

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1986

Manufacturer	VOLVO		
Mailing Address	VOLVO PERSONVAGNAR AB S- 405 08 GÖTEBORG SWEDEN		
	Car Line	740-760	
	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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mvma
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.

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METRIC (U.S. Customary)

Car Line 740 +760
Model Year 1986 Issued _____ Revised (●) _____

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)
<u>4-d sedan</u>				
B 28F		760 GLE		
D 24T		740 GLE		
B 230 FT		740 + 760 TURBO		
B 230 F		740 GL + GLE		
<u>5-d station wagon</u>				
D 24 T		740 GLE		
B 230 FT		740 + 760 TURBO		
B 230 F		740 GL + GLE		

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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)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N - m (lb. ft.)			
D24T	2,383		23.0	79/ 4880	205/ 2400			Man: 3.54 Aut: 3.91
B28F	2,849	FI	8.8	100/ 5500	215/ 2750			Aut: 3,54
B230F	2,316	FI	9.8	85/ 5400	185/ 2750			Man 3.31 Aut: 3.91
B230FT	2,316	FI	8.7	119/ 5300	253/ 2900			Man: 3.54 Aut: 3.73

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Car Line 740/760 Turbo
Model Year 1986 Issued _____ Revised (●) _____

Engine Description/Carb.
Engine Code

B230FT

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Inline, front longitudinal, sohc	
No. of cylinders	4	
Bore	96	
Stroke	80	
Bore spacing (c / l to c / l)	105/108/105	
Cylinder block material	Cast iron	
Cylinder block deck height	231.5	
Deck clearance (minimum) (above or below block)	0.1 below block	
Cylinder head material	Aluminium alloy	
Cylinder head volume (cm ³)	52.2	
Head gasket thickness (compressed)	1.2 mm	
Minimum combustion chamber total volume (cm ³)	58	
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4
	R. Bank	
Firing order	1-3-4-2	
Recommended fuel (leaded, unleaded, diesel)	Inleaded	
Fuel antiknock index $\frac{(R + M)}{2}$	-	
Total dressed engine mass (wt) dry**	-	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminium alloy 540g
--	----------------------

Engine - Camshaft

Location	OHV	
Material & mass kg (weight, lbs.)	Chilled cast iron	
Drive type	Chain / belt	belt
	Width / pitch	19/9.525

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

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

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Engine – Valve System

Hydraulic lifters (std., opt., NA)		No
Valves	Number intake / exhaust	4/4
	Head O.D. intake / exhaust	44/35

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]	Forged
---------------------------------------	--------

Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]	Cast
End thrust taken by bearing (no.)	3
Number of main bearings	5

Engine – Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	250-600 kPa	2000 r/min	warm oil
Type oil intake (floating, stationary)	Stationary		
Oil filter system (full flow, part, other)	Full flow		
Capacity of c/case, less filter-refill-L (qt.)	3.95 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 injection pump	Manufacturer	
	Type	
Fuel injection pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler-type (oil to engine coolant; oil to ambient air)		
Oil filter		

Engine – Intake System

Turbo charger - manufacturer	
Super charger - manufacturer	
Charge cooler	

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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		
Coolant fill location (rad., bottle)		Bottle
Radiator cap relief valve pressure [kPa (psi)]		150 kPa
Circulation thermostat	Type (choke, bypass)	
	Starts to open at °C (°F)	92 °C
Water pump	Type (centrifugal, other)	Radial
	GPM 1000 pump rpm	
	Number of pumps	1
	Drive (V-belt, other)	V-belt
	Bearing type	Ball
By-pass recirculation [type (inter., ext.)]		Int.
Cooling system capacity	With heater—L(qt.)	Man: 8.4 l Aut: 8.3 l
	With air cond.—L(qt.)	
	Opt. equipment [specify—L(qt.)]	
Water jackets full length of cyl. (yes, no)		
Water all around cylinder (yes, no)		
Radiator core	Describe (type, material, no. of rows)	Tube & Separator, Cu/Brass, 2 rows
	Std., A/C, HD	
	Width	450
	Height	400
	Thickness	1 1/2"
	Fins per inch	
Fan	Std., elec., opt.	Std
	Number of blades & type (flex, solid, material)	7
	Diameter & projected width	400 mm
	Ratio (fan to crankshaft rev.)	1:1.15
	Fan cutout type	Slip
	Drive [type (direct, remote)]	Direct
	RPM at idle (elec.)	
	Motor rating (wattage) (elec.)	
	Motor switch (type & location) (elec.)	
	Switch point (temp., pressure) (elec.)	
	Fan shroud (material)	PP

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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.		
Carburetor	Mfr.	
	Choke (type)	
	Idle spd. -rpm (spec. neutral or drive and propane if used)	Manual
		Automatic
Idle A/F mix.		
Fuel injection	Point of injection (no.)	Intake man
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure [kPa (psi)]	300 ± 6 kPa
Intake manifold heat control (exhaust or water thermostatic or fixed)		-
Air cleaner type	Standard	Paper
	Optional	-
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Between engine and tank
	Pressure range [kPa (psi)]	≤3.8 bar

Fuel Tank

Capacity (refill L (gallons))		60 l
Location (describe)		In front of and over rear axle
Attachment		Bolted M8
Material		plastic
Filler pipe	Location & material	left side aluminium
	Connection to tank	Rubber nose
Fuel line (material)		Bundypipe and PA 11
Fuel hose (material)		92050-6, 92041-7, 92441-6
Return line (material)		Bundypipe
Vapor line (material)		Bundypipe and PA 11
Extended range tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
	Selector switch or valve	
	Separate fill	

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B230FT

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		
	Air Injection	Pump or pulse	-
		Driven by	-
		Air distribution (head, manifold, etc.)	-
		Point of entry	-
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	-
		Exhaust source	-
		Point of exhaust injection (spacer, carburetor, manifold, other)	-
	Catalytic Converter	Type	T.W.C.
		Number of	1
		Location(s)	Under floor
		Volume (L (in ³))	2550 cm
Substrate type		Monolite	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		P.C.V closed
	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum
	Discharges (to intake manifold, other)		-
	Air inlet (breather cap, other)		-
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Ventilated to canister
		Carburetor	-
	Vapor storage provision		Carbon canister capacity 58 g/min
Electronic system	Closed loop (yes/no)		Yes
	Open loop (yes/no)		-

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler no. & type (reverse flow, straight thru, separate resonator)		1; 1 straight through, 1 reverse flow
Resonator no. & type		-
Exhaust pipe	Branch o.d., wall thickness	-
	Main o.d., wall thickness	D 60 x 2 mm
	Material	Stainless steel
Inter-mediate pipe	o.d. & wall thickness	D 60 x 1.5 mm
	Material	Aluminized steel
Tail pipe	o.d. & wall thickness	D57 x 1.5 mm
	Material	Enamelled steel

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Engine Description/Carb.
Engine Code

