

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1986

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

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

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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)

Table of Contents

1	Car Models
2	Power Teams
3-6	Engine
4	Lubrication System
4	Diesel Information
5	Cooling System
6	Fuel System
7	Vehicle Emission Control
7	Exhaust System
8-10	Transmission, Axles and Shafts
11	Suspension-Front and Rear
12-13	Brakes
13	Tires and Wheels
14-15	Steering
15-16	Electrical
17	Body - Miscellaneous Information
18	Restraint System
18	Frame
18	Glass
19	Convenience Equipment
20-22	Car and Body Dimensions
23	Vehicle Fiducial Marks
24	Lamps and Headlamps
25	Vehicle Mass (Weight)
26	Optional Equipment Differential Mass (Weight)
27-33	Car and Body Dimensions Definitions - Key Sheets
34	Index

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 TERCEL
Model Year 1986 Issued _____ Revised (or) _____

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)	lbs.
3 door Sedan STD		AL21L-ZGKRCA	2/3	25	
3 door Sedan STD		AL21L-ZGHRCA	2/3	25	
3 door Sedan DLX		AL21L-ZGMDCA	2/3	25	
3 door Sedan DLX		AL21L-ZGHDCA	2/3	25	
5 door Sedan STD		AL21L-ZHMRCA	2/3	25	
5 door Sedan STD		AL21L-ZHHRCA	2/3	25	
5 door Sedan DLX		AL21L-ZHMDCA	2/3	25	
5 door Sedan DLX		AL21L-ZHHDCA	2/3	25	
Wagon DLX		AL21LG-ZWMDCA	2/3	25	
Wagon DLX		AL21LG-ZWHDCA	2/3	25	
Wagon 4WD DLX		AL25LG-ZWFDCA	2/3	25	
Wagon 4WD DLX		AL25LG-ZWHDCA	2/3	25	
Wagon 4WD SR5		AL25LG-ZWFQCA	2/3	25	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued Revised (e)

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.

1.452 L and 20.31 in. Hg/100 kPa atmospheric pressure.

SERIES AVAILABILITY	ENGINE						TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in ³)	Cyls. (Barrels, Fl. etc.)	Compr. Ratio	SAE Net at RPM		Ex- haust System		
				kW (bhp)	Torque N·m (lb. ft.)			
	L	barrel		kW/rpm	N·m/ rpm			
AL21L-ZGKRCA	1.452	2	9.0	44/ 4500	102/ 2400	Single	4-speed Manual	3.154
AL21L-ZGHRCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	3-speed Automatic	3.583
AL21L-ZGMDCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	5-speed Manual	3.583
AL21L-ZGHDCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	3-speed Automatic	3.583
AL21L-ZHMRCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	5-speed Manual	3.583
AL21L-ZHHRCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	3-speed Automatic	3.583
AL21L-ZHMDCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	5-speed Manual	3.583
AL21L-ZHHDCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	3-speed Automatic	3.583
AL21LG-ZWMDCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	5-speed Manual	3.583
AL21LG-ZWHDCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	3-speed Automatic	3.727
AL25LG-ZWFDCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	6-speed Manual	4.100
AL25LG-ZWHDCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	3-speed Automatic	3.909
AL25LG-ZWFQCA	1.452	2	9.0	46/ 4800	103/ 2800	Single	6-speed Manual	4.100

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL

Model Year 1986

Issued

Revised (e)

Engine Description/Carb.
Engine Code

3A-C

ENGINE - GENERAL

Type & description (inline, V, angle,
flat, location, front, mid, rear,
transverse, longitudinal, sonic, sonic,
drv, hemi, wedge, pre-camber, etc.)

Inline, front, longitudinal, SOHC, wedge

Manufacturer

No. of cylinders

4

Bore

77.5 mm

Stroke

77.0 mm

Bore spacing (C. L. to C. L.)

88 mm

Cylinder block material & mass (kg (lbs.))

Gray cast iron

Cylinder block deck height

191.0 mm

Deck clearance (minimum)
(above or below block)

0.4 mm above

Cylinder head material & mass (kg (lbs.))

Aluminum alloy

Cylinder head volume (cm³)

32.7

Head gasket thickness
(compressed)

1.20 mm

Minimum combustion chamber
total volume (cm³)

45.65

Cyl. no. system
(front to rear)*

L Bank

1-2-3-4

R Bank

Firing order

1-3-4-2

Intake manifold material & mass (kg (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: 108 kg A/T: 99 kg

Engine - Pistons

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

Aluminum alloy, 250 g

Engine - Camshaft

Location

Over cylinder head

Material & mass (kg (weight, lbs.))

Gray cast iron, 2.38 kg

Drive type

Chain / belt

Belt

Width / pitch

19.05/9.525

* 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 TERCEL

Model Year 1986 Issued _____ Revised (e) _____

Engine Description/Carb.
Engine Code

3A-C

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

Engine - Crankshaft

Material & mass (kg., (weight, lbs.)) Spheroidal cast iron, 9.44 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

Type oil intake (floating, stationary) Stationary

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

Capacity of oil case, less filter-refill-L (qt.) 3.3ℓ w/filter, 3.0ℓ w/o filter

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TEPCFI
Model Year 1986 Issued Revised (101)

Engine Description/Carb.
Engine Code

3A-C

Engine - Cooling System

Coolant/recovery system (std., opt., n.a.)	Std.
Coolant fill location (rad., bottle)	Radiator
Radiator cap relief valve pressure (kPa (psi))	88.3 kPa
Circulation thermostat	Type (choke, bypass)
	Bypass
	Starts to open at °C (°F)
	82°C - 95°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
	Impeller material
	Housing material
Bypass recirculation (type (inter., ext.))	External
Cooling system capacity	With heater—(L/qt.)
	5.3ℓ
	With air cond.—(L/qt.)
	—
	Opt. equipment (specify—(L/qt.))
	—
Water jackets full length of cyl. (yes, no)	Yes
Water all around cylinder (yes, no)	No
Water jackets open at head face (yes, no)	
Radiator core	Std., A/C, HD
	Type (cross-flow, etc.)
	Vertical flow, corrugated fin, brass & copper
	Construction (fin & tube mechanical, braze, etc.)
	Material, mass (kg (wgt. lbs.))
	Width
	488 mm
Height	
350 mm	
Thickness	
16 mm	
Fins per inch	
22.6	
Radiator end tank material	
Fan	Std., elec., opt.
	Number of blades & type (flex, solid, material)
	Diameter & projected width mm
	AL21L(M/T):270x80 AL21L(A/T),-LG(M/T):300x88 AL21LG(A/T):300x100
	Ratio (fan to crankshaft rev.)
	Fan cutout type
	Drive type (direct, remote)
	2050±20
	RPM at idle (elec.)
	AL21L(M/T):2150±150 AL21L(A/T),-LG(M/T):2100±150 AL21LG(A/T):2100±150
Motor rating (wattage) (elec.)	
AL21L(M/T):60 AL21L(A/T),-LG(M/T):80 AL21LG(A/T):120	
Motor switch (type & location) (elec.)	
Water temp, Radiator lower tank	
Switch point (temp., pressure) (elec.)	
90°C	
Fan shroud (material)	
Steel	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued Revised (•)

