MVMA

Specifications Form

Passenger Car

1983

METRIC (U.S. Customary)

Manufacturer	Car Line	
VOLKSWAGEN OF AMERICA, INC.	RABBIT	
Mailing Address	Model Year	Issued:
27621 Parkview Blvd. Warren, Michigan 48092	1983	6-30-82
		Revised (*): 9-01-82

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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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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 and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Models

Model Description	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Truck Cargo Load—Kilograms (Pounds)
RABBIT (L)				
2 Door **	10/20/82	175-1	2/2	83.9 Kg. (185 Lbs.)
RABBIT (LS)	10/20/82			
2 Door		175-2	2/2	83.9 Kg. (185 Lbs.)
4 Door		177-2	2/2	63.5 Kg. (140 Lbs.)
RABBIT (GL)	10/20/82			
2 Door		175-3	2/2	83.9 Kg. (185 Lbs.)
4 Door		177-3	2/2	63.5 Kg. (140 Lbs.)
RABBIT (S)	10/20/82			
2 Door		175-4	2/2	83.9 Kg. (185 Lbs.)

** N/A CANADA

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Power Teams (Indicate whether standard or optional)

SAE Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

SERIES AVAILABILITY				ENGINE						TRANSMISSION						AXLE RATIO (std first) (indicate A/C ratio)		
				Displ. Liters (in^3)	Carb (Barrels, FI, etc.)	Compr Ratio	SAE Net at RPM kW (bhp)	SAE Net at RPM Torque N·m (lb ft)	Exhaust System*	TRANS M4	TRANS M5	TRANS A3	AREA 49	AREA Cal	AREA Can	M4	M5	Auto
L	LS	GL	GTI															
S	-	-	-	1.7 (105) 4 Cyl. O.H.C.	Carb. 1v	8.0	48.5 (65) @ 5000	120.0 (88.5) @ 2800	S	S	-	-	X	-	-	3.89	-	-
S	-	-	-	1.7 (105) 4 Cyl. O.H.C.	Fuel Inj.	8.2	*	*	S	S	-	-	-	X	X			
-	S	-	-				55.2 (74) @ 5000	121.5 (89.6) @ 3000		S	0	0	X	X	X	3.89	3.89 **	3.57 3.42
-	-	S	-							-	S	0	X	X	X			
-	0	-	-	1.6 (97) O.H.C. Turbo Diesel	Inj.	23.0	50.7 (68) @ 4500	132.8 (98) @ 2800	S	-	S	0	-	-	X	-	3.89	3.13
-	0	-	-							-	S	-	X	X	-			
-	-	0	-							-	S	0	X	X	X			
0	-	-	-	1.6 (97) O.H.C. Diesel	Inj.	23.0	38.8 (52) @ 4800	97.0 (71.5) @ 2000	S	S	-	-	X	X	X	-	3.89	3.57
-	0	-	-							S	0	0	X	X	X			
-	-	-	S	1.8 H.P. (109) 4 Cyl. O.H.C.	Fuel Inj.	8.5	67.1 (90) @ 5500	135.6 (100) @ 3000	S	-	S	-	X	X	X	-	3.94	-
(*) Canadian Values:							56.7 (76) @ 5000	123.8 (91.3) @ 3000		NOTE: Manual 4 Speed and 5 Speed includes - upshift light (3+E/4+E) Automatic includes "E" Mode on Diesel only.								

** Late Introduction

* S—Single D—Dual

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ENGINE – GENERAL

Type & description (inline, V, angle, flat, location (front, mid, rear, transverse, longitudinal, etc.)		Inline, Front and Transverse		
No. of cylinders		4		
Bore		79.5 (3.13)	81.0 (3.198)	76.5 (3.012)
Stroke		86.4 (3.40)	86.4 (3.400)	86.4 (3.40)
Bore spacing (c/l to c/l)				
Cylinder block material		Cast Iron		
Cylinder block deck height		220 (8.66)		
Deck clearance (minimum) (above or below block)				
Cylinder head material		Aluminum Alloy Casting		
Cylinder head volume (cm^3)				
Head gasket thickness (compressed)				
Minimum combustion chamber volume (cm^3)				
Cylinder system (front to rear*)	L. Bank	1-2-3-4		
	R. Bank	–		
Firing order		1-3-4-2		
Recommended fuel (leaded, unleaded, diesel)		Unleaded		No. 2 Diesel
Fuel antiknock index $\frac{(R+M)}{2}$		87		
Total dressed engine mass (wt) dry**				

Engine – Pistons

Material	Aluminum Alloy w/Lead Coating
Mass, g (weight, oz) – Piston Only	452 (15.9)

Engine – Camshaft

Location		Overhead
Material (kg, weight, lbs.)		Iron
Mass (kg, weight, lbs.)		
Type of drive (chain or belt)	Width	Belt
	Pitch	

* 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

Lifters (std., opt., n.a.)	Hydraulic	N/A (Mechanical)
	Solid	Non Rotating

Engine — Connecting Rods

Material & mass (kg., weight, lbs.)	Forged Steel Larger End--500 (17.65oz) Smaller End--191.9(6.74oz)

Engine — Crankshaft

Material (kg., weight, lbs.)	Forged Steel
Mass (kg., weight, lbs.)	
End thrust taken by bearing (no.)	Three

Engine — Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	0.2 Bar Min.	0.5 Bar Min.
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full Flow	
Capacity of crcase, less filter-refill-L (qt.)	4.0 (4.2)----- 4.4 (4.7) (w/Filter Chg.)	

Engine — Diesel Information

Glow plug, current drain at 0°F		60 Amp. (Steady State)
Injector nozzle	Type	Bosch-- 4 Req'd.
	Opening pressure (kPa (psi))	13000-- 13800 (1855--2000)
Pre-chamber design		Swirl Port
Fuel injection pump	Manufacturer	Bosch
	Type	Injection
Supplementary vacuum source (type)		Vacuum Pump-- Gear Driven

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

			Carburator	Fuel Injection	Diesel Injection
Induction type: carburetor, fuel injection system, etc.					
Carburetor	Mfgr		Carter		
	Choke (type)		Electric		
	Idle spd -rpm (spec neutral or drive and propane if used)	Manual	925 ± 75		
		Automatic	–		
Idle A/F mix			1.5% CO	0.75 ± 0.45% CO	N/A
Fuel injection	Point of injection (no.)		–	Port	Swirl Chamber
	Constant, pulse, flow		–	Constant	Pulse
	Control (electronic, mech.)		–	Mechanical	
	System pressure (kPa (psi))		–	4.5/5.2 Bar	13000-13800(1855-2000)
Intake manifold heat control (exhaust or water) thermostatic or fixed			Water	None	
Air cleaner type	Standard		Paper Element		
	Optional		None		
Fuel pump	Type (elec. or mech.)		Mech.	Electric	Mechanical Inj./With Pressure Compensator
	Location (eng., tank)		Engine	Ahead of Tank	Left Side of Engine
	Pressure range (kPa (psi))		210-275	500(72.5)	750 (109)