B 230 FT

Transmissions/Transaxle

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

Manual Transmission/Transaxle

Number of forward speeds		4 + overdrive*	
Transmission ratios	In first	4.03	
	In second	2.16	
	In third	1.37	
	In fourth	1.00	
	In fifth	-	
	In overdrive	0.79	
	In reverse	3.68	
Synchronous meshing (specify gears)		1, 2, 3, 4	
Shift lever location		Floor	
Lubricant	Capacity [L (pt.)]		2.3
	Type recommended		Automatic transmission fluid type Ford M2C33F opt Ford M2C33G
	SAE viscosity number	Summer	
		Winter	
		Extreme cold	

Clutch (Manual Transmission)

Make, type, engagement (describe)		FICHTEL & SACHS
ypb pressure plate springs		Diaphragm spring
Total spring load [N (lb.)]		5800
No. of clutch driven discs		One
Clutch facing	Material	Thermoid TH 505 alt. Raybestos 8305
	Manufacturer	Fichtel & Sachs
	Part number	1377327
	Rivets/plate	16
	Rivet size	11
	Outside & inside dia.	228/150
	Total eff. area [cm ² (in. ²)]	438
	Thickness	7.25
Engagement cushion method		Flat wave springs
Release bearing	Type & method of lubrication	Ball bearing, permanently lubricated
Torsional damping	Method: springs, friction material	Coil springs and friction washers

*) The separate overdrive unit mounted on the transmission housing
Manufacturer: Laycock Engineering Ltd, Sheffield, England
Ratio: 0.787
Overdrive is engaged by a switch built into the shift lever knob.

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Automatic Transmission/Transaxle

Trade name		Aisin warner	
Type and special features (describe)		AW 71	
Selector	Location	Floor	
	Ltr./No. designation		
Gear ratios	R	2.21	
	D	2.45 1.45 1.0 0.69	
	L ₃	-	
	L ₂	2.45 1.45	
	L ₁	2.45	
Max. upshift speed - drive range [km/h (mph)]		Axel ratio 3.73 105 to tird gear, no upshift to 4th gear	
Max. kickdown speed - drive range [km/h (mph)]		Axel ratio 3.73 99 to second gear, always downshift from 4th to	
Min. overdrive speed [km/h (mph)]		3th	
Torque converter	Number of elements	3	
	Max. ratio at stall	1.81	
	Type of cooling (air, liquid)	liquid	
	Nominal diameter	248	
Lubricant	Capacity (refill L (pt.))	Total 7.4 refill 3.3 (oil pan removed)	
	Type Recommended	ATF type DEXRON II D	
Oil cooler (std., opt., NA, internal, external, air, liquid)		Stol. liquid	

Axle or Front Wheel Drive Unit

Type (front, rear)		Rear	
Description		Live axle	
Limited slip differential (type)		-	
Drive pinion offset		38.1	
Drive pinion (type)		Hypoid	
No. of differential pinions		2	
Pinion / differential adjustment (shim, other)		Washers	
Pinion / differential bearing adjustment (shim, other)		- " -	
Driving wheel bearing (type)		Tapered roller bearing / unit bearing	
Lubricant	Capacity (L (pt.))	1.6	
	Type recommended	GL 5	
	SAE vis- cosity number	Summer	90
		Winter	90
Extreme cold		80	

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

Axle ratio (or overall top gear ratio)		3.54	3.73
No. of teeth	Pinion	11	11
	Ring gear or gear	39	41
Ring gear o.d.		198	198
Transaxle	Transfer gear ratio		
	Final drive ratio		

Manuell

Automatic

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Engine Description/Carb.
Engine Code

B230FT M46 (Man)

Propeller Shaft – Conventional Drive

Type (straight tube, tube-in-tube,
internal-external damper, etc.)

Rubber joint

Outer diam. x length* x wall thick- ness	Manual 3-speed trans.		
	Manual 4-speed trans.		
	Manual 5-speed trans.		
	Overdrive		Front 50.8 x 499.0 x 2.41 Rear 50.8 x 864.2 x 2.41
	Automatic transmission		
Inter- mediate bearing	Type (plain, anti-friction)		Anti friction
	Lubrication (fitting, prepack)		Prepack
Slip yoke	Type		Sliding splines
	Number of teeth		16
	Spline o.d.		Ø 34.9
Universal joints	Make and mfg. no.	Front	BRD rubber joint
		Rear	BRD 03 - 03
	Number used		2
	Type (ball and trunnion, cross)		Cross
	Rear attach (u-bolt, clamp, etc.)		Fixed flange
	Bearing	Type (plain, anti-friction)	anti friction
Lubrication (fitting, prepack)		Prepack	
Drive taken through (torque tube, arms or springs)			Arms
Torque taken through (torque tube, arms or springs)			Arms

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

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in METRIC (U.S. Customary)

Car Line 740/760 Turbo
Model Year 1986 Issued _____ Revised (e) _____

Engine Description/Carb.
Engine Code

B230FT AW71 (Aut)

Propeller Shaft - Conventional Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight tube	
Outer diam. x length* x wall thickness	Manual 3-speed trans.		
	Manual 4-speed trans.		
	Manual 5-speed trans.		
	Overdrive		
	Automatic transmission		Front 50.8 x 524.4 x 2.41 Rear 50.8 x 864.2 x 2.41
Inter-mediate bearing	Type (plain, anti-friction)		Anti friction
	Lubrication (fitting, prepack)		Prepack
Slip yoke	Type		Sliding splines
	Number of teeth		16
	Spine o.d.		Ø 34.9
Universal joints	Make and mfg. no.	Front	BRD 03
		Rear	BRD 03 - 03
	Number used		3
	Type (ball and trunnion, cross)		Cross
	Rear attach (u-bolt, clamp, etc.)		Fixed flange
	Bearing	Type (plain, anti-friction)	Anti friction
		Lubrication (fitting, prepack)	Prepack
Drive taken through (torque tube, arms or springs)		Arms	
Torque taken through (torque tube, arms or springs)		Arms	

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

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 Model Year 1986 Issued _____ Revised (●) _____

Body Type And/Or
 Engine Displacement

B230FT M46 + AW71 4-Door

Suspension - General

Car leveling	Std. opt. n.a.	NA
	Type (air, hyd., etc.)	
	Manual auto. controlled	
Provision for brake dip control		No
Provision for accel. squat control		Yes
Provisions for car jacking		Two jacking points each side.
Shock absorber (front & rear)	Type	Front: Hydraulic, telescopic Rear: Hydraulic, telescopic
	Make	Boge, Monroe
	Piston diameter	Front: 32 (1.26) Rear: 25.4 (1.00) or 27 (1.06)
	Rod diameter	Front: 22 (0.87) Rear: 12.7 (0.50) or 11 (0.43)

