

JUL 14 1986

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1987

Manufacturer	Car Line	
SAAB-SCANIA AB	SAAB 900 2-DOOR HATCHBACK 2-DOOR SEDAN 2-DOOR CONVERTIBLE 4-DOOR SEDAN	
Mailing Address	Issued	Revised
S-461 80 TROLLHÄTTAN SWEDEN	1986-10-23	

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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Car Line SAAB 900

Model Year 1987

Issued 1986-10-23 Revised (e) _____

Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
SAAB 900 base	M79	2-DOOR HATCHBACK (3d)	2/3	82 kg (180 lb)
	M81	4-DOOR SEDAN (4d)	2/3	82 kg (180 lb)
SAAB 900 S16	M86	2-DOOR HATCHBACK (3d)	2/3	82 kg (180 lb)
	M86	2-DOOR SEDAN (2d)	2/3	82 kg (180 lb)
	M86	4-DOOR SEDAN (4d)	2/3	82 kg (180 lb)
SAAB 900 T16	M85	2-DOOR HATCHBACK (3d)	2/3	82 kg (180 lb)
	M85	4-DOOR SEDAN (4d)	2/3	82 kg (180 lb)
SAAB 900 T16S	M85	2-DOOR HATCHBACK (3d)	2/3	82 kg (180 lb)
SAAB 900 T16CV	M86 1/2	2-DOOR CONVERTIBLE	2/2	82 kg (180 lb)
<p>NOTE: 900 = medium luxury degree 900/S16/T16/T16S/T16CV = high luxury degree</p>				

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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 (in ³)	Carb. (Barrels, Fl. etc.)	Compr. Ratio	SAE Net at RPM				
				Power kW (bhp)	Torque N·m (lb. ft.)			
900 base	1,985	-	9,25:1	81 (110) at	161 (119) at	S	Manual 5-speed	3,67:1
900 base	1,985	-	9,25:1	5250	3500	S	Automatic 3-speed	3,67:1
900 S16	1,985	-	10,1:1	92 (125) at	170 (125) at	S	Manual 5-speed	3,67:1
900 S16	1,985	-	10,1:1	5800	3000	S	Automatic 3-speed	3,67:1
900 T16/T16S /T16CV	1,985	-	9,0:1	118 (160) at	255 (188) at	S	Manual 5-speed	3,67:1
900 T16/T16S /T16CV	1,985	-	9,0:1	5500	3000	S	Automatic 3-speed	3,67:1
(Both Federal and California)								

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Engine Description/Carb.
Engine Code

2 litres, 4 cyl, SOHC fuel injection/DOHC fuel injection
or turbocharger with fuel injection.

ENGINE - GENERAL

S16/T16 when different

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Inline, front, longitudinal SOHC	DOHC
Manufacturer	SAAB-SCANIA AB	
No. of cylinders	4	
Bore	90 mm	
Stroke	78 mm	
Bore spacing (C/L to C/L)	103	
Cylinder block material & mass kg (lbs.) (machined)	Cast iron special alloy	
Cylinder block deck height	213	
Cylinder block length		
Deck clearance (minimum) (above or below block)	0	
Cylinder head material & mass kg (lbs.)	Cast aluminium alloy	
Cylinder head volume (cm ³)	51 ± 1	44,4 ± 1
Cylinder liner material		
Head gasket thickness (compressed)	1,2 mm	
Minimum combustion chamber total volume (cm ³)	61,7	51,16/58,78
Cyl. no. system (front to rear)*	L. Bank	
	R. Bank	1-2-3-4 Cylinder 1 nearest firewall
Firing order	1-3-4-2	
Intake manifold material & mass kg (lbs.)**	Cast aluminium 2,9 kg	
Exhaust manifold material & mass kg (lbs.)**	Cast iron 6,7 kg	Nodular iron 7,6 kg
Recommended fuel (leaded, unleaded, diesel)	Unleaded fuel	
Fuel antiknock index (R + M) 2	(91 + 83) = 87	
Total dressed engine mass (wt) dry***	Approximately 133 kg	140 kg/155 kg

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Cast aluminium 500 ± 6 (make Mahle)	500/520 ± 6
--	--	-------------

Engine - Camshaft

Location	Overhead	
Material & mass kg (weight, lbs.)	Cast iron, 2,93 kg	2,1 kg each
Drive type	Chain: belt	Chain
	Width / pitch	13,5 mm over pins/9,525 mm

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

** Finished state.

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

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Engine Description/Carb.
Engine Code

2,0 litres

Engine - Valve System

S16/T16 when different

Hydraulic lifters (std., opt., NA)	NA	Yes
Valves	Number intake / exhaust	4/4
	Head O.D. intake / exhaust	42/34,5
		8/8
		32/29

Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]*	Forged steel, 818 ± 29g
	max 9g difference in one engine

Engine - Crankshaft

Material & mass (kg., (weight, lbs.))*	Forged steel 16,2 kg	
End thrust taken by bearing (no.)	3	
Number of main bearings	5	
Seal (material, one, two piece design, etc.)	Front	Rubber, one piece design
	Rear	Rubber, one piece design

Engine - Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	Min 3,0 bar (kp/cm ²) at 2000 r/m tot max 4-5 bar	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full flow	
Capacity of oil case, less filter-refill-L (qt.)	3,4	3,6/4,1 incl oil cooler

Engine - Diesel Information

Diesel engine manufacturer		
Glow plug, current drain at 0°F		
Injector nozzle	Type	
	Opening pressure (kPa (psi))	NA
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	NA	NA/Garrett AiResearch
Super charger - manufacturer	-	NA
Charge cooler	NA	NA/Blackstone AB

*Finished State

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Engine Description/Carb.
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2,0 litres