Fuel Tank

Capacity (refill) L (gallons)		37.9 (10.0)		41.6 (11.0)
Location (describe)		Under Floor forward of rear wheels		
Attachment		2 Straps-- 1 Hook/1 Bolt per Strap		
Material		Terne Coated Steel		
Filler pipe	Location & material	Right Rear Corner		
	Connection to tank	Felxible Rubber Hose		
Fuel line (material)		Terne Steel		
Fuel hose (material)		Flexible Rubber		
Return line (material)		None	Terne Steel	
Vapor line (material)		Terne Stl.	Nylon	
Extended range tank	Opt., n.a.	N/A		
	Capacity (L (gallons))	–		
	Location & material	–		
	Attachment	–		
Auxiliary tank	Opt., n.a.	N/A		
	Capacity (L (gallons))	–		
	Location & material	–		
	Attachment	–		
	Selector switch or valve	–		
	Separate fill	–		

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Engine — Cooling System

Coolant recovery system (std., opt., n.a.)			Standard	
Coolant fill location (rad., bottle)			Bottle	
Radiator cap relief valve pressure (kPa (psi))			103.4/137.9 (15-20)	(20-24) on Turbo
Circulation thermostat	Type (choke, bypass)		Spring Loaded Engine By-pass	
	Starts to open at °C (°F)		87° C (199° F)	
Water pump	Type (centrifugal, other)		Centrifugal	
	GPM 1000 pump rpm		—	
	Number of pumps		One	
	Drive (V-belt, other)		V-Belt	
	Bearing (type)		Intergral Ball Bearing	
By-pass recirculation (type (inter., ext.))			—	
Radiator core (type (cross-flow vertical cellular tube and fin, other) and material)			Cross Flow	
Cooling system capacity	With heater—L(qt.)		6.9 (7.3)	
	With air cond.—L(qt.)		6.9 (7.3)	
	Opt. equipment (specify—L(qt.))		N/A	
Water jackets full length of cyl. (yes, no)			No	
Water all around cylinder (yes, no)			No	
Radiator core	Standard	Width	525 (20.7)	
		Height	322 (12.7)	
		Thickness	42.0 (1.65)	
		Fins per inch	—	
	A.C	Width	—	570 (22.5)
		Height	—	305 (12.0)
		Thickness	—	32 (1.26)
		Fins per inch	—	
	Heavy duty	Width	570 (22.5)	
		Height	322.4 (12.77)	
		Thickness	49.4 (1.94)	
		Fins per inch	—	
Fan (standard)	Number of blades & type (flex, solid, material)		4-Polypropylene	3-Polymid (Turbo)
	Diameter & projected width		280 (11.0)	305 (12.0) Torbo/w/A.
	Ratio (fan to crankshaft rev.)		N/A	
	Fan cutout type		Electric Motor	
	Drive (type (direct, remote))		Remote	
	Fan shroud (material)		Steel	
Fan (electric)	Diameter & projected width		280 (11.0)	
	RPM at idle		—	
	Motor rating (wattage)		200 All	350 (Turbo w/A)
	Motor switch (type & location)		Thermo (On top of starter)	2nd: [illegible]
	Switch point (temp., pressure)		—	
	Fan shroud (material)		—	
Fan (optional)	No. of blades and spacing		—	
	Diameter & projected width		—	
	Ratio (fan to crankshaft rev.)		—	
	Fan cut-out (type)		—	
	Drive (type, direct, remote)		—	

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection engine modifications other)		Closed Loop Carburetor	Fuel Injection	Diesel Fuel Inj. Turbo same w/EGR
	Air Injection	Pump (type)	Pulse		
		Driven by	Exhaust		
		Air distribution (head, manifold, etc.)			
		Point of entry	Catalysis		
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Throttle Port		
		Exhaust source	Manifold		
		Point of exhaust injection (spacer carburetor, manifold, other)	Manifold		
	Catalytic Converter	Type	Dual Bed	3-way + Oxid.	N/A
		Number of	One		–
		Location(s)	Under floor		–
		Volume (L [in³])	1.22(74)	1.25 (76)	–
		Substrate type	Monolith		–
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Closed		
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum		
	Discharges to (intake manifold, other)		Intake Manifold		
	Air inlet (breather cap, other)		Air Cleaner		
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister		Atmosphere
		Carburetor	Canister	N/A	
	Vapor Storage provision (crankcase, canister, other)		Canister		N/A

Engine – Exhaust System

Type (single, single with cross-over, dual, other)			Single		Turbo
Muffler no. & type (reverse flow, straight thru, separate resonator)			One, Reverse Flow		
Resonator no. & type			None		
Exhaust pipe	Branch o.d. x wall thickness	mm	–		
	Main o.d. x wall thickness	mm	44.4x1.2		41.2x1.5 44.4x1.5
	Material		Stainless Steel		Alum. Coated Steel
Intermediate pipe	o.d. x wall thickness	mm	41.2x1.8	44.4x1.8	41.2x1.5 44.4x1.5
	Material		Alum.Ti.		Alum. Coated Steel
Tail pipe	o.d. x wall thickness	mm	41.2x1.5	50.8x1.2	41.2x1.5 44.4x1.5
	Material		Alum. Coated Steel		

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Engine Description/Carb. Engine Code	1.7 Ltr. 105 CID	1.8 Ltr. 109 CID	1.6 Ltr. 97 CID

Electrical — Supply System

Battery	Voltage rtg (V & total plates)	12 V, 78 Plates	12 V, 102 Plates
	Minimum reserve cranking		
	SAE capacity (amps)	54 A.H. (63 A.H. Canada)	63 A.H.
	Location	Front left side of Engine Compartment	
Generator or alternator	Type and rating	65 AMP	75 AMP w/SNA-1 Trs
	Ratio (alt. crank/rev.)	—	
	Optional (type & rating)	— 90 AMP Diesel w/SNA-1 Transm.	
Regulator	Type	Integral	

Electrical — Starting System

Start motor	Rating (W)	515 W.(manual Trans)- 800 W.(Auto Trans)-- 950 W(GTI
Motor drive	Engagement type	Solenoid
	Pinion engages from (front, rear)	Front

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Electrical — Ignition System

Type	Conventional (std., opt., n.a.)	N/A		
	Transistorized (std., opt., n.a.)	Standard		N/A
	Other (specify)	—		Compression
Coil	Make	Bosch		N/A
	Model	—		
	Current — Engine stopped — A	—		
	Current — Engine idling — A	—		
Spark plug	Make	Bosch/Beru/Champ	Bosch/Beru/Cham	N/A
	Model	W7D /14-7d/N8Y	WR705/RS35/N8GY	
	Thread (mm)	14		
	Tightening torque (N-m (lb-ft))	30 (22)		
	Gap	0.7 (0.028)		
Distributor	Make	Breakerless		
	Model	—		

Electrical — Suppression

Locations & type	Capacitors on Alternator, Wiper Motor and Electric Fan; Copper Core Iginition Cables w/Lumped Resistors and metal spark plug shields.		Capacitors on Alternator, wiper motor and Electri Fan.