Suspension - Front

Type and description		Mac Pherson strut
Drive and torque taken through		-
Travel	Full jounce	94 (3.7)
	Full rebound	94 (3.7)
Spring	Type (coil, leaf, other) & material	Coil, steel 2090-04
	Insulators (type & material)	Rubber
	Size (coil design height & i.d. bar length x dia.)	Design height: 205 (8.1) Innerdia: 138 (5.4) Bar length: 2900 (114) Bar dia: 13.7 (0.54)
	Spring rate [N mm (lb. in.)]	18.1 (103)
	Rate at wheel [N mm (lb. in.)]	22.1 (126)
	Rate at wheel [N mm (lb. in.)]	22.1 (126)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel 2090-03 21 (0.83)

Suspension - Rear

Type and description		Rigid axle. Support arm each side. Two torque rods near car centre line. Track rod.
Drive and torque taken through		Support arms and torque rods.
Travel	Full jounce	110 (4.3)
	Full rebound	112 (4.4)
Spring	Type (coil, leaf, other) & material	Coil, steel 2090-04
	Size (length x width, coil design height & i.d., bar length & dia.)	Design height: 260 (10.2) Innerdia: 98 (3.9) Bar length: 3070 (121) Bar dia: 11.3 (0.44)
	Spring rate [N mm (lb. in.)]	15.4 (88)
	Rate at wheel [N mm (lb. in.)]	24.4 (139)
	Insulators (type & material)	Rubber
	If leaf	No. of leaves
		Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	Linkless and frameless.
	Material & bar diameter	Steel 2090-03 19 (0.75)
Track bar (type)		Tubular

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Body Type And Or
 Engine Displacement

B230FT M46 + AW71 5-door

Suspension - General

Car leveling	Std. opt. n.a.	N.A.
	Type (air, hyd., etc.)	
	Manual-auto. controlled	
Provision for brake dip control		No
Provision for acct. squat control		Yes
revisions for car jacking		Two jacking points each side
Shock absorber (front & rear)	Type	Front: Hydraulic, telescopic Rear: Hydraulic, telescopic
	Make	Boge, monroe
	Piston diameter	Front: 32 (1.26) Rear: 27 (1.06)
	Rod diameter	Front: 22 (0.87) Rear: 11 (0.43)

Suspension - Front

Type and description		Mac Pherson strut
Drive and torque taken through		-
Travel	Full jounce	94 (3.7)
	Full rebound	94 (3.7)
Spring	Type (coil, leaf, other) & material	Coil, steel 2090-04
	Insulators (type & material)	Rubber
	Size (coil design height & i.d., bar length x dia.)	Design height: 205 (8.1) Innerdia: 138 (5.4) Bar length: 290 (11.4) Bar dia: 13.7 (0.54)
	Spring rate [N/mm (lb./in.)]	18.1 (103)
	Rate at wheel [N/mm (lb./in.)]	22.1 (126)
	Rate at wheel [N/mm (lb./in.)]	22.1 (126)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel 2090-03 21 (0.83)

Suspension - Rear

Type and description		Rigid axle. Support arm each side. Two torque rod near car centre line. Track rod.
Drive and torque taken through		Support arms and torque rods.
Travel	Full jounce	110 (4.3)
	Full rebound	112 (4.4)
Spring	Type (coil, leaf, other) & material	Coil steel 2090-04
	Size (length x width, coil design height & i.d., bar length & dia.)	Design height: 260 (10.2) Bar length: 3100 (122) Inner dia: 98 (3.9) Bar dia: 12.0 (0.47)
	Spring rate [N/mm (lb./in.)]	19.1 (109)
	Rate at wheel [N/mm (lb./in.)]	29.7 (169)
	Insulators (type & material)	Rubber
	If leaf	No. of leaves - Shackle (comp. or tens.)
	Shackle (comp. or tens.)	
Stabilizer	Type (link, linkless, frameless)	Linkless and frameless
	Material & bar diameter	Steel 2090-03 19 (0.75)
Track bar (type)		Tubular

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Body Type And/Or
Engine Displacement

B230FT M46 + AW71 4-door

Brakes - Service

Description			
Brake type (std., opt., n.a.)	Front (disc or drum)		Disc
	Rear (disc or drum)		Disc
Self-adjusting (std., opt., n.a.)			
Special valving	Type (proportion, delay, metering, other)		NA
Power brake (std., opt., n.a.)			Std
Booster type (remote, integral, vac., hyd., etc.)			Integral (direct acting-vacuum)
Vacuum source (inline, pump, etc.)			In line
/atuum reservoir (volume in. ³)			-
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			-
Anti-skid device type (std., opt., n.a.) (F/R)			-
Effective area [cm ² (in. ²)]*			178 alt 186 cm ² /101 cm ² (27.6 alt 28.8 in ² /15.7 in ²)
Gross lining area [cm ² (in. ²)]**(F/R)			184 alt 192 cm ² /101 cm ² (28.5 alt 29.8 in ² /15.7 in ²)
Swept area [cm ² (in. ²)]*** (F/R)			1302 cm ² /1296 cm ² (201.8 in ² /200.9 in ²)
Rotor	Outerworking diameter	F/R	262/281 mm (10.31/11.06 in)
	Inner working diameter	F/R	166/195 mm (6.54/7.68 in)
	Thickness	F/R	22/9.6 mm (0.87/0.38 in)
	Material & type (vented/solid)	F/R	Cast iron, ventilated/solid
Drum	Diameter & width	F/R	
	Type and material	F/R	
Wheel cylinder bore			40 alt 40.4 mm/36 mm (1.57 alt 1.59 in/1.42 in)
Master cylinder	Bore/stroke	F/R	22.3-15.75 alt 23.8-16.84/35 mm (0.88-0.62 alt 0.94-0.66/
Pedal arc ratio			4.1:1 Pedal stroke 160=10 mm (6.30 + 0.4 in) 138 in
Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]			14.7 Mpa alt 12.8 MPa (2130 alt 1856 psi)
Lining clearance (F/R)			0.1/0.1 mm (0.004 in)
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Integrally moulded
		Rivet size	-
		Manufacturer	Textar
		Lining code	FF
		Material	T(X) 293 FF
		**** Primary or out-board	110x48x17 alt 125x48x17 mm (4.33x1.89x4.92x(89x190x0.67 in
		Size Secondary or in-board	110x48x17 alt 125x48x17 mm (4.33x1.89x4.92x(89x190x0.67 in
	Rear wheel	Shoe thickness (no lining)	5.0mm 0.10 in
		Bonded or riveted (rivets/seg.)	Integrally moulded
		Manufacturer	Textar
		Lining code	EE
		Material	T(X) 294 EE
		**** Primary or out-board	62x42x7.5 mm (2.44x1.65x0.31 in)
		Size Secondary or in-board	62x42x7.5 mm (2.44x1.65x0.31 in)
Shoe thickness (no lining)		4.6 mm (0.18 in)	

*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.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line 740 + 760 TURBO
Model Year 1986 Issued _____ Revised (●) _____