Engine Description/Carb.
Engine Code

3A-C

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

Induction type: carburetor, fuel injection system, etc.		Carburetor	
Carburetor	Mfr.	Aisan Industry Co., Ltd.	
	Choke (type)	Electrical heating type	
	Idle speed (rpm) (spec. neutral or drive and propane if used)	Manual	650 rpm(w/o PS) 550 rpm(AL21L 4 M/T) 800 rpm(w/PS)
		Automatic	800 rpm(w/o PS) 900 rpm(w/ PS)
Idle A/F mix.		Preset at mfr.	
Fuel injection	Point of injection (no.)	-	
	Constant, pulse, flow	-	
	Control (electronic, mech.)	-	
	System pressure (kPa (psi))	-	
Intake manifold heat control (exhaust or water thermostatic or fixed)		Exhaust type	
Air cleaner type	Standard	Dry type, 1 element, with hot air intake	
	Optional	N.A.	
Fuel pump	Type (elec. or mech.)	Diaphragm type	
	Location (eng., tank)	Cylinder head, rear	
	Pressure range (kPa (psi))	24.5 kPa	

Fuel Tank

Capacity (refill L (gallons))		50ℓ
Location (describe)		Under rear seat floor, Under luggage room floor (4WD Wagon)
Attachment		Band
Material & Mass (kg (weight (lbs)))		Steel
Filler pipe	Location & material	Left wheel house, right wheel house (4WD Wagon); steel
	Connection to tank	Rubber hose (Sedan, FWD Wagon), bolt (4WD Wagon)
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		-

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued Revised 01

Engine Description/Carb.
Engine Code

3A-C

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		EGR+AS+O ₂ S+TWC+OC(FED), EGR+AS+O ₂ S+TWC(CAL)
	Air Injection	Pump or pulse	Reed valve
		Driven by	N.A.
		Air distribution (head, manifold, etc.)	Catalytic converter (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)
		Number of	1
		Location(s)	Forward under floor area
		Volume (L (in ³))	1.3ℓ + 0.7ℓ
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Closed type
	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum, crank case pressure
	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 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
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass (kg (weight lbs))		One, reverse flow
Resonator no. & type		N.A.
Exhaust pipe	Branch o.d., wall thickness	N.A.
	Main o.d., wall thickness	38.1 mm, 1.5 mm
	Material & Mass (kg (weight lbs))	Stainless steel
Inter- mediate pipe	o.d. & wall thickness	42.7 mm, 2.0 mm : 38.1 mm, 1.4 mm
	Material & Mass (kg (weight lbs))	Aluminum coated steel
Tail pipe	o.d. & wall thickness	38.1 mm, 1.2 mm
	Material & Mass (kg (weight lbs))	Aluminum coated steel

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued _____ Revised _____

Engine Description/Carb.
Engine Code

AL21L-ZGKRCA	AL21L-ZGMDCA AL21L-ZHMRCA AL21L-ZHMDCA AL21LG-ZWMDCA	AL25LG-ZWFDCA AL25LG-ZWFQCA
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Transmissions/Transaxle

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

Manual Transmission/Transaxle

Number of forward speeds		4	5	5 (FF)	6 (4WD)
Transmission ratios	In first	3.885	3.666	3.457	4.871
	In second	2.070	2.070		
	In third	1.202	1.376		
	In fourth	1.000	1.000		
	In fifth	-	0.825		
	In overdrive	-	-		
	In reverse	4.368	4.368		
Synchronous meshing (specify gears)		All forward gears			
Shift lever location		Floor			
Lubricant	Capacity (L (qt.))	3.3 L		3.9 L	
	Type recommended	Multipurpose 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)		Aishin seiki, single dry plate	
Assist (yes, no, percent)			
Type pressure plate springs		Diaphragm spring	
Total spring load (N (lb.))		3675N	
No. of clutch driven discs		1	
Clutch facing	Material	Semi mold	
	Manufacturer	Aishin kako, Nisshin Bouseki	
	Part number	31256-16021	31256-16030 (Opt.)
	Rivets/plate	16	
	Rivet size	4 mm	
	Outside & inside dia.	193 x 132 mm	190 x 132 mm (Opt.)
	Total eff. area (cm ² (in. ²))	156	146 (Opt.)
	Thickness	3.5 mm	
	Engagement cushion method	Cushion spring	
Release bearing	Type & method of lubrication	Single raw ball bearing, sealed grease	
Torsional damping	Method: springs, friction material	Rubber	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued _____ Revised (e) _____

Engine Description/Carb.
Engine Code

AL21

AL25

Automatic Transmission/Transaxle

Trade name		A55	A55F
Type and special features (describe)		Hydraulic planetary gear	
Selector	Location	Floor	
	Ltr. No. designation	PRND2L	
Gear ratios	First	2.774	2.991
	Second	1.452	1.565
	Third	0.963	1.038
	Reverse	2.604	2.807
Max. upshift speed - drive range (km/h (mph))		1→2:51, 2→3:103	1→2:45, 2→3:94
Max. kickdown speed - drive range (km/h (mph))		3→2:95, 2→1: 39	3→2:87, 2→1:35
Min. overdrive speed (km/h (mph))		-	
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	216 mm	
Lubricant	Capacity (refill L (pt.))	4.5 L	6.5 L
	Type Recommended	DEXRON II	
Oil cooler (std., opt., NA, internal, external, air, liquid)			

Axle or Front Wheel Drive Unit

Type (front, rear)	Front		Front or both front and rear				
Description	Hypoid gear						
Limited slip differential (type)	-						
Drive pinion offset	11 mm		Fr: 11 mm Rr: 25 mm				
Drive pinion (type)	Hypoid gear						
No. of differential pinions	2						
Pinion / differential adjustment (shim, other)	Shim						
Pinion / differential bearing adjustment (shim, other)	Collapsible sleeve						
Driving wheel bearing (type)	Double angular ball bearing			Fr:Double angular ball bearing, Rr:Radial			
Lubricant	Capacity (L (pt.))	M/T:3.3L	A/T:0.95L	M/T.Fr.:3.3L	M/T.Rr.:1.0L	A/T.Fr.:0.95L A/T.Rr.:1.0L	
	Type recommended	API GL-4	API GL-5	API GL-4	API GL-5	API GL-5	
	SAE vis- cosity number	Summer	SAE 75W-90	SAE 90	SAE 75W-90	SAE 90	SAE 90
		Winter	SAE 75W-90	SAE 90	SAE 75W-90	SAE 90	SAE 90
		Extreme cold	SAE 75W-90	SAE 80W-90	SAE 75W-90	SAE 80W-90	SAE 80W-90