Engine - Cooling System

T16 when different

Coolant recovery system (std., opt., n.a.)	Std		
Coolant fill location (rad., bottle)	Bottle		
Radiator cap relief valve pressure [kPa (psi)]	100 (1.0 bar)		
Circulation thermostat	Type (choke, bypass)	Bypass with wax	
	Starts to open at °C (°F)	88/82	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	5,5	
	Number of pumps	1	
	Drive (V-belt, other)	V-belt	
	Bearing type	Ballbearing	
	Impeller material	Cast iron	
	Housing material	Cast aluminium	
By-pass recirculation (type (inter... ext.))	Internal		
Cooling system capacity	With heater—L (qt.)	10	
	With air cond.—L (qt.)	10	
	Opt. equipment (specify—L (qt.))	NA	
Water jackets full length of cyl. (yes, no)	Yes		
Water all around cylinder (yes, no)	Yes		
Water jackets open at head face (yes, no)	No		
Radiator core	Std., A/C, HD	Std	
	Type (cross-flow, etc.)	Cross-flow	
	Construction (fin & tube mechanical, braze, etc.)	Fin & tube, brazed	
	Material, mass (kg (wgt, lbs.))	Copper and brass, 4,5 - 5,2 kg	
	Width	598 mm	
	Height	324 mm	
	Thickness	32 mm	
	Fins per inch	13	20
Radiator end tank material	Brass		
Fan	Std., elec., opt.	Elec	
	Number of blades & type (flex, solid, material)	5	2 x 5
	Diameter & projected width	(280 x 65) mm ✕	2 x (280 x 55) mm
	Ratio (fan to crankshaft rev.)	NA	
	Fan cutout type	NA	
	Drive type (direct, remote)	Electric	
	RPM at idle (elec.)	2,400	3,000 each
	Motor rating (wattage) (elec.)	15+	2 x 215
	Motor switch (type & location) (elec.)	Thermo-contact located in radiator	
	Switch point (temp., pressure) (elec.)	Switch on at 92°C and Switch off at 87°C	
	Fan shroud (material)	Polyamid	

*) Models with A/C have an additional fan (280 x 55) mm of 215 W = used fan on the T16-engines

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Engine Description/Carb.
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2,0 litres

S16/T16 when different

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

Induction type: carburetor, fuel injection system, etc.		Fuel injection system or turbocharger with fuel injection	
Manufacturer		Bosch	
Carburetor	Choke (type)		
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	
		Automatic	NA
Air/F mix.		50/50 puls relation of lambda-system	
Fuel injection	Point of injection (no.)	4	
	Constant, pulse, flow	Constant	Pulse
	Control (electronic, mech.)	Mechanical	Electronic
	System pressure (kPa (psi))	5 bar (72,5 psi)	3 bar/43,5 psi, 2,5 bar/36,3 psi
Intake manifold heat control (exhaust or water thermostatic or fixed)		NA	
Air cleaner type	Standard	Paper element	
	Optional	NA	
Fuel pump	Type (elec. or mech.)	Electric	
	Location (eng., tank)	In fuel tank	
	Pressure range (kPa (psi))	0-0,1 bar/14,5 psi (feed-pump) and see system pressure above!	

Fuel Tank

Capacity (refill L (gallons))		63
Location (describe)		Under luggage compartment floor between rear wheels
Attachment		By two metal bands
Material & Mass (kg (weight lbs))		Polyethylene, 5,4 kg
Filler pipe	Location & material	Rear right fender, Polyethylene
	Connection to tank	Hose
Fuel line (material)		Polyamid
Fuel hose (material)		PVC-nitril/Hypalon-rubber
Return line (material)		Polyamid
Vapor line (material)		NA
Extended range tank	Opt., n.a.	NA
	Capacity (L (gallons))	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	NA
	Capacity (L (gallons))	
	Location & material	
	Attachment	
	Selector switch or valve	
	Separate fill	

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2,0 litres

T16 when different

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Engine modification, closed loop 3-way catal.system	
	Air Injection	Pump or pulse	NA	
		Driven by		
		Air distribution (head, manifold, etc.)		
		Point of entry		
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	NA	
		Exhaust source		
		Point of exhaust injection (spacer, carburetor, manifold, other)		
	Catalytic Converter	Type	3-way catalyst	
		Number of	1 (dual-type)	
		Location(s)	Under front floor	
		Volume [L (in ³)]	Substrate-volume = 0,839+0,839=1,678 0,839+1,259=2,098	
Substrate type		Monolith		
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction system	
	Energy source (manifold vacuum, carburetor, other)		Inlet manifold vacuum trottle valve	
	Discharges (to intake manifold, other)		Inlet manifold upstream and Air filter vacuum downstream trottle valve	
	Air inlet (breather cap, other)		NA	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	
		Carburetor	NA	
Electronic system	Vapor storage provision		Canister	
	Closed loop (yes/no)		Yes	
	Open loop (yes/no)		No	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		1) One rear, straight thru = absorption type One rear, reverse flow = reflexion type
Resonator no. & type		NA
Exhaust pipe	Branch o.d., wall thickness	2) NA
	Main o.d., wall thickness	48 x 1,5 mm 60 x 1,5 mm
	Material & Mass [kg (weight lbs)]	3) Al-plated steel
Inter- mediate pipe	o.d. & wall thickness	4) 48 x 1,5 mm 60 x 1,5 mm
	Material & Mass [kg (weight lbs)]	5) Steel + al-plated steel Al-plated steel
Tail pipe	o.d. & wall thickness	6) 44 x 1,25 mm 60 x 1,25 mm
	Material & Mass [kg (weight lbs)]	Al-plated steel Stainless steel

Difference for the S16-engines

- 1) One centre, reverse flow = reflexion and one rear straight thru = absorption
- 2) Two branches, 45 x 1,5 mm
- 3) Al-plated steel

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- 4) 48 x 1,25 mm
- 5) Al-plated + stainless steel
- 6) 48 x 1,25 stainless steel