Body Type And/Or
Engine Displacement

B230FT M46 + AW71 5-door

Brakes - Service

Description			
Brake type (std., opt., n.a.)	Front (disc or drum)		Disc
	Rear (disc or drum)		Disc
Self-adjusting (std., opt., n.a.)			
Special valving	Type (proportion, delay, metering, other)		NA
Power brake (std., opt., n.a.)			Std
Booster type (remote, integral, vac., hyd., etc.)			Integral (direct acting vacuum)
Vacuum source (inline, pump, etc.)			In line
Vacuum reservoir (volume in. ³)			-
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			-
Anti-skid device type (std., opt., n.a.) (F/R)			-
Effective area (cm ² (in. ²))*			178 alt 186 cm ² /101 cm ² (27.6 alt 28.8 in ² /15.7 in ²)
Gross lining area (cm ² (in. ²))* (F/R)			184 alt 192 cm ² /101 cm ² (28.5 alt 29.8 in ² /15.7 in ²)
Swept area (cm ² (in. ²))* (F/R)			1302 cm ² /1296 cm ² (201.8 in ² /200.9 in ²)
Rotor	Outerworking diameter	F/R	262/281 mm (10.31/11.06 in)
	Inner working diameter	F/R	166/195 mm (6.54/7.68 in)
	Thickness	F/R	22/9.6 mm (0.87/0.38 in)
	Material & type (vented/solid)	F/R	Cast iron, ventilated/solid
Drum	Diameter & width	F/R	
	Type and material	F/R	
Wheel cylinder bore			40 alt 40.4 mm/38 mm (1.57 alt 1.59 in/1.50 in)
Master cylinder	Bore/stroke	F/R	22.3-15.75 alt 23.8-16.84/35 mm (0.88-0.62 alt 0.94-0.66/
Pedal arc ratio			4.1:1 Pedal stroke 160=10 mm (6.30 + 0.4 in) 138 in
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))			14.7 Mpa alt 12.8 MPa (2130 alt 1856 psi)
Lining clearance (F/R)			0.1/0.1 mm (0.004 in)
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Integrally moulded
		Rivet size	-
		Manufacturer	Textar
		Lining code	FF
		Material	I(X) 293 FF
		**** Primary or out-board	110x48x17 alt 125x48x17 mm (4.33x1.89x0.67 (89x190x0.67 in
		Size Secondary or in-board	110x48x17 alt 125x48x17 mm (4.33x1.89x0.67 (89x190x0.67 in
		Shoe thickness (no lining)	5.0mm (0.10 in)
	Rear wheel	Bonded or riveted (rivets/seg.)	Integrally moulded
		Manufacturer	Textar
		Lining code	EE
		Material	I(X) 294 EE
		**** Primary or out-board	62x42x7.5 mm (2.44x1.65x0.31 in)
		Size Secondary or in-board	62x42x7.5 mm (2.44x1.65x0.31 in)
Shoe thickness (no lining)		4.6 mm (0.18 in)	

*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.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line 740 + 760 TURBO
Model Year 1986 Issued _____ Revised (●) _____

Body Type And/Or
Engine Displacement

B 230 FT M 46 + AW 71 4-DOOR + 5-DOOR

Tires And Wheels (Standard)

Tires	Size (load range, ply)		195/60 R15 86 H
	Type (bias, radial, etc.)		RADIAL
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	210 (30)
		Rear (kPa (psi))	250 (36)
	Rev. mile-at 70 km/h (45 mph)		864
Wheels	Type & material		ALUMINUM
	Rim (size & flange type)		6 J x 15
	Wheel offset		25 (0.98)
	Attachment	Type (bolt or stud)	STUD
		Circle diameter	108 (4.25)
Number & size		5 M12 x 1.5	
Spare	Tire and wheel (same, if other describe)		155 R15 R 4.5 J x 15
	Storage position & location (describe)		HORIZONTAL IN TRUNK

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	HAND OPERATED LEVER	
Location of control	BETWEEN FRONT SEATS	
Operates on	REAR WHEELS	
If separate from service brakes	Type (internal or external)	INTERNAL
	Drum diameter	160 (6.30)
	Lining size (length x width x thickness)	184 x 23 x 4 (7.24 x 0.91 x 0.16)

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line 740 - 760
Model Year 1986 Issued _____ Revised (●) _____

Body Type And/Or
Engine Displacement

740 - 760

Steering

Manual (std., opt., n.a.)		NA	
Power (std., opt., n.a.)		STD	
Adjustable steering wheel (tilt, swing, other)	Type and description		
	(Std., opt., n.a.)	N.a	
Wheel diameter	Manual		
	Power	402 (15.8)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.9 (35.7)
		Curb to curb (l. & r.)	9.9 (32.5)
	Inside rear	Wall to wall (l. & r.)	4.8 (15.7)
		Curb to curb (l. & r.)	4.9 (16.1)
Scrub Radius		33 (1.3)	
Manual	Gear	Type	
		Make	
		Ratios	Gear Overall
	No. wheel turns (stop to stop)		
Power	Type (coaxial, linkage, etc.)		Rack and pinion coaxial
	Make		Cam Gears or ZF (B230F)
	Gear	Type	Rack and pinion coaxial
		Ratios	Gear Overall
		Overall	
	Pump (drive)		V-belt from engine
No. wheel turns (stop to stop)		3.55	
Linkage	Type		
	Location (front or rear of wheels, other)		In front of wheels
	Drag links (trans. or longit.)		
	Tie rods (one or two)		two
Steering axis	Inclination at camber (deg.)		11.1 at 0.4
	Bearings (type)	Upper	Needle roller bearing, rubber mounted
		Lower	Ball joint
		Thrust	= upper bearing
Steering spindle & joint type			
Wheel spindle	Diameter	Inner bearing	35 (1.38) Bearing inner dia
		Outer bearing	22 (0.87) Bearing inner dia
	Thread (size)		M18x1
	Bearing (type)		Tapered roller

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line 740-760
Model Year 1986 Issued _____ Revised (●) _____

Body Type And/Or
Engine Displacement

740-760

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	5.0 ± 0.5
		Camber (deg.)	-0.4 ± 0.25
		Toe-in (outside track-mm (in.))	2.0 ± 0.5 (0.08 \pm 0.02) (AT WHEEL RIM)
	Service reset*	Caster	PRESET
		Camber	PRESET
		Toe-in	ADJUSTABLE
	Periodic M.V. inspection	Caster	
		Camber	
		Toe-in	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	
		Toe-in (outside track-mm (in.))	
	Service reset*	Camber	
		Toe-in	
	Periodic M.V. inspection	Camber	
		Toe-in	