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

Axle ratio (or overall too gear ratio)		3.154	3.583	3.727	4.100	3.909
No. of teeth	Pinion	13	12	11	10	11
	Ring gear or gear	41	43	41	41	43
Ring gear o.d.		158	158	158	Fr.161, Rr.152	Fr.161, Rr.152
Transaxle	Transfer gear ratio					
	Final drive ratio					
AL21L 4 M/T		AL21LG 5M/T AL21L 5M/T 3A/T	AL21LG 3 A/T	AL25LG M/T	AL25LG A/T	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb.
Engine Code _____

3A-C

Propeller Shaft – Rear Wheel Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)		Internal damper	
Outer diam. x length* x wall thickness	Manual 3-speed trans.		
	Manual 4-speed trans.		
	Manual 5-speed trans.		
	Overdrive	65 x 572 x 1.6 mm 65 x 760 x 1.6 mm	
	Automatic transmission	65 x 501.5 x 1.6 mm 65 x 760 x 1.6 mm	
Inter-mediate bearing	Type (plain, anti-friction)	Ball bearing	
	Lubrication (fitting, prepack)	Sealed grease	
Spline yoke	Type	Spline	
	Number of teeth	22	
	Spline o.d.	25 mm	
Universal joints	Make and mtg. no.	Front	Toyota Motor Corporation
		Rear	Toyota Motor Corporation
	Number used	3	
	Type (ball and trunnion, cross)	Fooks 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)		Control arm (AL25)	
Torque taken through (torque tube, arms or springs)		Control arm (AL25)	

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

MVMA Specifications Form Passenger-Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued _____ Revised (•) _____

Engine Description/Carb.
Engine Code

3A-C

Axle Shafts - Front Wheel Drive

Number used		2	
Type (straight, solid bar, tubular, etc.)		Left	Solid bar
		Right	Solid bar
Outer diam. x length* x wall thickness	Manual transmission	Left	ø22 x 523.2 mm
		Right	ø22 x 427.1 mm
	Automatic transmission	Left	ø22 x 523.2 mm
		Right	ø22 x 427.1 mm
	Optional transmission	Left	
		Right	
Sip yoke	Type		-
	Number of teeth		-
	Spline o.d.		-
Universal joints	Make and mfg. no.	Inner	Toyota Motor Corporation, 43403-16010
		Outer	Toyota Motor Corporation, 43407-16010
	Number used		4
	Type, size, plunge	Inner	Tripot, plunging
		Outer	Tripot, fixed
	Attach (u-bolts, clamps, etc.)		Snap ring
	Bearing	Type (plain, anti-friction)	-
Lubrication (fitting, grease)		-	
Drive taken through (torque tube, arms or springs)		Strut bar	
Torque taken through (torque tube, arms or springs)		Engine mounting system	

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued _____ Revised (•) _____

Body Type And/Or
Engine Displacement

All models

Suspension - General

Car leveling	Std., opt., n.a.	N.A.
	Type (air, hyd., etc.)	-
	Manual/auto. controlled	-
Provision for brake dip control		-
Provision for accel. squat control		-
Provisions for car jacking		-
Shock absorber (front & rear)	Type	Twin tube
	Make	Fr: Toyota Rr: Kayaba or Tokiko
	Piston diameter	Fr: $\phi 30$ mm Rr: $\phi 25$ mm
	Rod diameter	

Suspension - Front

Type and description		Macpherson struts	
Drive and torque taken through			
Travel	Full bounce	80 mm	
	Full rebound	80 mm	
Spring	Type (coil, leaf, other) & material	Coil	
	Insulators (type & material)	SUP 7 (JIS)	
	Size (coil design height & i.d., bar length x dia.)		
	Spring rate (N/mm (lb./in.))	1.60 N/mm (3 door, 5 door LB)	1.70 N/mm (Wagon)
	Rate at wheel (N/mm (lb./in.))	1.60 N/mm (3 door, 5 door LB)	1.70 N/mm (Wagon)
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	SUP 6 or SUP 9, $\phi 20$ mm (Sedan), $\phi 21$ mm (Wagon)	

Suspension - Rear

Type and description		Macherson struts, Trailing link (AL25)	
Drive and torque taken through		4 links + coil spring (AL25)	
Travel	Full bounce	90 mm	
	Full rebound	100 mm	
Spring	Type (coil, leaf, other) & material	Coil, SUP 7	
	Size (length x width, coil design height & i.d., bar length & dia.)		
	Spring rate (N/mm (lb./in.))	1.50 N/mm	
	Rate at wheel (N/mm (lb./in.))	1.50 N/mm	
	Insulators (type & material)	Rubber	
	If leaf	No. of leaves	-
		Shackle (comp. or tens.)	-
Stabilizer	Type (link, linkless, frameless)	Link (AL25)	
	Material & bar diameter		
Track bar (type)			

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued _____ Revised (or) _____