Electrical — Instruments and Equipment

Speedometer	Type	Pointer	
	Trip odometer (std., opt., n.a.)	Std. (LS&GLonly)	
EGR maintenance indicator		LED (where Reqd.)	
Charge indicator	Type	LED	
	Warning device	—	
Temperature indicator	Type	LED (Gauge w/Deluxe instrumentation)	
	Warning device	—	
Oil pressure indicator	Type	—	
	Warning device	LED	
Fuel indicator	Type	Electric Gauge	
	Warning device	Red Sector (Low Fuel)	
Windshield wiper	Type (standard)	Electric 2-Sp. (L&LS) 4-way wipe/wash w/interm. (GL& GLS)	
	Type (optional)	Electric 1-Sp. Wipe/Wash--Rear Wdo. (LS,GL&GTI)	
	Blade length	406.4(16); Std w/Shield--Shield Opt. on Rear	
	Swept area (cm² (in²))	—	
Windshield washer	Type (standard)	Std. Elect.-Cowl located Jets	
	Type (optional)	—	
	Fluid level indicator	Translucent Fluid Container	
Horn	Type	Single Tone	
	Number used	One	
OXS, Maintainence Indicator- LED (Where Reqd.)			
Glow Plug		—	LED
Other			

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Transmissions

Manual 3-speed (std., opt., n.a.)	N/A
Manual 4-speed (std., opt., n.a.)	Std.
Manual 5-speed (std., opt., n.a.)	Opt. (Std. GTI) (N/A on Carb. Engine)
Manual overdrive (std., opt., n.a.)	Std. 4-Sp.(4th. Gear)-- 5-Sp. (5th. Gear)
Automatic (std., opt., n.a.)	Opt. (N/A L or Carb Eng.)
Automatic overdrive (std., opt., n.a.)	-

Manual Transmission

		(A)	(A)	
Number of forward speeds		4-Speed (3+E)	5-Speed (4+E)	5-Speed (GTI only)
Transmission ratios	In first	3.45 : 1	3.45 : 1	3.45 : 1
	In second	1.75 : 1	1.94 : 1	2.12 : 1
	In third	1.06 : 1	1.29 : 1	1.44 : 1
	In fourth	0.70 : 1 "E"	0.91 : 1	1.13 : 1
	In fifth	-	0.71 : 1 "E"	0.91 : 1
	In overdrive	-	-	-
	In reverse	3.17 : 1	3.17 : 1	3.17 : 1
Synchronous meshing (specify gears)		All except Reverse		
Shift lever location		Floor		
Lubricant	Capacity (L (pt))	1.5 (3.2)		
	Type recommended	Hypoid Mil-L-2105; API/GL-4		
	SAE viscosity number: Summer	SAE 80W; SAE80W/90		
	SAE viscosity number: Winter	same		
	SAE viscosity number: Extreme cold	same		

Clutch (Manual Transmission)

Make & type		Single Plate, Dry	
Type pressure plate springs		-	
Total spring load (N (lb))		3700-4200 (832.0-944.0)	
No. of clutch driven discs		One	
Clutch facing	Material	Woven Asbestos	
	Manufacturer	Fichel and Sach/Luk	
	Part number	-	
	Rivets/plate	16/-	
	Rivet size	9.5 (0.374)	
	Outside & inside dia	190x134(7.48x5.27)	200x134 (7.67x5.27)
	Total eff. area (cm^2 (in^2))		346 (53.67
	Thickness		3.25 (0.126)
	Engagement cushion method	Wave Spring Segments	
Release bearing	Type & method of lubrication	Ball thrust bearing - Lubed by oil from Transmission	
Torsional damping	Method: springs, friction material	Coil Spring with Fiber Washers	

(A)-- "E" position on both manual transmissions denotes the economy overdrive gear.

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Automatic Transmission

Trade name		3-Speed Automatic	
Type (describe)		Automatic Transaxle	
Selector	Location	Floor	
	Ltr. No. designation	P-R-N-D-2-1	P-R-N-E-D-2-1
Gear ratios	R	2.46 : 1	2.46 : 1
	E Mode (Diesel Only)	—	1.00 : 1
	D	1.00 : 1	1.00 : 1
	2	1.00 : 1	1.50 : 1
	1	2.71 : 1	2.71 : 1
Max. upshift speed - drive range (km/h (mph))		—	
Max. kickdown speed - drive range (km/h (mph))		D-Position : 88 (55)	
Min. overdrive speed (km/h (mph))		—	
Torque converter	Number of elements	Three	
	Max. ratio at stall	2.4 : 1	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	244 (9.6)	
Lubricant	Capacity (refill) L (pt.)	3.0 (6.4)	
	Type recommended	Dexron or DexronII ATF	
Special transmission features		Economy feature on Diesel Automatic Transmission : When position power flow to the transmission is disengaged as the accelerator is released.	

Axle or Front Wheel Drive Unit

Type (front, rear)		Front	
Description		Parallel Axes Helical Gears	
Limited slip differential (type)		—	
Drive pinion offset		—	
Drive pinion (type)		—	
No. of differential pinions		Two	
Pinion adjustment (shim, other)		—	
Pinion bearing adj. (shim, other)		—	
Driving wheel bearing (type)		Double Row Ball Bearing	
Lubricant	Capacity (L (pt.))	1.3 (2.8)	
	Type recommended	SAE 90 Mil.-L-2105B, API/GL-5	
	SAE viscosity number: Summer	—	
	SAE viscosity number: Winter	—	
	SAE viscosity number: Extreme cold	—	

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

Axle ratio or overall ratio		3.13	3.42	3.57	3.89	3.94
No. of teeth	Pinion					
	Ring gear or gear					
Ring gear O.D.						
Transaxle	Transfer gear ratio					
	Final drive ratio					

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Propeller Shaft — Conventional Drive Not Available

Type (straight tube, tube-in-tube, internal-external damper, etc.)			
Outer diam. x length* x wall thickness	Manual 3-speed trans		
	Manual 4-speed trans		
	Manual 5-speed trans		
	Overdrive		
	Automatic transmission		
Intermediate bearing	Type (plain, anti-friction)		
	Lubrication (fitting, prepack)		
Slip yoke	Type		
	Number of teeth		
	Spline o.d.		
Universal joints	Make and mfg. no.	Front	
		Rear	
	Number used		
	Type (ball and trunnion, cross)		
	Rear attach (u-bolt, clamp, etc.)		
	Bearing — Type (plain, anti-friction)		
	Bearing — Lubric. (fitting, prepack)		
Drive taken through torque tube, arms or springs)			
Torque taken through torque tube, arms or springs)			

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

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Car Line Rabbit

Model Year 1983 Issued 6-30-82 Revised (*)

Engine Description/Carb. Engine Code	1.7 Ltr. 105 CID	1.8 Ltr. 109 CID	1.6 Ltr. 97 CID

Axle Shafts — Front Wheel Drive

Number used			Two
Type (straight solid bar, tubular, etc.)		Left	Solid Bar
		Right	Tubular
Outer diam. x length * x wall thickness	Manual transmission	Left	
		Right	
	Automatic transmission	Left	
		Right	
	Optional transmission	Left	
		Right	
Slip yoke	Type		
	Number of teeth		
	Spline o.d.		
Universal joints	Make and mfg. no.	Inner	
		Outer	
	Number used		Two
	Type, size, plunge	Inner	Constant Velocity
		Outer	Constant Velocity
	Attach (u-bolt, clamp, etc.)		Clamp
	Bearing — Type (plain, anti-friction)		Ball Bearing
	Bearing — Lubric. (fitting, prepack)		Prepack
Drive taken through (torque tube, arms or springs)			Engine Mounts
Torque taken through (torque tube, arms or springs)			