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2,0 litres

Transmissions/Transaxle

S16/T16 when different

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

Manual Transmission/Transaxle

Number of forward speeds		5	
Transmission ratios	In first	3.5417 3.8022	
	In second	2.0018 2.1490	
	In third	1.3434 1.4422	
	In fourth	0.9659 1.0370	
	In fifth	0.7813 0.8387	
	In overdrive	NA	
	In reverse	3.8958 4.1824	
Synchronous meshing (specify gears)		All forward gears	
Shift lever location		Floor mounted	
Lubricant	Capacity [L (pt.)]		3.0
	Type recommended		
	SAE viscosity number	Summer	10W30 alt 10W40 alt EP75
		Winter	"
		Extreme cold	"

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		Valeo, single dry plate, hydraulic	Fichtel & Sachs (T16)
Assist (yes, no percent)		No	
Type pressure plate springs		Diaphragm	
Total spring load (N (lb.))		Min 4000	Min 5340
No. of clutch driven discs		1	
Clutch facing	Material	Ferodo 201	Textar 314
	Manufacturer	Valeo	Fichtel & Sachs
	Part number	87 22 32	87 15 26
	Rivets/plate	12	16
	Rivet size	Ø 5 x 1 = 7 mm	
	Outside & inside dia.	(200 x 145) mm	(216 x 146) mm
	Total eff. area (cm ² (in. ²))	149	199
	Thickness	7,3 mm	
Engagement cushion method		Segments	
Release bearing	Type & method of lubrication	Ball bearing, permanently lubricated	
Torsional damping	Method: springs, friction material	Multi stage spring centre	

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Engine Description/Carb.
 Engine Code

2,0 litres

Automatic Transmission/Transaxle

T116 when different

Trade name		Borg Warner type 37	
Type and special features (describe)		Torque converter, primary drive, three speed gearbox, final drive	
Selector	Location	Floor mounted	
	Ltr. No. designation	P, R, N, D, 2, 1	
Gear ratios	1st	2.09	
	2nd	2.39 1.45 1.00	
	3rd	NA	
	4th	2.39 1.45	
	Reverse	2.39	
Max. upshift speed - drive range (km/h (mph))		107-119	114-127
Max. kickdown speed - drive range (km/h (mph))		90-105	95-111
Min. overdrive speed (km/h (mph))		NA	
Torque converter	Number of elements	3	
	Max. ratio at stall	2.37:1	2.38:1
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	9.5 "	
Lubricant	Capacity (refill L (pt.))	8	
	Type Recommended	According to Ford M2C33-G	
Oil cooler (std., opt., NA, internal, external, air, liquid)			

Axle or Front Wheel Drive Unit

Type (front, rear)		Front	
Description		Trans-axle type	
Limited slip differential (type)		NA	
Drive pinion offset		0	
Drive pinion (type)		Spiral bevel	
No. of differential pinions		2	
Pinion / differential adjustment (shim, other)		Shim	
Pinion / differential bearing adjustment (shim, other)		Shim	
Driving wheel bearing (type)		Tapered roller bearings	
Lubricant	Capacity (L (pt.))		1.25
	Type recommended		EP oil SAE 80W according to API-GL-4 or GL-5
	SAE viscosity number	Summer	80W
		Winter	80W
		Extreme cold	80W

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

Axle ratio (or overall top gear ratio)		3.67:1
No. of teeth	Pinion	9
	Ring gear or gear	33
Ring gear o.d.		179 mm
Transaxle	Transfer gear ratio	NA
	Final drive ratio	NA

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Engine Code

All models

Axle Shafts – Front Wheel Drive

Manufacturer and number used		Two	
Type (straight, solid bar, tubular, etc.)		Left	Solid bar
		Right	Solid bar
Outer diam. x length* x wall thickness	Manual transmission	Left	Ø 28 x 454,55
		Right	Ø 28 x 508,85
	Automatic transmission	Left	Ø 28 x 454,55
		Right	Ø 28 x 508,85
	Optional transmission	Left	NA
		Right	NA
Slip yoke	Type	NA	
	Number of teeth	NA	
	Spline o.d.	NA	
Universal joints	Make and mfg. no.	Inner	Glaenzer Spicer
		Outer	Löbro
	Number used	Two	
	Type, size, plunge	Inner	Tripod joints
		Outer	Rzeppa
	Attach (u-bolt, clamp, etc.)		Lock ring
	Bearing	Type (plain, anti-friction)	Balls (outer), Needle bearing (inner)
Lubrication (fitting, prepack)		Prepack	
Drive taken through (torque tube, arms or springs)		Shaft joints	
Torque taken through (torque tube, arms or springs)		Shaft joints	

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

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Body Type And/Or
Engine Displacement

All models

Suspension - General

T16 when different

Car leveling	Std. opt. n.a.	NA
	Type (air, hyd., etc.)	NA
	Manual auto. controlled	NA
Provision for brake dip control		Front suspension geometry
Provision for accel. squat control		" "
Provisions for car jacking		1 provision behind each front wheel underneath the sillbear 1 provision in front of each rear wheel " " "
Shock absorber (front & rear)	Type	Hydraulic twin tube gas/monotube gas, telescopic
	Make	Tokico or Fichtel & Sachs Front/rear Front*)
	Piston diameter	Twin tube gas = 25 mm, monotube = 36,0 mm 42,0 mm
	Rod diameter	" " " = 12,5 mm " = 11,0 mm 11,0 mm