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)	Drum, Std.	
Self-adjusting (std., opt., n.a.)			Std.	
Special valving	Type (proportion, delay, metering, other)		P valve	
Power brake (std., opt., n.a.)			Std.	
Booster type (remote, integral, vac., hyd., etc.)			Direct, vacuum	
Vacuum source (line, pump, etc.)			N.A.	
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.	
Effective area (cm ² /in. ²)*		(F/R)	176 cm ² / 204 cm ² , 232 cm ² (Wagon)	
Gross lining area (cm ² /in. ²)**(F/R)			176 cm ² / 204 cm ² , 232 cm ² (Wagon)	
Swept area (cm ² /in. ²)***(F/R)			1127 cm ² / 339 cm ² , 377 cm ² (Wagon)	
Rotor	Outerworking diameter	F/R	243 mm / N.A.	
	Inner working diameter	F/R	147 mm / N.A.	
	Thickness	F/R	11.0 mm / N.A.	
	Material & type (vented/solid)	F/R	Cast iron, solid / N.A.	
Drum	Diameter & width	F/R	N.A. / 180.0 mm, 200.0 mm (Wagon)	
	Type and material	F/R	Cast iron	
Wheel cylinder bore		F/R	48.10 mm / 17.46 mm, 19.05 mm (Wagon)	
Master cylinder	Bore/stroke	F/R	Bore: 20.64 mm / 20.64 mm Stroke: 14.00 mm / 14.00 mm	
Pedal arc ratio			4.26	
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))			9512 kPa, 10846 kPa (Wagon)	
Lining clearance		F/R	Self adjusting / self adjusting	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Bonded
		Rivet size		-
		Manufacturer		Bendix Nishinbo
		Lining code*****		-
		Material		Resin molded
		****	Primary or out-board	103 x 43 x 10 mm
		Size	Secondary or in-board	103 x 43 x 10 mm
		Shoe thickness (no lining)		5.0 mm
	Rear wheel	Bonded or riveted (rivets/seg.)		Bonded
		Manufacturer		Nishinbo
		Lining Code*****		-
		Material		Resin molded
		****	Primary or out-board	173 x 30 x 4 mm, 192 x 30 x 4 mm (Wagon)
		Size	Secondary or in-board	173 x 30 x 4 mm, 192 x 30 x 4 mm (Wagon)
		Shoe thickness (no lining)		1.6 mm, 2.0 mm (AL25)

*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 TERCEL
Model Year 1986 Issued Revised (•)

Body Type And/Or
Engine Displacement

Sedan STD	Sedan DLX FWD Wagon DLX	4WD Wagon DLX	4WD Wagon SR5
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Tires And Wheels (Standard)

Tires	Size (load range, ply)	145 SR13	155 SR13	175/70 SR13
	Type (bias, radial, etc.)	Radial		
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi)) 28, 32 (4 M/T) psi	26 psi	28 psi
		Rear (kPa (psi)) 28, 32 (4 M/T) psi	26 psi	28 psi
	Rev./mile—at 70 km/h (45 mph)	933	913	909
Wheels	Type & material	Steel		
	Rim (size & flange type)	4 1/2-Jx13		5-Jx13
	Wheel offset	45 mm		
	Attachment	Type (bolt or stud)	Nut	
		Circle diameter	100 mm	
Spare		Number & size	4-M12 x 1.5	
	Tire and wheel (same, if other describe)	Other T115/70D14 4T x 14.45	Same	
	Storage position & location (describe)	The luggage room floor		

Tires And Wheels (Optional)

Size (load range, ply)	155 SR13	-	175/70 SR13	175/70 SR13
Type (bias, radial, etc.)	Radial	-	Radial	Radial
Wheel (type & material)	Steel	-	Steel	Aluminum alloy
Rim (size, flange type and offset)	4 1/2-Jx13	-	5-Jx13	5-Jx13
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	Manual	
Location of control	On front tunnel	
Operates on	RR service brake	
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 TERCEL
Model Year 1986 Issued Revised (●)

Body Type And/Or
Engine Displacement

Sedan STD	Sedan DLX Wagon
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Steering

Manual (std., opt., n.a.)			Std.		
Power (std., opt., n.a.)			N.A.		
			Opt.		
Adjustable steering wheel (tilt, swing, other)	Type and description		-		
	(Std., opt., n.a.)		N.A.		
			Opt. (Sedan DLX), Std. (Wagon)		
Wheel diameter (W9) SAE J1100	Manual		380 mm		
	Power		-		
			380 mm		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.5 m		
		Curb to curb (l. & r.)	9.7 m		
	Inside rear	Wall to wall (l. & r.)	5.5 m		
		Curb to curb (l. & r.)	5.5 m (Sedan DLX), 5.7 m (Wagon)		
Scrib Radius*					
Manual	Gear	Type	Rack & pinion		
		Make	Toyota		
		Ratios	Gear	∞	
		Overall	19.96		
	No. wheel turns (stop to stop)		3.73		
Power	Type (coaxial, linkage, etc.)		-		
	Make		-		
	Gear	Type	-		
		Ratios	Gear	-	
			Overall	-	
			Pump (drive)		-
	No. wheel turns (stop to stop)		-		
Linkage	Type		Ackerman		
	Location (front or rear of wheels, other)		Front of wheels		
	Tie rods (one or two)		2		
Steering axis	Inclination at camber (deg.)		12°30'(AL21L), 12°35'(AL21LG), 11°50'(AL25LG)		
	Bearings (type)	Upper	Ball bearing		
		Lower	Ball joint		
		Thrust	-		
Steering spindle & joint type			Ball joint		
Wheel spindle	Diameter	Inner bearing	35.00 mm		
		Outer bearing	72.00 mm		
	Thread (size)		M19 x 1.5 mm		
	Bearing (type)		Double angular ball 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 TERCEL
Model Year 1986 Issued _____ Revised (e) _____

Body Type And/Or
Engine Displacement

Sedan STD	Sedan DLX	FWD Wagon	FWD Wagon w/ power steering	4WD Wagon
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Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	1°10'±30'	2°40'±30'	0°45'±30'	2°15'±30'	2°25'±30'
		Camber (deg.)	0°05'±30'		0°±30'		0°35'±30'
		Toe-in (outside track-mm (in.))	-1±1 mm				
	Service reset*	Caster	1°10'±30'	2°40'±30'	0°45'±30'	2°15'±30'	2°25'±30'
		Camber	0°05'±30'		0°±30'		0°35'±30'
		Toe-in	-1±1 mm				
	Periodic M.V. in- spection	Caster	1°10'±30'	2°40'±30'	0°45'±30'	2°15'±30'	2°25'±30'
		Camber	0°05'±30'		0°±30'		0°35'±30'
		Toe-in	-1±1 mm				
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-0°05'±30'				0
		Toe-in (outside track-mm (in.))	0±1 mm				0
	Service reset*	Camber	-0°05'±30'				0
		Toe-in	0±1 mm				0
	Periodic M.V. in- spection	Camber	-0°05'±30'				0
		Toe-in	0±1 mm				0

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

Electrical - Instruments and Equipment

Speed- ometer	Type	Needle, round
	Tire odometer (std., opt., n.a.)	Std.
EGR maintenance indicator		N.A.
Charge indicator	Type	Electrical
	Warning device	Lamp
Temperature indicator	Type	Electrical gauge
	Warning device	N.A.
Oil pressure indicator	Type	Electrical
	Warning device	Lamp
Fuel indicator	Type	Electrical gauge
	Warning device	Std. N.A. (3 door & 5 door STD)
Wind- shield wiper	Type (standard)	- Motor 3-speed
	Type (optional)	-
	Blade length	Dr: 450 mm, Pa: 450 mm
	Swept area (cm ² (in. ²))	5595 cm ²
Wind- shield washer	Type (standard)	Motor
	Type (optional)	-
	Fluid level indicator	-
Horn	Type	Electrical disk
	Number used	1
Other		