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

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

Car Line RABBIT
Model Year 1983 Issued 6-30-82 Revised (*)

Engine Description/Carb. Engine Code	1.7 Ltr. 105 CID	1.6 Ltr. 109 CID	1.6 Ltr. 97 CID

Tires And Wheels (Standard)

Tires	Size (load range, ply)	P155/80 R13(L&LS) P175/70 R13(GL)	185/60 R14 (GTI)
	Type (bias, radial, etc.)	Radial	
	Initiation pressure (cold) for recommended max. vehicle load — Front (kPa (psi))	186 (27)	
	Initiation pressure (cold) for recommended max. vehicle load — Rear (kPa (psi))	214 (31)	
	Rev/mile—at 70 km/h (45 mph)	918 / 918	922
Wheels	Type & material	Disc/Steel	
	Rim (size & flange type)	4.5x13 / 6.0x14 Alloy (GTI)	
	Wheel offset	45 (1.77)	
	Attachment — Type (bolt or stud)	Bolt	
	Attachment — Circle diameter	100 (3.9)	
	Attachment — Number & size	Four (4) M12x1.5mm	
Spare	Tire and wheel (same, if other describe)	Same	
	Storage position & location (describe)	Flat/in trunk well below mat (rubber or cloth)	

Tires And Wheels (Optional)

Size (load range, ply)	P175/70 R13 BSW/WSW (L&LS)
Type (bias, radial, etc.)	Radial
Wheel (type & material)	Steel or Light Alloy
Rim (size, flange type and offset)	5.0J 45mm (N/A L)
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 Lever
Location of control		Floor Between Seats
Operates on		Mechanical- Application at rear wheel drums.
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

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Car Line RABBIT

Model Year 1983 Issued 6-30-82 Revised (*)

Body Type And/Or Engine Displacement	1.7 Ltr. 105 CID	1.8 Ltr. 109 CID	1.6 Ltr. 97 CID

Brakes – Service

Description				
Brake type (std., opt., n.a.)		Front (disc or drum)		Disc
		Rear (disc or drum)		Drum
Self-adjusting (std., opt., n.a.)				Std.
Special valving	Type (proportion, delay, metering, other)			Constant pressure proportioning; Dual diagonal brake circuits.
Power brake (std., opt., n.a.)				Std.
Booster type (remote, integral, vac., hyd., etc.)				Integral Vacuum
Anti-skid device type (std., opt., n.a.)				N/A
Effective area (cm^2 (in^2))*				225.6 (35.0)
Gross lining area (cm^2 (in^2))**				254.5 (39.5)
Swept area (cm^2 (in^2))***				1462 (226.6)
Rotor	Outer working diameter		F	239 (9.4)
			R	–
	Inner working diameter		F	146 (5.7)
			R	–
	Thickness		F	12 (0.47)
			R	
	Material & type (vented, solid)		F	Cast Iron - Solid
			R	–
Drum	Diameter (nominal)		F	180 (7.1)
			R	
	Type and material			Cast Iron
Wheel cylinder bore	Front			48 (2.0)
	Rear			17.5 (0.7)
Master cylinder	Bore			21.0 (0.8)
	Stroke			15 (0.6)
Pedal arc ratio				4.8 : 1
Line pressure at 445 N (100 lb) pedal load (kPa (psi))				Front: 13.8 (2000)--- Rear: 6.9 (1000)
Lining clearance per shoe	Front			0.15 (0.006)
	Rear			0.15 (0.006)
Brake lining	Front wheel	Bonded or riveted (rivets, seg.)		Bonded
		Rivet size		
		Manufacturer		Abex/U.S.
		Lining code		720GG
		Material		Semi-Metalic
		**** Primary or out-board		129.0x36.0x12.0 (5.1x1.4x0.5)
		Size Secondary or in-board		111.0x36.0x12.0 (4.4x1.4x0.5)
		Shoe thickness (inc. lining)		4.8 (0.19)
	Rear wheel	Bonded or riveted (rivets, seg.)		Riveted/8
		Manufacturer		Abx/A6
		Lining code		ABPA 553
		Material		Semi-Metalic
		**** Primary or out-board		134.0x 29.8x5.4 (5.3x1.2x0.2)
		Size Secondary or in-board		Same
		Shoe thickness (inc. lining)		2.5 (0.1)

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

*** Total swept area of all drum 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 (3.1) for each brake.)

**** Refer to Drum brakes, adjusted weight x thickness.

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Car Line RABBIT

Model Year 6-30-82 Issued _____ Revised (*) 9-1-82

Body Type And/Or Engine Displacement	1.7 Ltr. 105 CID	1.8 Ltr. 109 CID	1.6 Ltr. 97 CID

Steering

Manual (std., opt., n.a.)					Std
Power (std., opt., n.a.)					Std. (GL) Opt. all others N.A. w/SNA-1
Adjustable steering wheel (tilt, swing, other)		Type and description			N/A
		(Std., opt., n.a.)			-
Wheel diameter		Manual			381 (15.0)
		Power			381 (15.0)
Turning diameter m (ft.)	Outside front	Wall to wall (l & r)			10.3 (33.8)
		Curb to curb (l & r)			9.5 (31.2)
	Inside rear	Wall to wall (l & r)			
		Curb to curb (l & r)			
Manual	Gear	Type			Rack & Pinion - (Rod & Ball Joint)
		Make			
		Ratios	Gear		
			Overall		20.8:1
	No. wheel turns (stop to stop)				3.9
Power	Type (coaxial, linkage, etc.)				Rack and Pinion Type (Rod and Ball Joint)
	Make				TRW
	Gear	Type			
		Ratios	Gear		
			Overall		18.5:1
	Pump (drive)				Crankshaft
	No. wheel turns (stop to stop)				3.3
Linkage	Type				Rack and Pinion Type (Rod and Ball Joint)
	Location (front or rear of wheels, other)				Rear
	Drag links (trans. or longit.)				None
	Tie rods (one or two)				Two
Steering axis	Inclination at camber (deg.)				
	Bearings (type)	Upper			Ball Bearing
		Lower			Ball Joint
		Thrust			
Steering spindle & joint type					
Wheel spindle	Diameter	Inner bearing			
		Outer bearing			
	Thread (size)				
	Bearing (type)				

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Body Type And/Or Engine Displacement	1.7 Ltr. 105 CID	1.8 Ltr. 109 CID	1.6 Ltr. 97 CID

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+1°50' ±30'
		Camber (deg.)	+20' ±30'
		Toe-in [outside track-mm (in.)]	-15' (-10' to -15')
	Service reset*	Caster	Same
		Camber	Same
		Toe-in	Same
	Periodic M.V. inspection	Caster	—
		Camber	—
		Toe-in	—
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-1°15' ±35'
		Toe-in [outside track-mm (in.)]	+20' ±30'
	Service reset*	Camber	Same
		Toe-in	Same
	Periodic M.V. inspection	Camber	—
		Toe-in	—

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

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Body Type And/Or Engine Displacement	1.7 Ltr. 105 CID	1.8 Ltr. 109 CID	1.6 Ltr. 97 CID