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

Electrical— Instruments and Equipment

Speedometer	Type	ELECTRICAL
	Trip odometer (std., opt., n.a.)	STD
EGR maintenance indicator		LAMP
Charge indicator	Type	LAMP
	Warning device	
Temperature indicator	Type	METER
	Warning device	
Oil pressure indicator	Type	LAMP
	Warning device	
Fuel indicator	Type	METER
	Warning device	
Wind-shield wiper	Type (standard)	ELECTRIC 2-SPEED + INTERMITTENT
	Type (optional)	
	Blade length	475 mm
	Swept area (cm ² (in. ²))	6440 cm ²
Wind-shield washer	Type (standard)	GEAR PUMP EL.
	Type (optional)	
	Fluid level indicator	YES
Horn	Type	ELECTRIC
	Number used	2
Other		BRAKE FAILURE WARNING LAMP BULB FAILURE WARNING LAMP

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line 740/760 Turbo
Model Year 1986 Issued _____ Revised (●) _____

Engine Description/Carb.
Engine Code

230FT

Electrical – Supply System

Battery	Make	Noack, Tudor, Sönnak
	Model, std., (opt.)	12FB55
	Voltage	12V
	Amps at 0°F cold crank	450A
	Minutes-reserve capacity	90 min
	Amp./hrs. - 20 hr. rate	55 Ah
	Location	Left front
Generator or alternator	Type and rating	Bosch NI 14V 31/70A
	Ratio (alt. crank/rev.)	1:24
	Optional (type & rating)	
Regulator	Type	Built on

Electrical – Starting System

Start. motor	Current drain at 0°F	225A
Motor drive	Engagement type	Bendix
	Pinion engages from (front, rear)	Front

Electrical – Ignition System

Type	Conventional (std., opt., n.a.)		-
	Electronic (std., opt., n.a.)		Electronic
	Other (specify)		-
Coil	Make	Bosch	
	Model	Standard typem, Primary resistance 0.72 Ω	
	Current	Engine stopped - A	0
		Engine idling - A	2A
Spark plug	Make	Bosch	Champion
	Model	WR7DC	RN9YC
	Thread (mm)	2.7 mm	2.5 mm
	Tightening torque [N-m (lb., ft.)]	25 Nm	25 Nm
	Gap	0.7 mm	0.7 mm
	Number per cylinder	1	1
Distributor	Make	Bosch	
	Model	Distributor on camshaft, Hall effect vane switch	

Electrical – Suppression

Locations & type	Total resistance of 16 k Ω (Ignition wire to ignition coil, resistance at distributor and spark plug caps)
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MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line 740 - 760

Model Year 1986

Issued

Revised (•)

Body Type

740 - 760

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	*	
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Counterbalance, steel spring
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	Counterbalance, gas spring
	Internal release control (elec., mech., n.a.)	NA
Hatch-back lid	Type (counterbalance, other)	-
	Internal release control (elec., mech., n.a.)	-
Bumper front	Bar material & mass, kg (weight, lbs.)	Plastic covered aluminium
	Reinforcement material & mass, kg (lbs.)	
Bumper rear	Bar material & mass, kg (weight, lbs.)	Plastic covered aluminium
	Reinforcement material & mass, kg (lbs.)	
Vent window control (crank, electric, pivot, power)	Front	-
	Rear	-
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Elastic spring + pur foam
	Rear	Polyester foam
	3rd seat	-
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Elastic spring + pur foam
	Rear	Polyester foam
	3rd seat	-
Vehicle identification no. location	Front side plate, right side	

Frame

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

Glass

Backlight slope angle (deg.)	H121	36°	4-door	,	18°	5-door
Windshield slope angle (deg.)	H122	58°	4-door	,	58°	5-door
Tumble-Home (deg.)	W122	19°	4-door	,	19°	5-door
Windshield glass exposed surface area (cm ² (in. ²))	S1	8690cm ²	4-door	,	8690cm ²	5-door
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	13580cm ²	4-door	,	19480cm ²	5-door
Backlight glass exposed surface area (cm ² (in. ²))	S3	5630cm ²	4-door	,	4700cm ²	5-door
Total glass exposed surface area (cm ² (in. ²))	S4	27900cm ²	4-door	,	31070cm ²	5-door
Windshield glass (type)		Laminated safety glass				
Side glass (type)		Heat treated safety glass				
Backlight glass (type)		Heat treated safety glass				

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

Car Line 740 - 760

Model Year 1986

Issued _____

Revised (●) _____

Body Type

4-d + 5-d

Restraint System

Active restraint system	Standard optional	Standard
	Type and description	3 point, shoulder and lapbelt, harness
	Location	Front and outboard rear seats (center rear seats only lapbelt)
Passive seat belts	Standard optional	
	Power manual	
	2 or 3 point	
	Knee bar lap belt	

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

Car Line 740
 Model Year 1986 Issued _____ Revised (●) _____

Body Type

740 TURBO

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

Air conditioning (manual, auto, temp control)		Manual, auto tempcontrol opt
Clock (digital, analog)		Analog
Compass - thermometer		-
Console (floor, overhead)		Floor
Defroster, elec. backlight		Yes, Yes
Electronic	Diagnostic warning (integrated, individual)	Individual
	Instrument cluster (list instruments)	Tachometer, speedometer, clock, turbo gaug, temp gauge, fuel gauge, voltmeter
	Keyless entry	-
	Trip/finder (avg. spd., fuel)	-
	Voice alert (list items)	-
	Other	Bulb failure sensor
Fuel door lock (remote, key, electric)		Key ACC
Lamps	Auto head on / off delay, dimming	-
	Cornering	Yes
	Courtesy (map, reading)	Reading
	Door lock, ignition	-
	Engine compartment	Yes
	Fog	Front + rear
	Glove compartment	Yes
	Trunk	Yes
	Other	-
Mirrors	Day/night (auto, man.)	Man
	L.H. (remote, power, heated)	Remote
	R. H. (convex, remote, power, heated)	Remote
	Visor vanity (RH / LH, illuminated)	-
Parking brake-auto release (warning light)		Yes
Power equipment	Door locks / deck lid - specify	Central locking
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	Heated seat driver + pass , manual lumbar Reclining driver + pass
	Side windows	Yes
	Vent windows	-
	Rear window	-
		-
Radio systems	Antenna (location, whip, w/shield, power)	ACC
	AM, FM, stereo, tape, CB	ACC
	Speaker (number, location) Premium sound	ACC
Roof open air/fixed (flip-up, sliding, "T")		Flip up + sliding
Speed control device		ACC
Speed warning device (light, buzzer, etc.)		-
Tachometer (rpm)		Yes
Theft protection-type		ACC

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)
Car and Body Dimensions

See Key Sheets for definitions

Car Line 740 + 760

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.	4-door	5-door
Width			
Tread (front)	W101	1471	1471
Tread (rear)	W102	1460	1460
Vehicle width	W103	1761 1750 (740)	1761 1750 (740)
Body width at Sg RP (front)	W117	1720	1720
Vehicle width (front doors open)	W120	3520	3520
Vehicle width (rear doors open)	W121	3390	3390
Front fender overall width	W106		
Rear fender overall width	W107		
Tumble-home (deg.)	W122	19°	19°