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued Revised (e)

Engine Description/Carb.
Engine Code

3A-C AL21L-ZGKRCA	3A-C Others
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Electrical - Supply System

Battery	Make *	G, Y (opt. G, Y, K, F)	G, Y (opt. G, Y; G, Y, K, F)
	Model, std., (opt.)	50D20R(opt. 32C24R[N40])	50D20R(opt. 55D23R, 32C24R[N40])
	Voltage	12V 54 plates (12V 54 plates)	12V 54 plates (12V 66 plates 12V
	Amps at 0°F cold crank	270A (200A)	270A (310A, 200A) plate
	Minutes-reserve capacity	75 minutes (50 minutes)	75 minutes (90 minutes, 50 minute
	Amps/hrs. - 20 hr. rate	50 (40)	50 (60, 40)
	Location	Insert engine compartment left front	
Generator or alternator	Type and rating	AC 50A	
	Ratio (alt. crank/rev.)	2.36:1	
	Optional (type & rating)	AC 60A	
Regulator	Type	Contact (50A), IC (60A)	

* G:Nihondenchi Y:Yuasa denchi K:Shinkobe denki F:Koga denchi

Electrical - Starting System

Start. motor	Current drain at 0°F	-
Motor drive	Engagement type	Shift type
	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	3A-C (IIA)
	Current	Engine stopped - A 0
		Engine idling - A 0.9
Spark plug	Make	Nippondenso Co., Ltd., NGK spark plug Co., Ltd.
	Model	FED: (a) CAL: (b)
	Thread (mm)	M14 x 19.0
	Tightening torque (N·m (lb. ft))	1.77±0.29 N·m
	Gap	1.1 mm
	Number per cylinder	
Distributor	Make	Nippondenso Co., Ltd.
	Model	3A-C (IIA)

(a): W16EXR-U11, W14EXR-U11, BPR5EY11, BPR4EY11
(b): W16EXR-U11, BPR5EY11

Electrical - Suppression

Locations & type

Resistive cord, resistive spark plug

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line TERCEL
Model Year 1986 Issued _____ Revised (e) _____

Body Type

All models

Body

Structure

Bumper system
Front - rear

Bar material & mass

Front: Urethane 4.9 kg, 5.1 kg (Wagon 4WD)
Rear : Urethane 4.4 kg, 4.7 kg (Wagon)

Reinforcement material & mass

Front: Steel 7.8 kg, 7.9 kg (Wagon 4WD)
Rear : Steel 9.5 kg, 9.0 kg (Wagon)

Anti-corrosion treatment

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)

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.)

N.A.

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

Panel frame + foampad

Rear

Wire frame + foampad, spring + foampad (4WD Wagon)

3rd seat

Seat back type
(e.g., 60/40, bucket, bench, wire, foam etc.)

Front

Spring + foampad

Rear

Panel frame + foampad

3rd seat

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

Car Line TERCEL
 Model Year 1986 Issued _____ Revised (•) _____

Body Type

3 door Sedan

5 door Sedan

Wagon

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	3-point & 2-point
	Location	Fr: 3-point, 2-seat, Rr: 2-point, 3-seat
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)

Monocoque

Glass	SAE Ref. No.			
Windshield glass exposed surface area (cm ² (in. ²))	S1	8,002 cm ²		
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	11,882 cm ²	11,351 cm ²	14,237 cm ²
Backlight glass exposed surface area (cm ² (in. ²))	S3	6,713 cm ²		4,209 cm ²
Total glass exposed surface area (cm ² (in. ²))	S4	26,597 cm ²	26,066 cm ²	26,448 cm ²
Windshield glass (type)		Laminated glass		
Side glass (type)		Tempered glass		
Backlight glass (type)		Tempered glass		

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

Car Line TERCEL
 Model Year 1986 Issued _____ Revised (●) _____

Body Type

All models

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

Air conditioning (manual, auto, temp control)		Opt. N.A. (AL21L-ZGKRCA)
Clock (digital, analog)		Opt. N.A. (Sedan STD) Std. (4WD Wagon SR5)
Compass / thermometer		
Console (floor, overhead)		
Defroster, elec. backlight		
Electronic	Diagnostic warning (integrated, individual)	
	Instrument cluster (list instruments)	
	Keyless entry	
	Tripmeter (avg. spd., fuel)	
	Voice alert (list items)	
	Other	
Fuel door lock (remote, key, electric)		
Lamps	Auto head on / off delay, dimming	
	Cornering	N.A.
	Courtesy (map, reading)	N.A.
	Door lock, ignition	N.A.
	Engine compartment	
	Fog	
	Glove compartment	N.A.
	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)	N.A.
	Side windows	N.A.
	Vent windows	N.A.
	Rear window	N.A.
Radio systems	Antenna (location, whip, windshield, power)	Power: N.A.
	AM, FM, stereo, tape: CB	*1 AM, *2 AM/FM multi 2SP *3 AM/FM multi 4SP *AM/FM multi
	Speaker (number, location) Premium sound	N.A. Opt. auto reverse (4WD Wagon) w/cassette 4S
Roof open air/fixed (flip-up, sliding, "T")		
Speed control device		N.A. (STD), Opt.
Speed warning device (light, buzzer, etc.)		N.A.
Tachometer (rpm)		
Theft protection-type		

*1:All *2*4:3 door & 5 door DLX, wagon *3:4WD Wagon

MVMA Specifications Form

Passenger Car

Car Line TERCEL
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.	3 door Sedan STD	3 door Sedan DLX 5 door Sedan	FWD Wagon	4WD Wagon
Width					
Tread (front)	W101	1385			
Thread (rear)	W102	1370			1350
Vehicle width	W103	1615			
Body width at Sq RP (front)	W117	1600			
Vehicle width (front doors open)	W120	3630	3630, 3270 (5 door)	3270	
Vehicle width (rear doors open)	W121	-	3125 (5 door)		
Front fender overall width	W106				
Rear fender overall width	W107				
Turn-in angle (deg.)	W122	21.5°			

Length

Wheelbase	L101	2430		
Vehicle length	L103	4030	4310	
Overhang (front)	L104	800		
Overhang (rear)	L105	800	1080	
Upper structure length	L123	2630	2925	
Rear wheel C-L "X" coordinate	L127	2430		
Cowl point "X" coordinate	L125	340		
Front end length at centerline	L126			
Rear end length at centerline	L129			