Suspension — General

Car leveling	Std./opt./n.a.	N/A
	Type (air, hyd., etc.)	—
	Manual/auto. controlled	—
Provision for brake dip control		Suspension Geometry
Provision for acc/ squat control		Suspension Geometry
Special provisions for car jacking		Sill jacking: Scissors type jack-- 4 jack points 2 at each side, fore and aft with notch locators.
Shock absorber (front & rear)	Type	MacPherson Strut -Front and Hydraulic - Rear
	Make	
	Piston diameter	
Other special features		

Suspension — Front

Type and description		Independent, MacPherson Struts and Coil Springs. Negative Scrub Radius. (Stabilizer Bar on GTI.)		
Travel	Full jounce	72 (2.83)		
	Full rebound	85 (3.35)		
Spring	Type (coil, leaf, other)	Coil		
	Material	Alloy Spring Steel		
	Size (coil design height & i.d., bar length x dia.)	203.5, 111.5ø 2506 to 2723x 11.22 to 12.34ø	203.5, 111.5ø 2518 x 11.83ø	203.5, 111.5ø 2506 to 2723 x 11.22 to 12.34ø
	Spring rate (N/mm (lb/in.))	15.3-19.9(87-114)	18.6 (106)	15.3-19.9(87-114)
	Rate at wheel (N/mm (lb/in.))	13.0-17-6(74-101)	16.3 (93)	13.0-17-6(74-101)
Stabilizer	Type (link, linkless, frameless)	None	Linkless	None
	Material & bar diameter	None	Alv. Spg. Stl.	None

Suspension — Rear

Type and description		Independent stabilizer Axle with coil springs mounted on shockabsorber struts(stabilizer bars(GTI		
Drive and torque taken through		None (FWD)		
Travel	Full jounce	120 (4.72)		
	Full rebound	68 (2.68)		
Spring	Type (coil, leaf, other)	Coil		
	Material	Alloy Spring Steel		
	Size (length x width, coil design height & i.d., bar length & dia.)	265,75,2790x9.58 (10.4,2.95,110x 0.38)	2 65,75,2804x10.0 (10.4,2.95,110x 0.39)	265,75,2790x9.58 10.4,2.95,110x 0.38)
	Spring rate (N/mm (lb/in.))	15.1 (86)	17.7 (101)	15.1 (86)
	Rate at wheel (N/mm (lb/in.))	14.4 (82)	17.0 (97)	15.1 (82)
	Mounting insulation (type)	Rubber		
	Leaf: No. of leaves	—		
	Leaf: Shackle (comp. or tens.)	—		
Stabilizer	Type (link, linkless, frameless)	None	Linkless	None
	Material & bar diameter	None	Alv. Spg. Stl.	None
Track bar (type)		None		

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Car Line RABBIT
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Body Type	2-Door	4-Door

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)			Acrylic Enamel
Hood	Hinge location (front, rear)		Rear Corners
	Type (counterbalance, prop)		None (Rod Support)
	Release control (internal, external)		Internal
Trunk lid	Type (counterbalance, other)		One Gas Pressurized Strut
	Internal release control (elec., mech., n.a.)		None (External Key Release)
Bumper front	Bar material & mass (wt.)		Anodized Aluminum
	Reinforcement material & mass (wt.)		
Bumper rear	Bar material & mass (wt.)		Anodized Aluminum
	Reinforcement material & mass (wt.)		
Vent window control (crank, friction, pivot, power)		Front	Friction Pivot
		Rear	N/A
Seat cushion type		Front	Bucket- Molded Urethane
		Rear	Bench- Molded Urethane
		3rd seat	-
Seat back type		Front	Bucket- Molded Urethane
		Rear	Bench- Molded Urethane
		3rd seat	-
Vehicle ident. no. location			Left front corner of Instrument Panel

Passive Restraint System

Inflatable restraint system	Standard/ optional	N/A
	Type of charging system	-
	Location (stg whl., instru. panel, other)	-
Passive seat belts	Standard/ optional	Optional
	Power/ manual	Manual
	2 or 3 point	Two
	Knee bar/ lap belt	Knee Bar

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized Body/Chassis--Bolt on Front Fenders

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Body Type	2- Door	4-Door

Convenience Equipment

Power windows	Side windows	N/A
	Vent windows	N/A
	Backlight or tailgate	N/A
Power seats (specify type as well as availability)		N/A
Reclining front seat back (r-l or both)		Both
Radio (specify type as well as availability)		OPTIONAL: AM/FM Monaural AM/FM Stereo AM/FM Stereo Cassette w/Manual or Digital Tun
Premium sound system (specify)		
Rear seat speaker		Dual rear with stereo (Optional)
Power antenna		N/A
Clock (Quartz)		Std. (in Instr. Pnl.) all except GTI (Console)
Air conditioner (specify type)		Opt.
Speed warning device		N/A
Speed control device		N/A
Ignition lock lamp		N/A
Dome lamp		Std.
Glove compartment lamp		Std. (N.A. "L")
Luggage compartment lamp		Std. (N.A. "L")
Underhood lamp		
Courtesy lamp		N/A
Map lamp		N/A
Cornering lamp		N/A
Rear window defroster electrically heated		Std.
Rear window defogger		N/A
T-bar roof (describe)		N/A
Sun roof (describe)		Mechanical- Sliding (Opt all except L)
Tinted Glass		Std.
Vent Windows		Opt.
Heater-Heavy Duty		Opt (All) ; Std. (Canadian Rabbit)
Rr. Wdo.Wipe/Wash		Std. (GL&GTI) Opt. (L&LS)
Floor Mats (F&R)		Opt
Theft Protection		Std.--Locking Steering Coluum,inside hood release, and Key left in .ignition - Signal.

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Passenger Car

Car Line RABBIT
Model Year 1983 Issued 6-30-82 Revised (•) _____

FEATURE HIGHLIGHTS

(Manufacturers selected list of special vehicle features; indicate if new or model year introduced)

BODY:

CHASSIS:

ENGINE:

NEW: 1.6 Liter, 4 Cyl., Water Cooled Turbo Diesel

NEW: 1.8 Liter, 4 Cyl., Water Cooled, Fuel Injected, High Performance Engine with Close Ratio 5-Speed Manual Transmission.

NEW: 4-Speed Manual Transmission SNA-1 (Inertia Benifit Clutch. Available only with Diesel Engine.)

ELECTRICAL:

OTHER:

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Car Line RABBIT

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Model	Vehicle Mass (weight)							
	CURB MASS, kg (weight, lb)*			PASS MASS DISTRIBUTION				SHIPPING MASS, kg (weight, lb)**
				Pass In Front		Pass In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
RABBIT "L" (1.7 Ltr. Carb. w/M4								
2 Dr. Hatchback	547 (1206)	307 (677)	854 (1883)					
4 Dr. Hatchback	552 (1217)	318 (701)	870 (1918)					
RABBIT "L" 1.7 Ltr. F.I. w/M4								
2 Dr. Hatchback	563 (1241)	307 (677)	870 (1918)					
4 Dr. Hatchback	568 (1252)	318 (701)	886 (1954)					
RABBIT "LS" 1.7 Ltr. F.I. w/M4								
2 Dr. Hatchback	565 (1246)	307 (677)	872 (1923)					
4 Dr. Hatchback	570 (1257)	318 (701)	888 (1958)					
RABBIT "GL" 1.7 Ltr. F.I. w/M 5								
2 Dr. Hatchback	591 (1303)	322 (710)	913 (2013)					
4 Dr. Hatchback	598 (1319)	336 (741)	934 (2059)					
RABBIT "GTI" 1.8 Ltr. F.I. w/M5								
2 Dr. Hatchback	584 (1288)	314 (692)	898 (1990)					

* Reference — SAE J1[illegible]8a, Motor vehicle dimensions, curb weight definition.