Suspension - Front

*) with stabilizer

Type and description		Unequal length wishbones
Travel	Full jounce	100 mm
	Full rebound	80 mm
Spring	Type (coil, leaf, other) & material	Coil
	Insulators (type & material)	Steel
	Size (coil design height & i.d., bar length & dia.)	Design height: 373mm, inner dia: 110mm, Design height: 301 mm bar dia = 13,9 - 14,5 mm inner dia = 110 mm bar dia = 15,7 mm
	Spring rate (N/mm (lb. in.))	31,7 kN/m 60,8 kN/m
	Rate at wheel (N/mm (lb. in.))	18,8 kN/m 36,0 kN/m
	Stabilizer	
Stabilizer	Type (link, linkless, frameless)	Linkless
	Material & bar diameter	Steel (60 SiCr 7) Ø 18

Suspension - Rear

Type and description		Rigid axle, 2 forward and 2 rearward longitudinal links and 1 lateral link.
Travel	Full jounce	95 mm
	Full rebound	75 mm
Spring	Type (coil, leaf, other) & material	Coil
	Size (length x width, coil design height & i.d., bar length & dia.)	Length = 300 mm, inner dia = 84 mm, bar dia = 14,7 - 15,1 mm bar dia = 15,8 mm
	Spring rate (N/mm (lb. in.))	30,8 kN/m 83,4 kN/m
	Rate at wheel (N/mm (lb. in.))	27,3 kN/m 32,2 kN/m
	Insulators (type & material)	Rubber seat
	If leaf	No. of leaves NA Shackle (comp. ortens.) NA
Stabilizer	Type (link, linkless, frameless)	Linkless
	Material & bar diameter	Steel (Boron Steel) Tube
Track bar (type)		Panhard rod 26,9/9,20

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Body Type And/Or
Engine Displacement

All models

Brakes - Service

Description			Front = floating caliper, Rear = fixed caliper. Vacuum operated power assist. Dual Diagonal brake lines.		
Manufacturer and brake type (std., opt., n.a.)		Front (disc or drum)	Disc		
		Rear (disc or drum)	Disc		
Self-adjusting (std., opt., n.a.)			Std		
Special valving	Type (proportion, delay, metering, other)		NA		
Power brake (std., opt., n.a.)			NA		
Booster type (remote, integral, vac., hyd., etc.)			Vac		
Vacuum source (inline, pump, etc.)			Engine		
Vacuum reservoir (volume in. ³)			NA		
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			NA		
Anti-lock device type (std., opt., n.a.) (F/R)			NA		
Effective area [cm ² (in. ²)]*			228		
Gross lining area [cm ² (in. ²)]**(F/R)					
Swept area [cm ² (in. ²)]**(F/R)			2504		
Rotor	Outerworking diameter		F R	276,0/267,5 mm	
	Inner working diameter		F R	177,0/191,5 mm	
	Thickness		F R	12,7/10,5 mm	
	Material & type (vented solid)		F R	Cast iron solid/Cast iron solid	
Drum	Diameter & width		F R	NA/NA	
	Type and material		F R	NA	
Wheel cylinder bore			54/30 mm		
Master cylinder	Bore/stroke		F R	22,23 mm (7/8 in)/max 34,9 mm	
Pedal arc ratio			4,0:1		
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))					
Lining clearance			F R	0,1/0,1	
Brake lining	Front wheel	Bonded or riveted (rivets seg.)		Bonded	
		Rivet size		NA	
		Manufacturer		Delco/Moraine/Textar	
		Lining code*****		Delco 121EE/T 474 GF	
		Material		Semi metallic/organic	
		****	Primary or out-board	76 x 52 x 8,7 mm	
		Size	Secondary or in-board	76 x 52 x 8,7 mm	
		Shoe thickness (no lining)		5,5 mm	
	Rear wheel	Bonded or riveted (rivets seg.)		Bonded	
		Manufacturer		Roulunds	
		Lining Code*****		DB 870 FF	
		Material		Organic	
		****	Primary or out-board	53 x 37 x 8,7 mm	
		Size	Secondary or in-board	53 x 37 x 8,7 mm	
		Shoe thickness (no lining)		5,5 mm	

*Excludes rivet holes, grooves, chamfers, etc.

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

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

****Size for drum brakes includes length x width x thickness.

*****Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line SAAB 900

Model Year 1987

Issued 1986-10-23 Revised (e)

Body Type And/Or
Engine Displacement

All models

Tires And Wheels (Standard)

S16/T16 when different

Tires	Size (load range, ply)		185/65 R15 87T	195/60 R15 86H *)
	Type (bias, radial, etc.)		Steel radial, tubeless	
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	2,2 bar	2,4 bar
		Rear (kPa (psi))	2,3 bar	2,5 bar
Wheels	Rev. mile-at 70 km/h (45 mph)			
	Type & material		Disc wheels, steel	Light alloy wheels
	Rim (size & flange type)		5 1/2 J x 15" H2	
	Wheel offset		40 mm	
	Attachment	Type (bolt or stud)	Stud	
		Circle diameter	114,3 mm	
		Number & size	4 1/2" 20 UNF-2B	
Spare	Tire and wheel (same, if other describe)		Tyre = T115/70 D15 or R15, Steel rim = 4J H1 x 15 E55 Inflation pressure = 4,2 bar	
	Storage position & location (describe)		Under luggage compartment floor to the left behind the fuel tank inside the car	

*) T16S have 195/60 VR15

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		Front wheels
If separate from service brakes	Type (internal or external)	NA
	Drum diameter	NA
	Lining size (length x width x thickness)	NA

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line SAAB 900

Model Year 1987 Issued 1986-10-23 Revised (•)