Height*

Passenger distribution (front/rear)	P01.2.3	2/1		
Trunk/cargo load		0	34	40
Vehicle height	H101	1350	1355	1425
Cowl point to ground	H114	900	905	930
Deck point to ground	H138	915	920	870
Rocker panel-front to ground	H112	190	195	220
Bottom of door closed-front to grd.	H133	265	270	295
Rocker panel-rear to ground	H111	190	195	220
Bottom of door closed-rear to grd.	H135	265	270	295
Windshield slope angle	H122	55.5°		
Backlight slope angle	H121	56°	28.5°	

Ground Clearance*

Front bumper to ground	H102	260	265	290
Rear bumper to ground	H104	325	330	315
Bumper to ground (front at curb mass (wt.))	H103	275	280	305
Bumper to ground (rear at curb mass (wt.))	H105	370	375	355
Angle of approach (degrees)	H106	27°	27.5°	30°
Angle of departure (degrees)	H107	23.5°	24°	18.5°
Ramp breakover angle (degrees)	H147	16°		17°
Axle differential to ground (front / rear)	H153	Rr: 160		170
Min. running ground clearance	H156	105	110	135
Location of min. run. grd. clear.		Front floor side member		CCRO

* 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 See Key Sheets for definitions

Car Line

TERCEL

Model Year

1986

Issued

Revised (•)

Body Type

SAE Ref. No.	3 door Sedan STD	3 door Sedan DLX 5 door Sedan	FWD Wagon	4WD Wagon
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Front Compartment

Sg RP front, "X" coordinate	L31	1330		
Effective head room	H61	969, 935(Opt. sun roof)	1020, 988(Opt. sun roof)	
Max. eff. leg room (accelerator)	L34	1077		
Sg RP to heel point	H30	257		
Sg RP to heel point	L53			
Back angle	L40	25°		
Hip angle	L42			
Knee angle	L44			
Foot angle	L46			
Design H-point front travel	L17	194		
Normal driving & riding seat track trvl.	L23			
Shoulder room	W3	1340		
Hip room	W5	1288	1288, 1244(5 door)	1244
Upper body opening to ground mm	H50	1241	1246	1271
Steering wheel maximum diameter	W9			
Steering wheel angle	H18	26°		
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	695		745
Effective head room	H63	943, 913(Opt. sun roof)	1012, 993(Opt. sun roof)	1000, 978(Opt. sun roof)
Min. effective leg room	L51	808		860
Sg RP (second to heel)	H31	312		325
Knee clearance	L48	-41		-19
Compartment room	L3	595		654
Shoulder room	W4	1319	1319, 1335(5 door)	1335
Hip room	W6	1155		1336
Upper body opening to ground	H51	1243	1248	1251
Back angle	L41			1276
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 mm	H195	605	610	525
				550

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 TERCEL
Model Year 1986 Issued _____ Revised (e) _____

Body Type

SAE Ref. No.	3 door Sedan	5 door Sedan	FWD Wagon	4WD Wagon
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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	-	1663
Cargo length (closed second)	L203	-	1038
Cargo length at belt (front)	L204	-	1488
Cargo length at belt (second)	L205	-	747
Cargo width (wheelhouse)	W201	-	950
Rear opening width at floor	W203	-	1120
Opening width at belt	W204	-	1088, 1048 (Opt. package)
Max. rear opening width above belt	W205	-	800
Cargo height	H201	-	909
Rear opening height	H202	-	826
Tailgate to ground height	H250	-	
Front seat back to load floor height	H197	-	437
Cargo volume index (m ³ /ft. ³)	V2	-	1.806
Hidden cargo volume (m ³ /ft. ³)	V4	-	0.906
Cargo volume, index-rear of 2-seat	V10	-	

Hatchback – Cargo Space

Cargo length at front seatback height	L208	1204	-
Cargo length at floor (front)	L209	1407	-
Cargo length at second seatback height	L210		-
Cargo length at floor (second)	L211		-
Front seatback to load floor height	H197	488	-
Second seatback to load floor height	H198		-
Cargo volume index (m ³ /ft. ³)	V3	0.840	0.851
Hidden cargo volume (m ³ /ft. ³)	V4	0.415	0.420
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 TERCEL
 Model Year 1986 Issued _____ Revised (e) _____

Body Type

3 door Sedan STD	3 door Sedan DLX, 5door Sedan STD 5 door Sedan DLX, Wagon DLX	4WD Wagon
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Vehicle Fiducial Marks

Fiducial Mark Number	Define Coordinate Location		
Front	Outside installation centering hole (both side) of seat track on front floor cross member		
Rear	Rear seat belt front-side centering hole on rear floor		
Front	W21	W5 + 70	
	L54	L19 + 86	
	H81	H10 + 97	
	H161	315	320 350
	H163	285	290 315
Rear	W22	W5 + 3	
	L55	L30 + 35	
	H82	H11 + 23	
	H162	350	355 365
	H164	315	320 310

* 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 TERCEL
 Model Year 1986 Issued _____ Revised (e) _____

Body Type

3 door Sedan STD	3 door Sedan DLX 5 door Sedan	FWD Wagon	4WD Wagon
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Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	645	650	670
		Lowest			
	Taillamp (SAE - H128)	Highest**	785	790	845
		Lowest			870
	Sidemarkers	Front	655	660	670
		Rear	780	785	740
Distance from C.L. of car to center of bulb	Headlamp	Inside	550		583
		Outside**			
	Taillamp	Inside	610	669.5	
		Outside**			
	Directional	Front	707		716
		Rear	752	759.5	
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.

METRIC (U.S. Customary)

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

Vehicle Mass (weight)

[illegible]

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

METRIC (U.S. Customary)

Model Year

1986

Issued

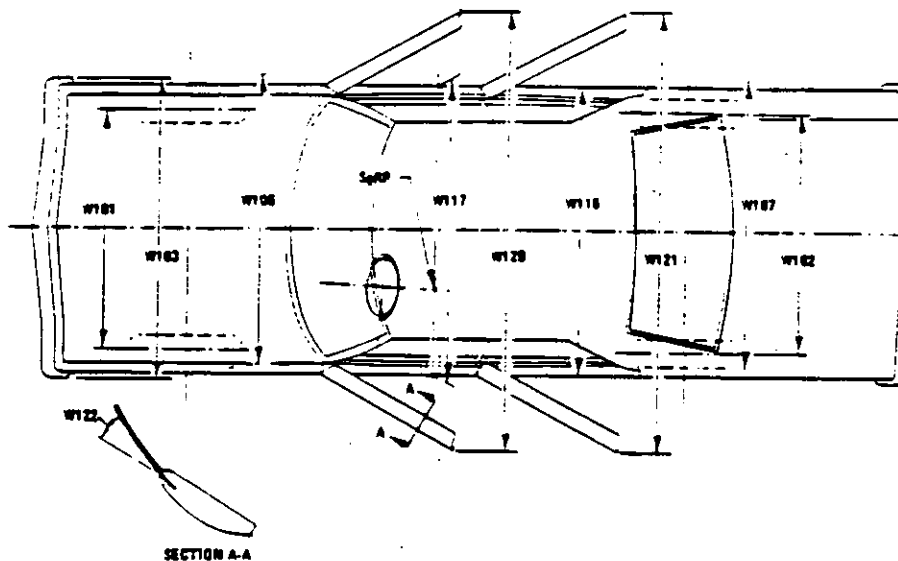
Revised (01/10)