** Shipping mass (weight) definition —

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	Optional Equipment Differential Mass (weight)*			
Equipment	MASS kg. (weight, lb)			Remarks
	Front	Rear	Total	
1.6 T-Diesel over 1.6 Diesel	13.00 (28.66)	0 (0)	13.00 (28.66)	M-355
1.6 Diesel over 1.7 FI	8.00 (17.64)	1.00 (2.20)	9.00 (19.84)	M-222
1.7 Carb. under 1.7 FI	-16.0 (-35.3)	0 (0)	-16.0 (-35.3)	M-965
Cal. FI Gas Emissions	0	0	0	M-027
Cal. Diesel Emissions	0	0	0	M-978
M-5 Trans over M-4	9.0 (19.8)	0 (0)	9.0 (19.8)	M-481
A-3 Trans over M-4	26.5 (58.4)	3.0 (6.6)	29.5 (65.2)	M-249
Sun Roof (Sliding)	6.0 (13.2)	9.0 (19.8)	15.0 (33.0)	M-560
Hvy. Dty. Heater	1.74 (3.8)	0.35 (0.8)	2.0 (4.6)	M-635
Rr. Wdo. Wipe/Wash	-1.0 (-2.2)	4.0 (8.8)	3.0 (6.6)	M-425
Light Alloy Wheels	-2.50 (-5.5)	-3.66 (-8.1)	-6.16 (-13.6)	M-415
Air Conditioning(Gas Eng.)	36.0 (79.38)	-1.0 (-6.61)	35.0 (72.77)	
Power Steering	7.98 (17.6)	0 (00	7.98 (17.6)	M-657
65Amp. Alternator	0.24 (0.53)	0 (0)	0.24 (0.53)	M-619
Engine Pre-Heater	0.25 (0.55)	0 (0)	0.25 (0.55)	M-963
Floor Mats Frt. & Rr.	2.25 (17.6	2.25 (0)	4.50 (17.6)	M-968
Air Conditioning(Diesel)	27.0 (59.5)	-2.0 (-4.41)	25.0 (55.1)	

* Also see Engine — General Section for pressed engine mass (weight)

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Car Line Rabbit
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Equipment	Optional Equipment Differential Mass (weight)* MASS kg (weight lb) Front	Rear	Total	Remarks
Passive Restraints	2.58	0.50	3.08	M-044
	(5.7)	(1.1)	(6.8)	
175/70 R13 BSW Stl. Blt.	1.60	2.40	4.00	M-164
	(3.5)	(5.3)	(8.8)	
175/70 R13 WSW Stl. Blt.	1.9	2.9	4.8	M-174
	(4.19)	(6.39)	(10.58)	
Radio Prep Pkg.	0.24	0.60	0.84	M-433
2-Speakers Front	(0.53)	(1.32)	(1.85)	
Dual Rear Speakers	0	0.64	0.64	M-494
	(0)	(1.14)	(1.14)	
AM/FM Radio (Monaural)	1.20	0.40	1.60	R-10
	(2.6)	(0.9	(3.5)	
AM/FM Stereo Radio w/Bal-	1.50	0.50	2.0	R-20
ance control	(3.30)	(1.17)	(4.41)	
AM/FM Stereo Radio w/	1.61	0.53	2.14	R-30 & R-35
Cassette — Manual/Digital	(3.55)	(1.17)	(4.72)	
Tuning				
Hvy. Dty. Package	2.31	0	2.31	Z- (U.S. Diesel w/SNA-1 Trans.)
	(5.09)	(0)	(5.09)	

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

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METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.
SAE Ref. no. refers to the definition published in SAE Recommended Practice.
J1100a "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	2-Door				4-Door	
		L	LS	GL	GTI	LS	GL
Width							
Tread (front)	W101		1385 (54.5)		1371		
Tread (rear)	W102		1359 (53.5)				
Vehicle width	W103		1610 (63.4)				
Body width at SgRP (front)	W117		1551 (61.1)				
Vehicle width (front doors open)	W120		3595 (141.5)			3157 (124.3)	
Vehicle width (rear doors open)	W121		N/A			3153 (124.1)	
Length							
Wheelbase	L101		2400 (94.5)				
Vehicle length	L103		3945 (155.3)**				
Overhang (front)	L104		860 (33.9)				
Overhang (rear)	L105		728 (28.7)				
Upper structure length	L123		2577 (101.5)				
Rear wheel C/L "X" coordinate	L127		2404 (94.6)				
Cowl point "X" coordinate	L125		302 (11.9)				
Height*							
Passenger distribution (frt/rear)	PD1,2,3		2/2				
Trunk/cargo load							
Vehicle height	H101		1352 (53.2)			1344 (52.9)	
Cowl point to ground	H114		882 (34.7)			896 (35.3)	
Deck point to ground	H136		831 (32.7)			836 (32.9)	
Rocker panel-front to ground	H112		204 (8.0)			215 (8.5)	
Bottom of door closed-front to grd	H133		256 (10.1)			273 (10.7)	
Rocker panel-rear to ground	H111		170 (6.7)			181 (7.1)	
Bottom of door closed-rear to grd	H135		N/A			267 (10.5)	
Ground Clearance*							
Front bumper to ground	H102		355 (14.0)			370 (14.6)	
Rear bumper to ground	H104		275 (10.8)			296 (11.7)	
Bumper to ground (front at curb mass (wt.))	H103		380 (15.0)			395 (15.6)	
Bumper to ground (rear at curb mass (wt.))	H105		369 (14.5)			390 (15.4)	
Angle of approach	H106		25.5°				
Angle of departure	H107		24.5°				
Ramp breakover angle	H147						
Rear axle differential to ground	H153						
Min. running ground clearance	H156		117 (4.6)				
Location of min. run. grd clear.			Rear axle				

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds).

* 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.

** With front and rear bumper guards, where applicable: 4046 (159.3)

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Car Line RABBIT

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METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	2-Door				4-Door	
		L	LS	GL	GTI	LS	GL
Front Compartment							
Sg RP front, "X" coordinate	L31		1221 (48.1)				
Effective head room	H61		945 (37.2)				
Max. eff. leg room (accelerator)	L34		983 (38.7)				
Sg RP (front to heel)	H30		289 (11.4)				
Design H-point front travel	L17		216 (8.5)				
Shoulder room	W3		1321 (52.0)				
Hip room	W5		1326 (52.2)				
Upper body opening to ground	H50		1310 (51.6)				
Steering wheel angle	H18		26°				
Back angle	L40		23°				14°
Rear Compartment							
Sg RP Point couple distance	L50		746 (29.4)			766 (30.2)	
Effective head room	H63		917 (36.1)				
Min. effective leg room	L51		818 (32.2)				
Sg RP (second to heel)	H31		490 (19.3)				
Knee clearance	L48						
Compartment room	L3		705 (27.8)			703 (27.7)	
Shoulder room	W4		1326 (52.2)			1303 (51.3)	
Hip room	W6		1255 (49.4)			1224 (48.2)	
Upper body opening to ground	H51		1308 (51.5)				
Luggage Compartment							
Usable luggage capacity (L (cu. ft.))	V1	–					
Liftover height	H195		620 (24.4)				

All linear dimensions are in millimeters (inches).