Body Type And/Or
Engine Displacement

All models

Steering

S16/T16 when different

Manual (std., opt., n.a.)		NA	
Power (std., opt., n.a.)		Std	
Adjustable steering wheel/column (tilt, telescope, other)	Type	NA	
	Manufacturer		
	(Std., opt., n.a.)	NA	
Wheel diameter** (W9) SAE J1100	Manual	NA	
	Power	388 mm	382 mm
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	11.2
		Curb to curb (l. & r.)	10.3
	Inside rear	Wall to wall (l. & r.)	
		Curb to curb (l. & r.)	
Scrub Radius*		22 mm	21 mm
Manual	Gear	Type	NA
		Manufacturer	NA
		Ratios	Gear NA
		Overall	NA
	No. wheel turns (stop to stop)		NA
Power	Type (coaxial, linkage, etc.)		Coaxial
	Manufacturer		Saginaw Steering wheel
	Gear	Type	Rack and pinion
		Ratios	Gear 18.9:1
		Overall	NA
	Pump (drive)		V-belt
	No. wheel turns (stop to stop)		3.7
Linkage	Type	One tie rod on each side	
	Location (front or rear of wheels, other)	Rear	
	Tie rods (one or two)	2	
Steering axis	Inclination at camber (deg.)		11.5 ± 0.5
	Bearings (type)	Upper	Ball joint
		Lower	" -
		Thrust	
Steering spindle & joint type		Spindle formed by upright with upper and lower ball joint	
Wheel spindle hub	Diameter	Inner bearing	NA
		Outer bearing	NA
	Thread (size)		NA
	Bearing (type)		NA

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

**See Page 21.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line SAAB 900

Model Year 1987

Issued 1986-10-23 Revised (•)

Body Type And/Or
Engine Displacement

All models

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	$2 \pm 1/2$
		Camber (deg.)	$1/2 \pm 1/2$
		Toe-in (outside track-mm (in.))	2 ± 1
	Service reset*	Caster	Adjustable
		Camber	"
		Toe-in	"
	Periodic M.V. inspection	Caster	
		Camber	
		Toe-in	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	$-1/2 \pm 1/4$
		Toe-in (outside track-mm (in.))	$4 \pm 1 1/2$
	Service reset*	Camber	Pre-set
		Toe-in	"
	Periodic M.V. inspection	Camber	
		Toe-in	

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

Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Magnetic torque drive
	Trip odometer (std., opt., n.a.)	Std
EGR maintenance indicator EXH		Amber lamp on panel
Charge indicator	Type	Red lamp
	Warning device (light, audible)	Lights up when alternator is not charging
Temperature indicator	Type	Electric gauge
	Warning device (light, audible)	Red zone indicates too high temperature
Oil pressure indicator	Type	Red lamp
	Warning device (light, audible)	Lights up when oil pressure falls under 0.3-0.5 bar kp/cm
Fuel indicator	Type	Electric gauge and amber lamp
	Warning device (light, audible)	Lamp indicates less than 7 l.
Windshield wiper	Type (standard)	Electric and intermittent, 2-speed
	Type (optional)	NA
	Blade length	400 mm
	Swept area (cm ² (in. ²))	7874
Windshield washer	Type (standard)	Electric centrifugal pump
	Type (optional)	NA
	Fluid level indicator (light, audible)	Transparent plastic container
Rear window wiper, wiper/washer (std., opt., n.a.)		
Horn	Type	Vibrator
	Number used	Two
Other		Handbrake indicator light, brake warning light, hazard warning flasher indicator, high beam indicator light, direction indicator lamp, seat belt reminder light, buzzer for left ignition key, clock and tachometer, electric rear window defroster indicator light, rheostat control illumination and instrument panel lighting. Gear shaft indicator light.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line SAAB 900
Model Year 1987 Issued 1986-10-23 Revised (e)

Engine Description/Carb.
Engine Code

2,0 litres

Electrical - Supply System

Battery	Manufacturer	Noach
	Model, std., (opt.)	Maintenance free, std
	Voltage	12V, 78 plates
	Amps at 0°F cold crank	
	Minutes-reserve capacity	
	Amp/hrs. - 20 hr. rate	62 Ah
	Location	In engine compartment floor on R/H front
Alternator	Manufacturer	
	Rating	Max output 80A
	Ratio (alt. crank/rev.)	2,3:1
	Optional (type & rating)	NA
Regulator	Type	Voltage regulator built in into alternator, electronic

Electrical - Starting System

Start. motor	Current drain at 0°F	300A
Motor drive	Engagement type	Bendix
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

S16/T16-engine when different

Type	Electronic (std., opt., n.a.)	Std
	Other (specify)	NA
Coil	Make	Bosch
	Model	S3
	Current	Engine stopped - A
		Engine idling - A
Spark plug	Make	NGK
	Model	BP,6 ES
	Thread (mm)	M14 x 1,25
	Tightening torque (N-m (lb. ft))	25-29
	Gap	0,6 - 0,7 mm
	Number per cylinder	1
Distributor	Make	Bosch TZ59H
	Model	JHFU 4

Electrical - Suppression

Locations & type	Suppression cables between coild - distributor 1,15 - 1,3 k Ω distributor - spark plugs 1,7 - 3,6 k Ω and rotor 1 k Ω . Manufacturer Bougicord, type 403.
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MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line SAAB 900
Model Year 1987 Issued 1986-10-23 Revised (•) _____

Body Type

All models

Body

Structure	
Bumper system front - rear	Bar material = aluminium alloy Energy absorbtion material = plyeten Cover material = olephine based elastomer
Anti-corrosion treatment	

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Enamel
Hood	
Hinge location (front, rear)	Front
Type (counterbalance, prop)	Counterbalance
Release control (internal, external)	Internal and external
Trunk lid	
Type (counterbalance, other)	Balanced steel springs
Internal release control (elec., mech., n.a.)	NA
Hatch-back lid	
Type (counterbalance, other)	Telescopic gas springs
Internal release control (elec., mech., n.a.)	NA
Station wagon	
Vent window control (crank, friction, pivot, power)	
Front	NA
Rear	NA
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	
Front	Elastic spring mat, cold cure foam fabric cover
Rear	Coil spring, fabric cover
3rd seat	NA
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	
Front	Fabric cover
Rear	" "
3rd seat	NA