Length

Wheelbase	L101	2770	2770
Vehicle length	L103	4785	4785
Overhang (front)	L104	920	920
Overhang (rear)	L105	1095	1095
Upper structure length	L123	2526	-
Rear wheel C "X" coordinate	L127	4740	4740
Cowl point "X" coordinate	L125	2438	2438
Front end length at centerline	L125		
Rear end length at centerline	L129		

Height*

Passenger distribution (front/rear)	PD123	Curbweight + Driver + 1 passenger front + 1 passenger rear	
Trunk cargo load		-	
Vehicle height	H101	1410	1435
Cowl point to ground	H114	964	964
Deck point to ground	H138	964	-
Rocker panel-front to ground	H112	204	204
Bottom of door closed-front to grd.	H133	318	318
Rocker panel-rear to ground	H111	204	204
Bottom of door closed-rear to grd.	H135	318	318
Windshield slope angle	H122	58°	58°
Backlight slope angle	H121	36°	18°

Ground Clearance*

Front bumper to ground	H102	362	362
Rear bumper to ground	H104	362	362
Bumper to ground (front at curb mass (wt.))	H103	-	-
Bumper to ground (rear at curb mass (wt.))	H105	-	-
Angle of approach (degrees)	H106	15.8°	15.8°
Angle of departure (degrees)	H107	14.5°	14.5°
Ramp breakover angle (degrees)	H147	12.6°	12.6°
Axle differential to ground (front/rear)	H153	163	163
Min. running ground clearance	H158	151	151
Location of min. run. grd. clear.		Muffler endplate	

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

MVMA Specifications Form**Passenger Car****METRIC (U.S. Customary)****Car and Body Dimensions** See Key Sheets for definitionsCar Line 740 + 760Model Year 1986

Issued _____

Revised (•) _____

Body Type

SAE
Ref.
No.

4-door

5-door

Front Compartment

Sg RP front, "X" coordinate	L31	3420	3420
Effective head room	H61	983	983
Max. eff. leg room (accelerator)	L34	1037	1037
SgRP to heel point	H30	240	240
SgRP to heel point	L53	827	827
Back angle	L40	25°	25°
Hip angle	L42	92°	92°
Knee angle	L44	117°	117°
Foot angle	L46	87°	87°
Design H-point front travel	L17	179	179
Normal driving & riding seat track trvl.	L23		
Shoulder room	W3	1433	1433
Hip room	W5	1390	1390
Upper body opening to ground	H50	1283	1283
Steering wheel maximum diameter	W9	375	375
Steering wheel angle	H18	24°	24°
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	815	815
Effective head room	H63	943	956
Min. effective leg room	L51	881	881
Sg RP (second to heel)	H31	285	285
Knee clearance	L48	40	40
Compartment room	L3	705	-
Shoulder room	W4	1433	1433
Hip room	W6	1390	1390
Upper body opening to ground	H51	1285	1285
Back angle	L41	30°	33°
Hip angle	L43	90°	93°
Knee angle	L45	87°	87°
Foot angle	L47	124°	124°
Headlining to roof panel (second)	H38		
Depressed floor covering thickness	H73		

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	0.475 m ³	-
Liftover height	H195	804	579

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		Midsize	Midsize
Interior volume index (cu. ft.)		93.6 cu.ft	94.2 cu. ft
Trunk/cargo index (cu. ft.)		16.8 cu.ft	39.3 cu. ft

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

See Key Sheets for definitions

Car Line 740 + 760

Model Year 1986 Issued _____ Revised (●) _____

Body Type

SAE
Ref.
No.

745 + 765

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	Backwards ACC
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	1815
Cargo length (closed second)	L203	1057
Cargo length at belt (front)	L204	1798
Cargo length at belt (second)	L205	944
Cargo width (wheelhouse)	W201	1113
Rear opening width at floor	W203	1212
Opening width at belt	W204	1285
Max. rear opening width above belt	W205	980
Cargo height	H201	823
Rear opening height	H202	771
Tailgate to ground height	H250	-
Front seat back to load floor height	H197	420
Cargo volume index [m ³ (ft. ³)]	V2	2.120 m ³
Hidden cargo volume [m ³ (ft. ³)]	V4	-
Cargo volume index-rear of 2-seat	V10	1.113 m ³

Hatchback - Cargo Space

Cargo length at front seatback height	L208	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	-
Second seatback to load floor height	H198	
Cargo volume index [m ³ (ft. ³)]	V3	
Hidden cargo volume [m ³ (ft. ³)]	V4	
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 740 + 760
 Model Year 1986 Issued _____ Revised (e) _____

Body Type

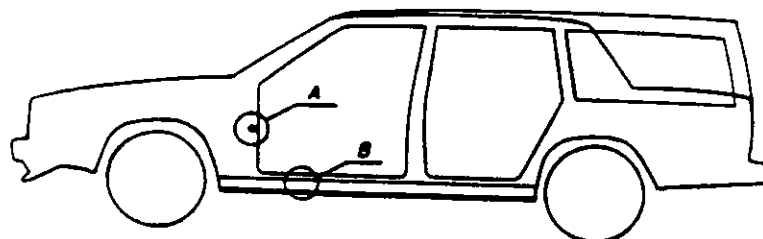
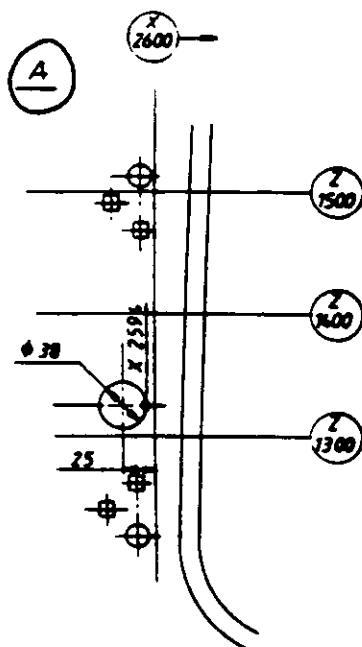
740 + 760

Vehicle Fiducial Marks

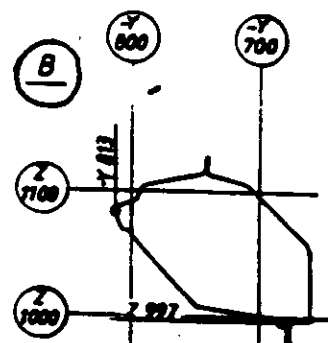
Fiducial Mark
Number*

Define Coordinate Location

Front



Rear



These points lie on a horizontal line for full length of sill in design laden condition.

Fiducial
Mark
Number

Front	W21	813
	L54	2594
	H81	997
	H161	
	H163	221
Rear	W22	
	L55	
	H82	
	H162	
	H164	

* Reference - SAE Recommended Practice, J162a, Motor Vehicle Fiducial Marks - September, 1973.
 All linear dimensions are in millimeters (inches).

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

Car Line 740 + 760
 Model Year 1986 Issued _____ Revised (e) _____

Body Type

SAE
Ref.
No.