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

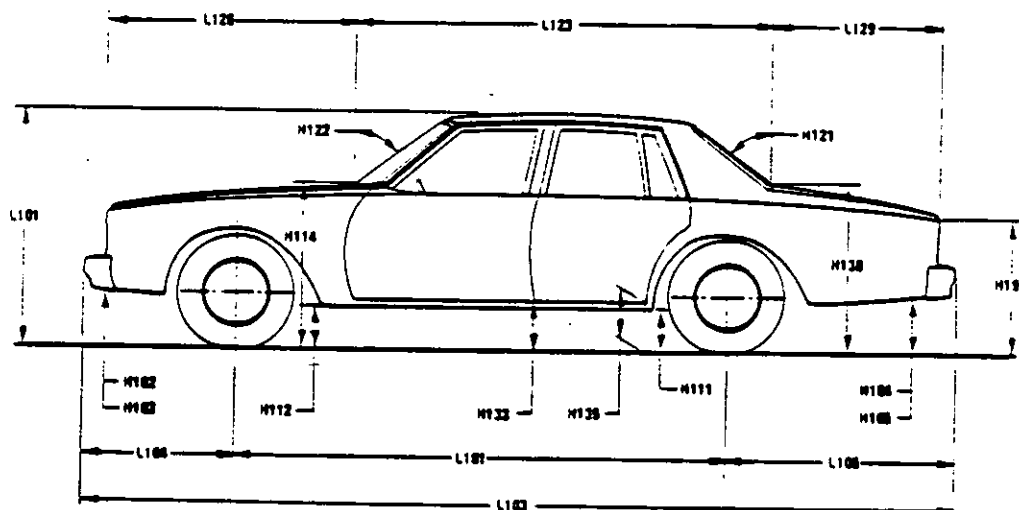
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

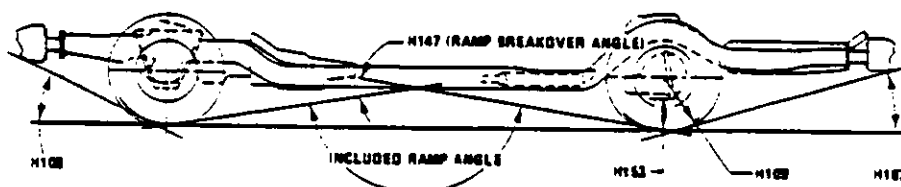
Exterior Width



Exterior Length & Height

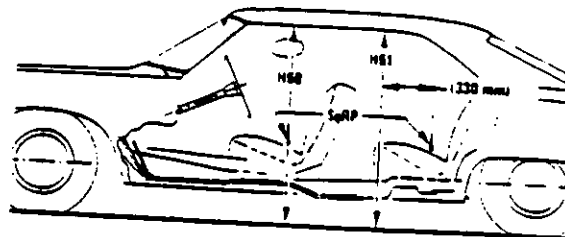
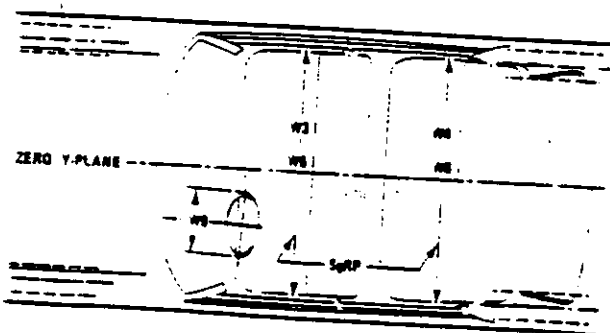
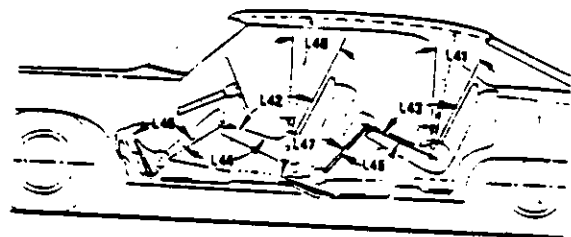
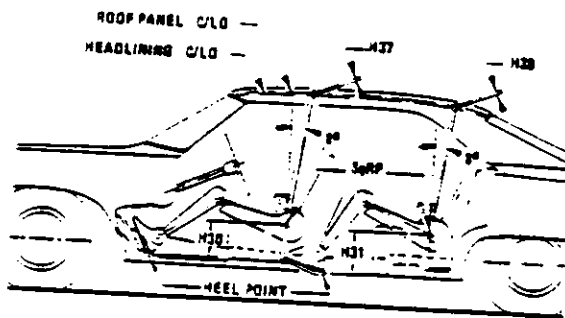
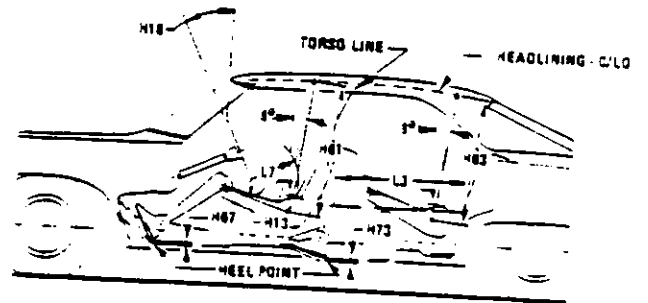
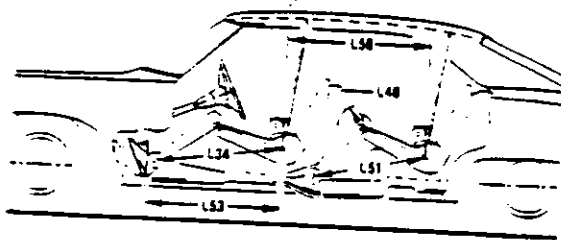