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

Car Line SAAB 900
 Model Year 1987 Issued 1986-10-23 Revised (•) _____

Body Type

All models

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	Front and rear outboard 3 point seat belts with emergency locking retractor, rear center lap belt
	Location	
Passive seat belts	Standard/optional	
	Power/manual	
	2 or 3 point	
	Knee bar/lap belt	

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized body	
Glass	SAG Ref. No.	
Windshield glass exposed surface area [cm ² (in. ²)]	S1	
Side glass exposed surface area [cm ² (in. ²)] - total 2-sides	S2	
Backlight glass exposed surface area [cm ² (in. ²)]	S3	
Total glass exposed surface area [cm ² (in. ²)]	S4	
Windshield glass (type)		Laminated, tinted
Side glass (type)		Tempered, tinted
Backlight glass (type)		" "

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

Car Line SAAB 900
Model Year 1987 Issued 1986-10-23 Revised (•) _____

Body Type

All models

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

Air conditioning (manual, auto, temp control)		Manual Opt/Std
Clock (digital, analog)		Analog Std
Compass thermometer		Std
Console (floor, overhead)		Opt/Std
Defroster, elec. backlight		Std
Electronic	Diagnostic monitor (integrated, individual)	NA
	Instrument cluster (list instruments)	NA
	Keyless entry	NA
	Tripmeter (avg. spd., fuel)	NA
	Voice alert (list items)	NA
	Other	
Fuel door lock (remote, key, electric)		Remote
Lamps	Auto head on / off delay, dimming	Opt/Std
	Cornering	Std, lighted when direction indicator is turned on
	Courtesy (map, reading)	Std
	Door lock, ignition	NA/Std
	Engine compartment	NA
	Fog	Opt/Std
	Glove compartment	Std
	Trunk	Std
	Other	
Mirrors	Day night (auto, man.)	Manual
	L.H. (remote, power, heated)	Remote/Power
	R. H. (convex, remote, power, heated)	Convex remote/Power
	Visor vanity (RH L.H., illuminated)	Std
Parking brake-auto release (warning light)		Std
Power equipment	Door locks, deck lid - specify	Opt/Std
	Seat (2-4-6 way): heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	Heated (driver), reclining (driver/pass)
	Side windows	Std/Opt
	Vent windows	NA
	Rear window	NA
Radio systems	Antenna (location, whip, w. shield, power)	Rear left side power, Opt/Std
	AM, FM, stereo, tape, CB	AM/FM stereo, tape Opt/Std
	Speaker (number, location) Premium sound	4, 2 front + 2 rear Opt/Std
Roof open air fixed (flip-up, sliding, "T")		Sliding manual/Power Opt/Std
Speed control device		Std, some models
Speed warning device (light, buzzer, etc.)		NA
Tachometer (rpm)		Std, some models
Telephone system - mobile		
Theft protection-type		Gear shift locked in reverse by the ignition key

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions

See Key Sheets for definitions

Car Line SAAB 900

Model Year 1987

Issued 1986-10-23

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.	2/4 doors	3 doors when different
-----------	--------------	-----------	------------------------

Width

Tread (front)	W101	1430 mm
Tread (rear)	W102	1440 mm
Vehicle width	W103	1690 mm
Body width at Sq RP (front)	W117	
Vehicle width (front doors open)	W120	
Vehicle width (rear doors open)	W121	
Front fender overall width	W106	
Rear fender overall width	W107	
Tumble-home (deg.)	W122	

Length

Wheelbase	L101	2517 mm
Vehicle length	L103	4680 mm
Overhang (front)	L104	1032 mm
Overhang (rear)	L105	1131 mm
Upper structure length	L123	
Rear wheel C L "X" coordinate	L127	
Cowl point "X" coordinate	L125	
Front end length at centerline	L126	
Rear end length at centerline	L129	

Height*

T16CV/T16S when different

Passenger distribution (front/rear)	PD1.2.3	2/3
Trunk cargo load		82 (180 lbs)
Vehicle height	H101	1400 mm
Cowl point to ground	H114	
Deck point to ground	H138	
Rocker panel-front to ground	H112	
Bottom of door closed-front to grd.	H133	
Rocker panel-rear to ground	H111	
Bottom of door closed-rear to grd.	H135	
Windshield slope angle	H122	
Backlight slope angle	H121	

Ground Clearance*

Front bumper to ground	H102	
Rear bumper to ground	H104	
Bumper to ground (front at curb mass (wt.))	H103	
Bumper to ground (rear at curb mass (wt.))	H105	
Angle of approach (degrees)	H106	14°
Angle of departure (degrees)	H107	
Ramp breakover angle (degrees)	H147	
Axle differential to ground (front/rear)	H153	
Min. running ground clearance	H156	135 mm
Location of min. run. gr. clear.		Catalytic converter

* 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.

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

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line SAAB 900

Model Year 1987

Issued 1986-10-23 Revised (e)

Body Type

SAE
Ref.
No.

Front Compartment

2/3d

4d when different

CV when different

Sg RP front, "X" coordinate	L31	2252 = drivers seat, 2215 = passenger seat		
Effective head room	H61	960 = without sunroof, 940 = with sunroof	955	
Max. eff. leg room (accelerator)	L34	1060		
Sg RP to heel point	H30	280		
Sg RP to heel point	L53			
Back angle	L40	250		
Hip angle	L42			
Knee angle	L44			
Foot angle	L46			
Design H-point front travel	L17	177 = drivers seat, 140 = passenger seat		
Normal driving & riding seat track trvl.	L23			
Shoulder room	W3	1330	1350	1350
Hip room	W5	1230	1345	1345
Upper body opening to ground	H50	1290		
Steering wheel maximum diameter*	W9			
Steering wheel angle	H18	26.50		
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	741 = behind drivers seat, 778 = behind passenger seat	1)	
Effective head room	H63	950	920	
Min. effective leg room	L51	880 = behind drivers seat, 915 = behind passenger seat	2)	
Sg RP (second to heel)	H31	340		
Knee clearance	L48	-15 = behind drivers seat, 5 = behind passenger seat	3)	
Compartment room	L3	620 "		
Shoulder room	W4	1355	1345	1000
Hip room	W6	1300	1350	1085
Upper body opening to ground	H51	-	1280	
Back angle	L41			
Hip angle	L43			
Knee angle	L45			
Foot angle	L47			
Headlining to roof panel (second)	H38			
Depressed floor covering thickness	H73			

Luggage Compartment

3d

2/4d

CV

Usable luggage capacity [L (cu. ft.)]	V1	421	408	279
Liftover height	H195	-	740	740

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		Compact car		
Interior volume index (cu. ft.)		109.7	104.2/102.6	85.8
Trunk cargo index (cu. ft.)				