740 + 760

Lamps and Headlamp Shape*

4-door

5-door

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	650	650
		Lowest	650	650
	Taillamp (H128)	Highest**	649	608
		Lowest	649	-
	Sidemarker	Front	736	736
		Rear	649	608
Distance from C:L of car to center of bulb	Headlamp	Inside	425	425
		Outside**	608	608
	Taillamp	Inside	572	-
		Outside**	766	784
	Directional	Front	432	432
		Rear	677	755
	Headlamp shape			

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

METRIC (U.S. Customary)

Model Year 1986 Issued _____ Revised (●) _____

Model		Vehicle Mass (weight)							SHIPPING MASS, kg (weight, lb.)
		CURB MASS, kg. (weight, lb.)			% PASS. MASS DISTRIBUTION				
		Front	Rear	Total	Pass in Front		Pass in Rear		
					Front	Rear	Front	Rear	
744 GL	LIGHT	731	578	1309	49	51	19	81	
	HEAVY	738	575	1313	"	"	"	"	
744 GLE	LIGHT	738	588	1326	"	"	"	"	
	HEAVY	831	590	1421	"	"	"	"	
744 TURBO	LIGHT	768	593	1361	"	"	"	"	
	HEAVY	772	594	1366	"	"	"	"	
764 TURBO	LIGHT	774	603	1377	"	"	"	"	
	HEAVY	778	604	1382	"	"	"	"	
764 GLE	LIGHT	792	596	1388	"	"	"	"	
	HEAVY	733	637	1370	"	"	"	"	
745 GL	LIGHT	726	640	1366	"	"	"	"	
	HEAVY	733	637	1370	"	"	"	"	
745 GLE	LIGHT	733	650	1383	"	"	"	"	
	HEAVY	807	652	1459	"	"	"	"	
745 TURBO	LIGHT	742	655	1397	"	"	"	"	
	HEAVY	767	656	1423	"	"	"	"	
765 TURBO	LIGHT	770	665	1435	"	"	"	"	
	HEAVY	774	666	1440	"	"	"	"	

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

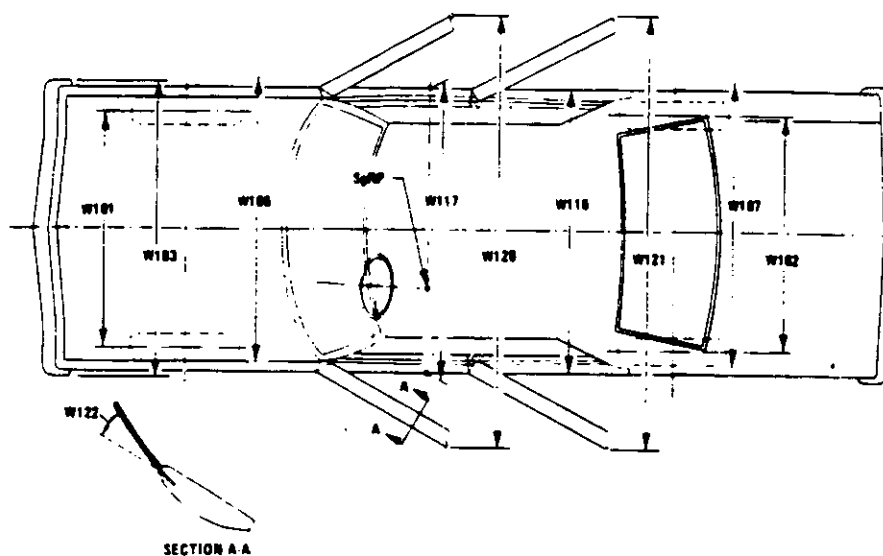
MVMA Specifications Form

Passenger Car

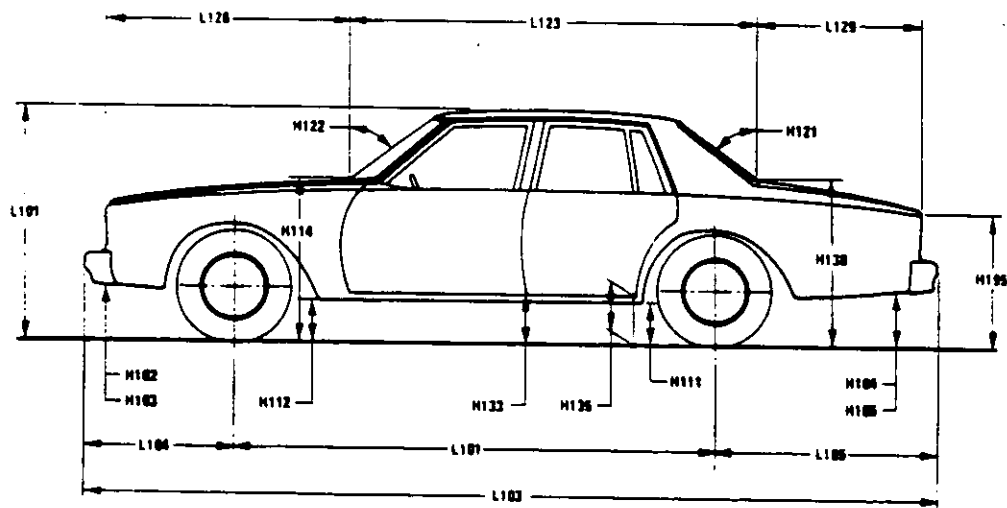
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