MVMA Specifications Form
Passenger Car

Car Line RABBIT

Model Year 1983 Issued 6-30-82 Revised (• 09-01-82

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	2-Door	4-Door
Station Wagon — Third Seat		Not Available	
Shoulder room	W85		
Hip room	W86		
Effective leg room	L86		
Effective head room	H86		
Effective T-point head room	H89		
Seat facing direction	SD1		
Station Wagon — Cargo Space		Not Available	
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		
Hatchback — Cargo Space		OPENING: Height - 1316 (51.8); Width - 648 (25.5	
Front seat back to load floor height	H197	488 (19.2)	
Cargo length at front seat back height	L208	1290 (50.8)	
Cargo length at floor (front)	L209	1070 (42.1)	
Cargo volume index (m^3/(ft^3))	V3	0.66^3 (23.3^3)--- Behind rear seat: 0.40^3 (14.1^3)	
Hidden cargo volume (m^3/(ft^3))	V4	N/A	

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

All dimensions are in millimeters (inches).

MVMA Specifications Form
Passenger Car

Car Line RABBIT

Model Year 1983 Issued 6-30-82 Revised (*)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	2-Door	4-Door

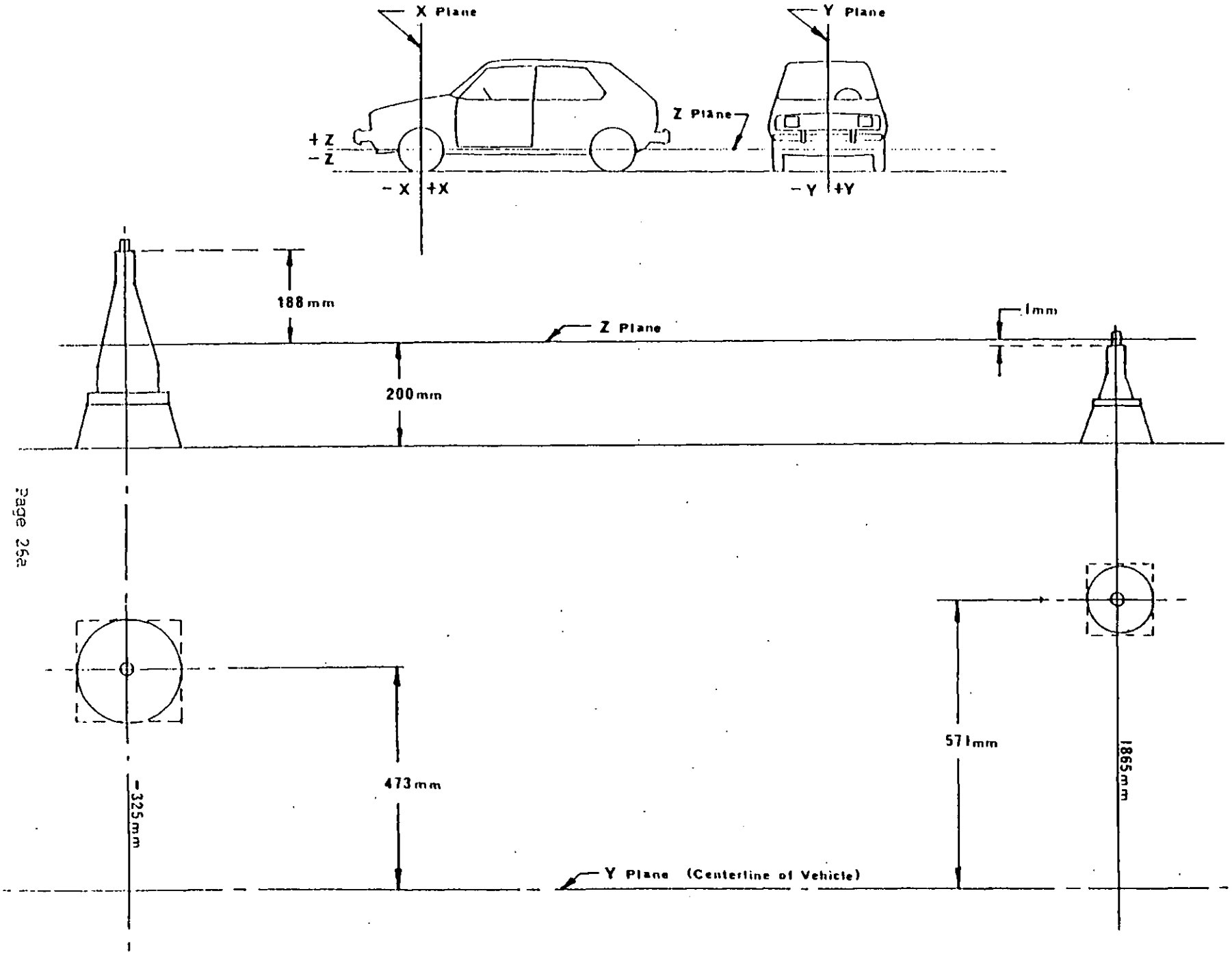
Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
Front	SEE PAGE 26a
Rear	

Fiducial Mark Number	
Front	W21
	L54
	H81
	H161
	H163
Rear	W22
	L55
	H82
	H162
	H164

* Reference – SAE Recommended Practice, J182a Motor Vehicle Fiducial Marks – September 1973

All linear dimensions are in millimeters (inches)


X Plane
Y Plane
Z Plane
+Z
-Z
-X
+X
-Y
+Y
188mm
Z Plane
1mm
200mm
325mm
473mm
571mm
1865mm
Y Plane (Centerline of Vehicle)

MVMA Specifications Form
Passenger Car

Car Line RABBIT

Model Year 1983 Issued 6-30-82 Revised (*)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	2-Door	4-Door
Glass			
Backlight slope angle (deg.)	H121	47^{o}	
Windshield slope angle (deg.)	H122	51^{o}	
Tumble-Home (deg.)	W122		
Windshield glass exposed surface area (cm^2/in^2)	S1	7226^2 (1120^2)	
Side glass exposed surface area (cm^2/in^2)	S2		
Backlight glass exposed surface area (cm^2/in^2)	S3		
Total glass exposed surface area (cm^2/in^2)	S4	24066^2 (3730^2)	23040^2 (3571^2)
Windshield glass (type)		Laminated	
Side glass (type)		Tempered	
Backlight glass (type)		Tempered	

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	651.3 (25.6)
		Lowest	–
	Taillamp (H129)	Highest**	673.0 (26.5)
		Lowest	665.5 (26.2)
	Sidemarker	Front	651.3 (25.6)
		Rear	668.0 (26.3)
Distance from C.L. of car to center of bulb	Headlamp	Inside	–
		Outside**	507.0 (19.9)
	Taillamp	Inside	306.0 (12.0)
		Outside**	509.0 (20.0)
	Directional	Front	672.0 (26.5)
		Rear	608.5 (24.0)
Headlamp shape			Rectangular