* See page 14.

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

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Page 21

- 1) CV = 720 behind drivers seat
757 behind passenger seat
- 2) CV = 875 behind drivers seat
- 3) CV = -51 behind drivers seat

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

See Key Sheets for definitions

Car Line SAAB 900Model Year 1987Issued 1986-10-23

Revised (●) _____

Body Type

SAE
Ref.
No.

All models

Station Wagon - Third Seat

NA

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

NA

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

Hatchback - Cargo Space

Cargo length at front seatback height	L208	
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*

T16CV

Wheel lip to ground, front	660 mm, At design load = 2 pers front and 30 kg luggage	
Wheel lip to ground, rear	640 mm, "	
Frontal area (m ² (ft. ²))	1,95 m ² , photographic method MIRA	
Drag coefficient (Cd)		2,01 m ²

* EPA Loaded Vehicle Weight, Loading Conditions

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

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

Car Line SAAB 900
 Model Year 1987 Issued 1986-10-23 Revised (•) _____

Body Type

All models

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
Front	
Rear	
Fiducial Mark Number	
Front	W21* L54* H81* H161* H163*
Rear	W22* L55* H82* H162* H164*

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

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

Car Line SAAB 900
 Model Year 1987 Issued 1986-10-23 Revised (e) _____

Body Type

3d

2/4d when different

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	624 mm
		Lowest	
	Taillamp (SAE - H128)	Highest**	587 mm 600 mm
		Lowest	
	Sidemarker	Front	664 mm
		Rear	567 mm 600 mm
Distance from C.L. of car to center of bulb	Headlamp	Inside	
		Outside**	472 mm
	Taillamp	Inside	663 mm 547 mm
		Outside**	653 mm 658 mm
	Directional	Front	670 mm
		Rear	615 mm 616 mm
Halogen headlamp (std., opt., n.a.)	Lo beam		
	Hi beam		
	Replaceable bulb		
	Shape		
Headlamp other than above	Lo beam		
	Hi beam		
	Replaceable		
	Shape		
	Type		

* Measured at curb mass (weight).

** If single lamps are used enter here.

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

METRIC (U.S. Customary)

Model Year 1987

Issued 1986-10-23 Revised (●)

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

METRIC (U.S. Customary)

Car Line SAAB 900

Model Year 1987

Issued 1986-10-23 Revised (●)

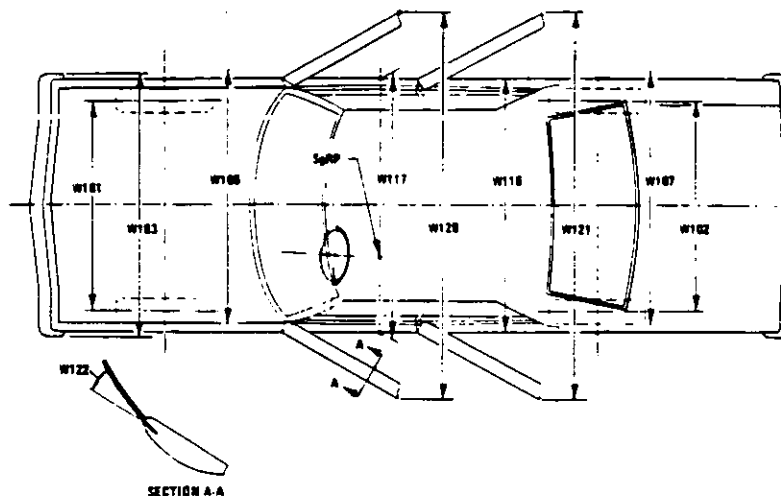
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*Also see Engine - General Section for dressed engine mass (weight).

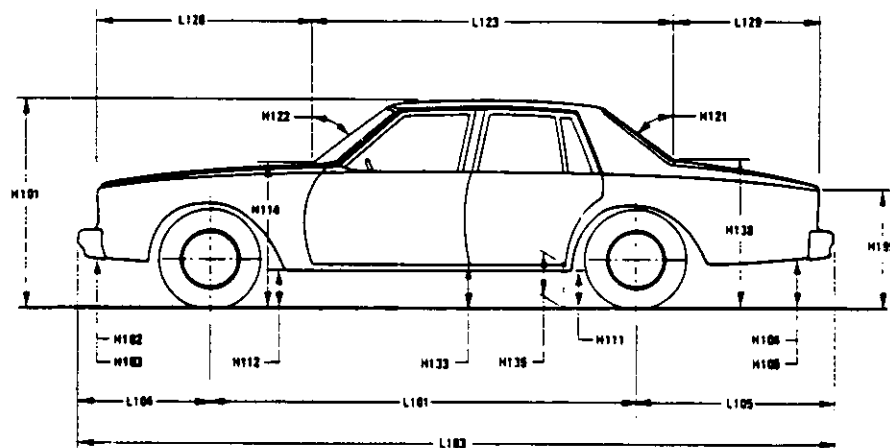
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