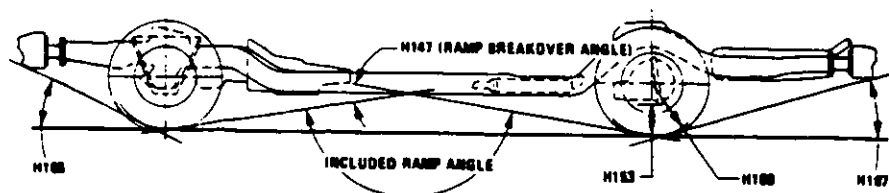
Exterior Width



Exterior Length & Height



Exterior Ground Clearance

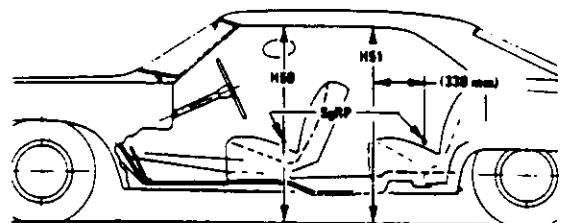
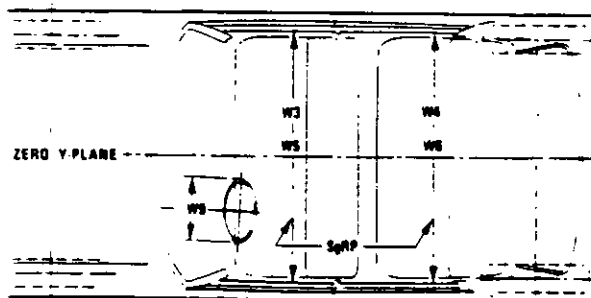
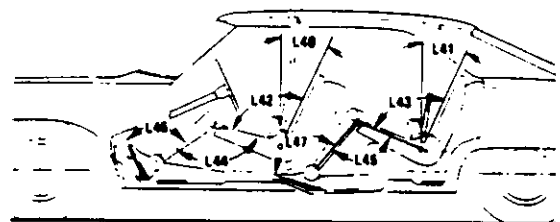
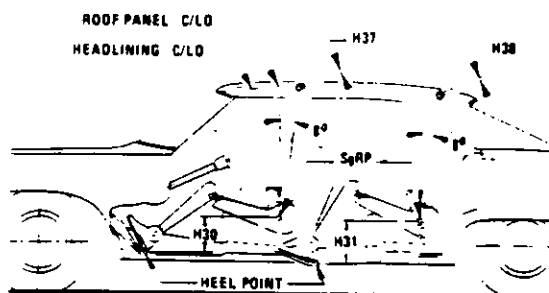
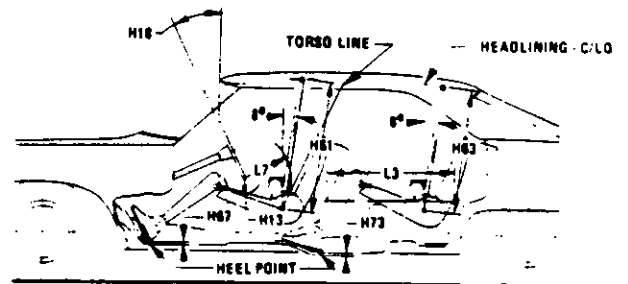
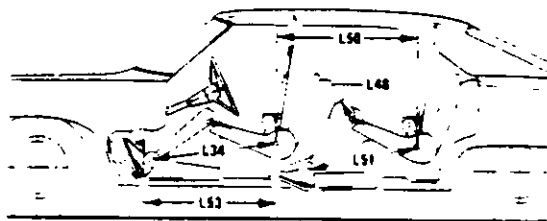


MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

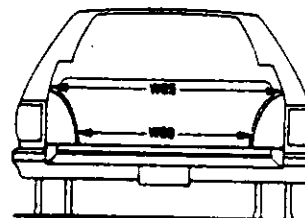
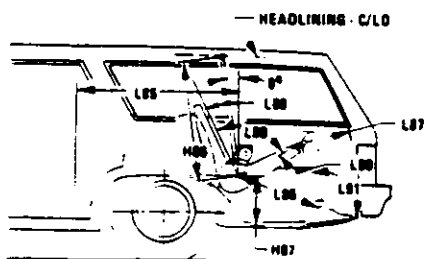
Interior Car And Body Dimensions – Key Sheet



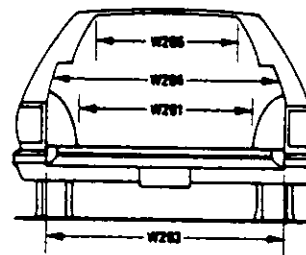
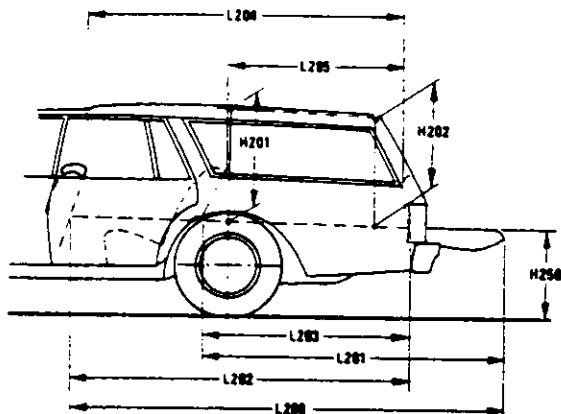
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

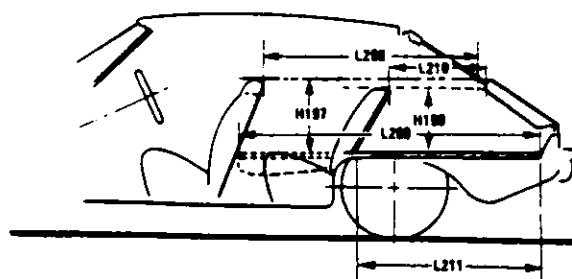
Third Seat



Cargo Space



Station Wagon



Hatchback

MVMA Specifications Form

Passenger Car

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

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

Fiducial Mark - Number 2

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

Front Compartment Dimensions

- L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT-FRONT TRAVEL. The dimension measured horizontally between the design H-point-front in the foremost and rearmost seat track positions.
- L23 NORMAL DRIVING AND RIDING SEAT TRACK LEVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions.
- L31 SgRP-FRONT. "X" COORDINATED.

- L34 MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP-front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L40 BACK ANGLE-FRONT. The angle measured between a vertical line through the SgRP-front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L42 HIP ANGLE-FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE-FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE-FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
- L53 SgRP-FRONT TO HEEL. The dimension measured horizontally from the SgRP-front to the accelerator heel point.
- W3 SHOULDER ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front at height between the belt line and 254 mm (10.0 in.) above the SgRP-front, excluding the door assist strap and attaching parts.
- W5 HIP ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP-front and 76 mm (3.0 in.) fore and aft of the SgRP-front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
- H17 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP-front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point.
- H37 HEADLINING TO ROOF PANEL-FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
- H50 UPPER BODY OPENING TO GROUND-FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane.
- H61 EFFECTIVE HEAD ROOM-FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP-front to the headlining plus 102 mm (4.0 in.).
- H67 FLOOR COVERING THICKNESS-UNDEPRESSED-FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.
- PD1 PASSENGER DISTRIBUTION-FRONT.

Rear Compartment Dimensions

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

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions - Key Sheet

Dimensions Definitions

- L41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP - second and the torso line.
- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254mm (10.0 in.).
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND. Measured in the same manner as W5.
- H31 SgRP-SECOND TO HEEL. The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51 UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in) forward of the SgRP-second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.
- PD2 PASSENGER DISTRIBUTION-SECOND.

Luggage Compartment Dimensions

- V1 USABLE LUGGAGE CAPACITY-Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The interior volume index estimates the space in a car. It is based on four measurements - head room, shoulder room, hip room, and leg room - for the front and rear seats, plus trunk capacity. The interior volume index is an estimate of the size of the passenger compartment.

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

Station Wagon - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second 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 51mm (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 undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH-OPEN-SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L202 CARGO LENGTH-CLOSED-FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH-CLOSED-SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT-FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH-WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.

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 undeformed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undeformed 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 undeformed 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 undeformed 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 undeformed floor covering.

- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the second seat back to the undeformed 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:

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