Exterior Ground Clearance



MVMA Specifications Form
Passenger Car
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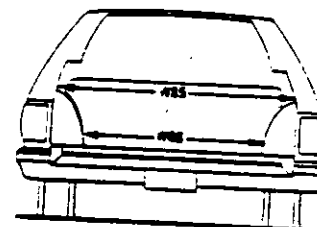
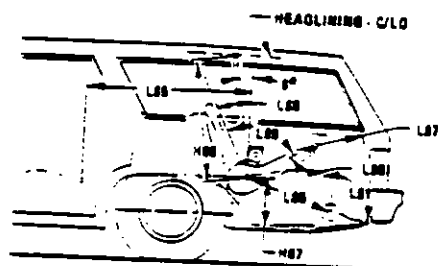
Interior Car And Body Dimensions – Key Sheet



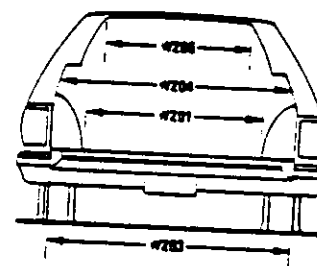
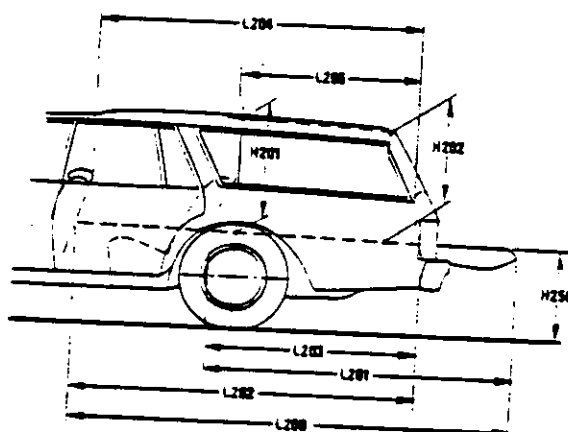
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

Third Seat



Cargo Space



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 headlamps 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**
- L34** "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.) below and 76 mm (3.0 in.) above 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 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 mov'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 undeepressed floor covering to the rearmost point on the undeepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mov's at the zero "Y" plane.
- L204** CARGO LENGTH AT BELT-FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205** CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201** CARGO WIDTH-WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhouseings 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 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).

- 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 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:

$$\frac{L208 + L209}{2} \times W4 \times H197 = \text{ft}^3$$
 Measured in mm:

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

$$\frac{L210 + L211}{2} \times W4 \times H198 = \text{ft}^3$$
 Measured in mm:

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

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Index

Subject	Page No.
Aerodynamics	22
Alternator	16
Automatic Transmission/Transaxle	8, 9
Axis, Steering	14
Axle, Drive, Front, Rear	2, 9, 10
Axle Shafts	10
Battery	16
Body and Miscellaneous Information	17
Brakes—Parking, Service	12, 13
Camber	15
Camshaft	3
Capacities	3
Cooling System	5
Fuel Tank	6
Lubricants	6
Engine Crankcase	4
Transmission/Transaxle	8, 9
Rear Axle	10
Car Models	1
Car and Body Dimensions	
Width	20
Length	20
Height	20
Ground Clearance	20
Front Compartment	21
Rear Compartment	21
Luggage Compartment	21
Station Wagon - Third Seat	22
Station Wagon - Cargo Space	22
Hatchback - Cargo Space	22
Carburetor	2, 6
Caster	15
Choke, Automatic	8
Clutch - Pedal Operated	8
Coil, Ignition	16
Connecting Rods	4
Convenience Equipment	19
Cooling System	5
Crankshaft	4
Cylinders and Cylinder Head	3
Diesel Information	4
Dimension Definitions	
Key Sheet - Exterior	27, 30, 31
Key Sheet - Interior	28, 29, 31, 32, 33
Electrical System	15, 16
Emission Controls	7
Engine - General	
Bore, Stroke, Type	3
Compression Ratio	2
Displacement	2, 3
Firing Order, Cylinder Numbering	3
General Information, Power & Torque	2
Intake System	4
Power Teams	2
Exhaust System	7
Equipment Availability, Convenience	19
Fan, Cooling	5
Fiducial Marks	23
Filters - Engine Oil, Fuel System	4
Frame	17
Front Suspension	11
Front Wheel Drive Unit	10
Fuel System	6
Fuel Injection	6
Fuel Tank	6
Generator and Regulator	16
Glass	18
Headroom - Body	21, 22
Height - Car and Body	20
Horns	15
Horsepower - Brake	2
Ignition System	16
Inflation - Tires	13

Subject	Page No.
Interior Volumes	21
Instruments	15
Lamps and Headlamp Shape	24
Luggage	21, 22
Lengths - Car and Body	20
Leveling, Suspension	11
Lifters, Valve	4
Linings - Clutch, Brake	3, 12
Lubrication - Engine Transmission/Transaxle	4, 3, 9
Luggage Compartment	21
Mass	25, 26
Models	1
Motor Starting	16
Muffler	7
Passenger Capacity	1
Passenger Mass Distribution	25
Pistons	3
Power Brakes	12
Power, Engine	2
Power Steering	14
Power Teams	2
Propeller Shaft, Universal Joints	10
Pumps - Fuel	6
Water	5
Radiator - Cap, Hoses, Core	5
Ratios - Axle, Transaxle	2, 9
Compression	2
Steering	14
Transmission/Transaxle	2, 3, 9
Rear Axle	2, 9, 10
Regulator - Generator	16
Restraint System	18
Rims	13
Rods - Connecting	4
Scrub Radius	14
Seats	17
Shock Absorbers, Front & Rear	11
Spark Plugs	16
Speedometer	15
Springs - Front & Rear Suspension	11
Stabilizer (Sway Bar) - Front & Rear	11
Starting System	16
Steering	14
Suppression - Ignition, Radio	16
Suspension - Front & Rear	11
Tail Pipe	7
Theft Protection	10
Thermostat, Cooling	5
Tires	13
Toe-In	15
Torque Converter	9
Torque - Engine	2, 3, 9
Transaxle	9
Transmission - Types	2, 3, 9
Transmission - Automatic	2, 3, 9
Transmission - Manual	2, 3, 9
Transmission - Ratios	2, 3
Tread	20
Trunk Cargo Load	21
Trunk Luggage Capacity	21
Turning Diameter	14
Unitized Construction	17
Universal Joints, Propeller Shaft	10
Valve System	4
Voltage Regulator	16
Water Pump	5
Weights	25, 26
Wheel Alignment	15
Wheelbase	20
Wheels & Tires	13
Wheel Spindle	14
Widths - Car and Body	20
Windshield	18
Windshield Wiper and Washer	15