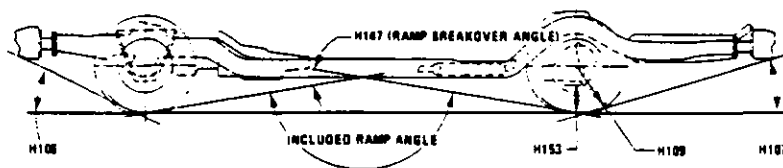
Exterior Width



Exterior Length & Height

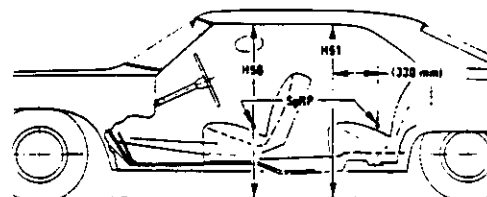
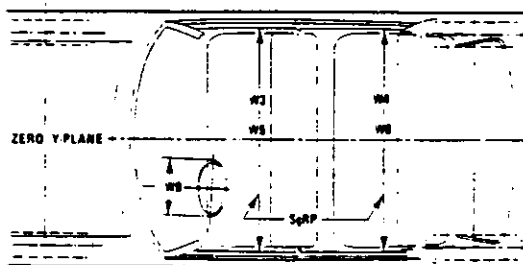
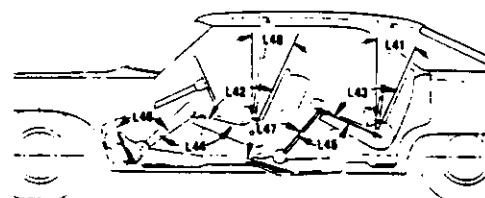
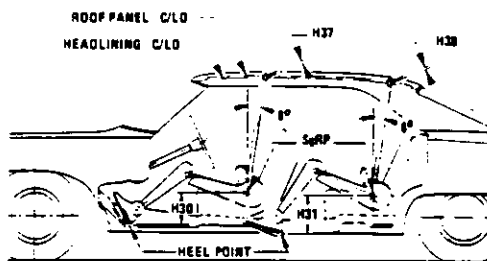
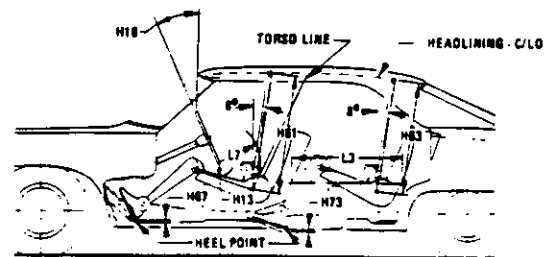
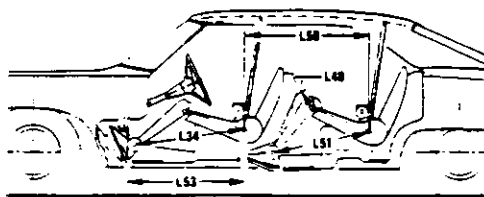


Exterior Ground Clearance



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

Interior Car And Body Dimensions – Key Sheet



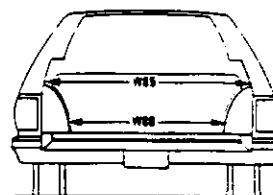
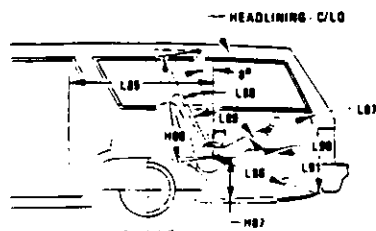
MVMA Specifications Form

Passenger Car

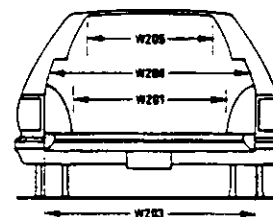
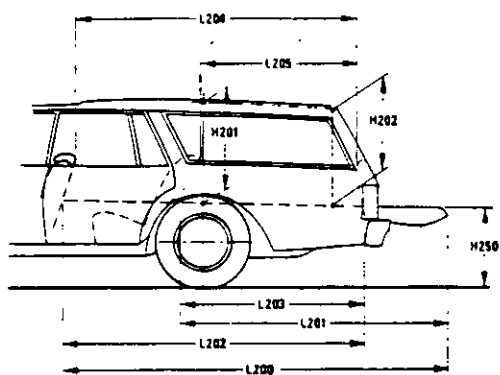
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

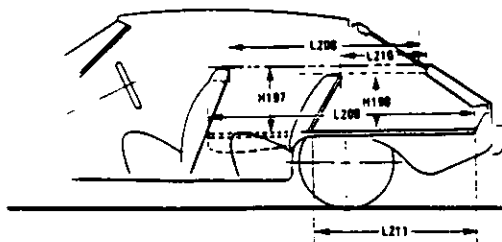
Third Seat



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 headlamp lens to ground.
- H128 TAILLAMP TO GROUND-CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.
- H133 BOTTOM OF DOOR CLOSED-FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H135 BOTTOM OF DOOR CLOSED-REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD-TIRE RADIUS-REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND-CURB MASS (WT.). Measured in the same manner as H102.

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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.
- H82 "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. (See SAE J1100)
- 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. (See SAE J1100)
- L31 SgRP-FRONT. "X" COORDINATED.

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

Rear Compartment Dimensions

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

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Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions - Key Sheet

Dimensions Definitions

- L-41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP-second and the torso line.
- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP 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-J1100a.
- 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. from the SgRP-third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 SgRP-THIRD TO HEEL POINT.
- PD3 PASSENGER DIRECTION-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 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 undeepressed floor covering to the rearmost point on the undeepressed 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 wheelhouseings at floor level. For any vehicle not trimmed, measure to the sheet metal.

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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:

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

 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:

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

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