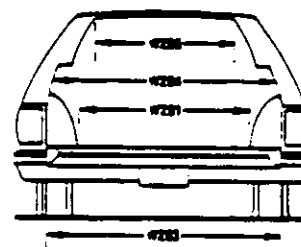
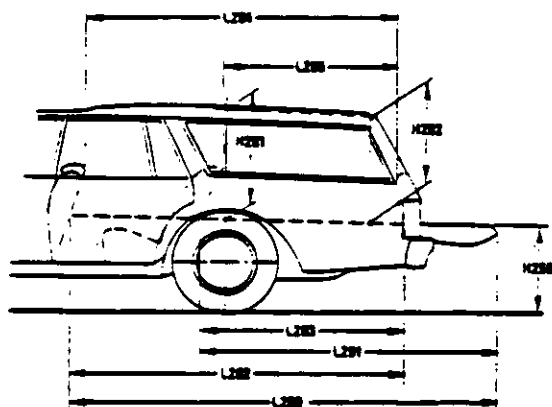
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

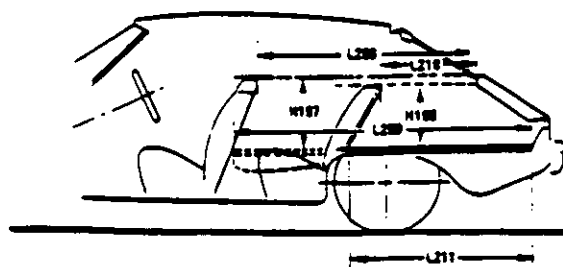
Third Seat



Cargo Space



Station Wagon



Hatchback

MVMA Specifications Form

Passenger Car

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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.

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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.

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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 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.
- 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 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. 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 undeepressed floor covering to the rearmost point on the undeepressed 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 undeepressed floor covering to the rearmost point on the undeepressed 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 undeepressed floor covering to the rearmost point on the undeepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpvs 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 undeepressed floor covering to the rearmost point on the undeepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpvs 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 wheelousings at floor level. For any vehicle not trimmed, measure to the sheet metal.

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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 undeepressed floor covering.
- H201** CARGO HEIGHT. The dimension measured vertically from the top of the undeepressed 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 undeepressed 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 undeepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- V2** STATION WAGON
Measured in inches:

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

$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$
 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 electrically adjusted seats, see the manufacturer's specifications for Design "H" Point).

- L209** 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.
- L208** 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 undeepressed floor covering.
- H198** SECOND SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the second seat back to the undeepressed 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:

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

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