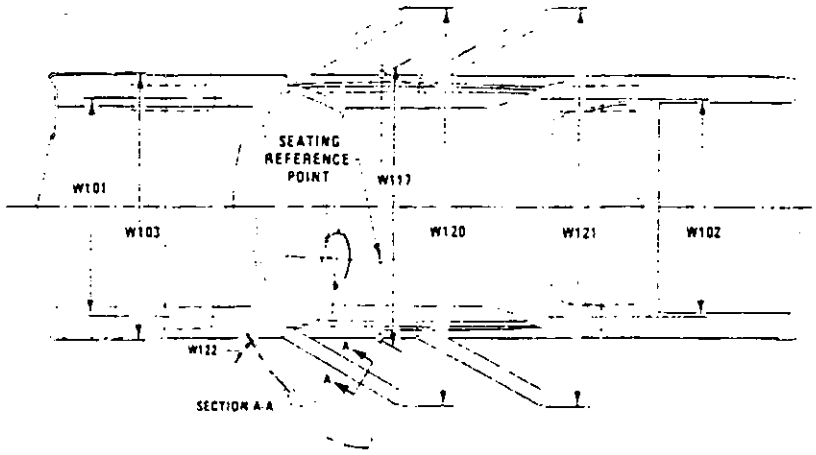
* Measured at curb mass (weight)

** If single lamps are used, enter here

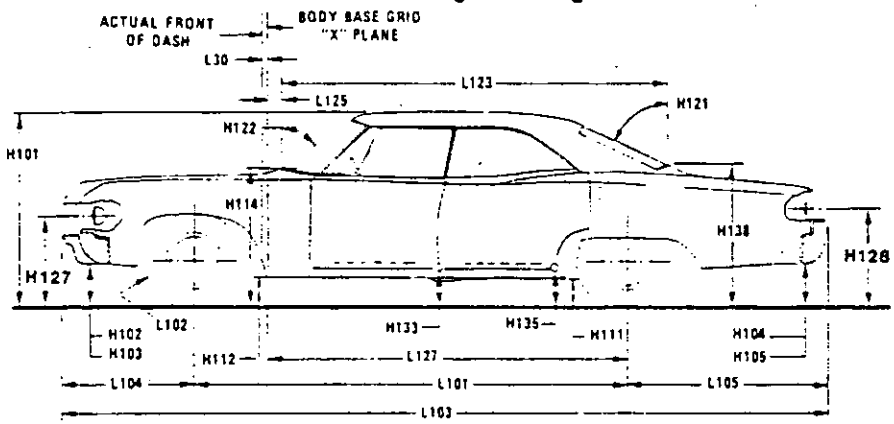
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions — Key Sheet

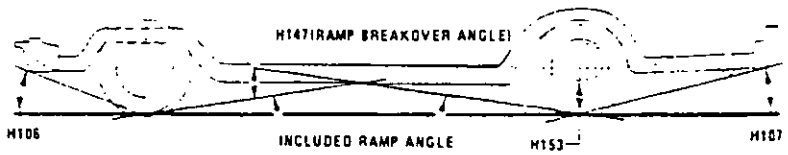
Exterior Width



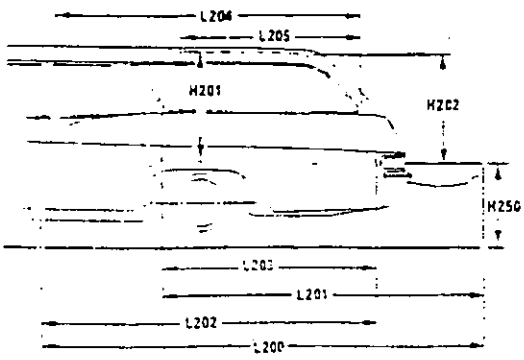
Exterior Length & Height



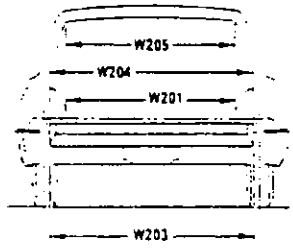
Exterior Ground Clearance

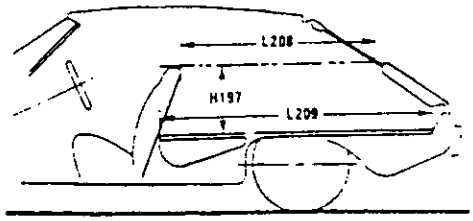


Cargo Space



Station Wagon



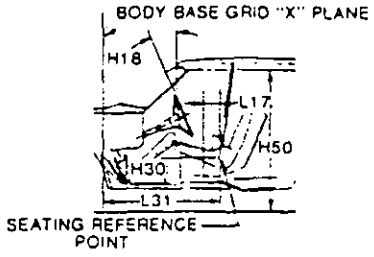


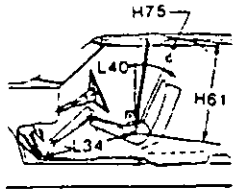
Hatchback

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

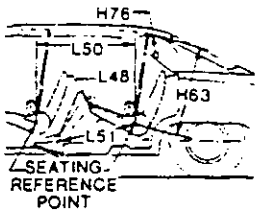
Interior Car And Body Dimensions – Key Sheet

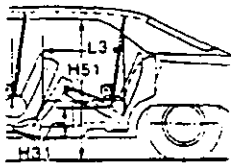
Front Compartment



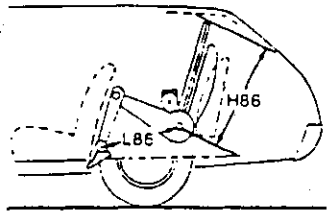


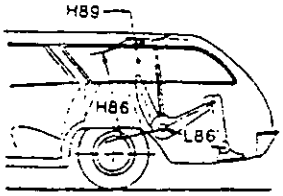
Rear Compartment

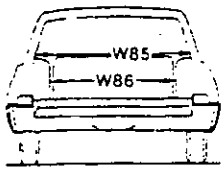




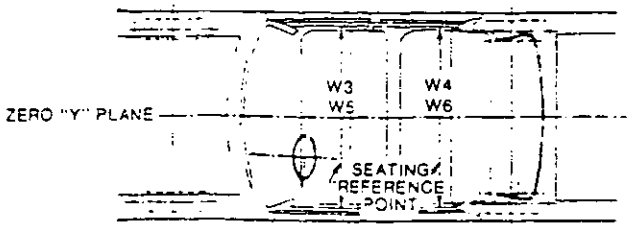
Third Seat







Interior Width



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, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962

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.

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 applique.

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

L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash is forward of the zero "X" plane

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

L102 TIRE SIZE. As specified by the manufacturer.

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.

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines

L125 COWL POINT "X" COORDINATE.

Height Dimensions

H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

H114 COWL POINT TO GROUND. Measured at zero "Y" plane.

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

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.

H132 BOTTOM OF DOOR OPEN—FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, 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

H134 BOTTOM OF DOOR OPEN—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open 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.

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 are 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 dimensional 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.

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

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METRIC (U.S. Customary)

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Interior Car And Body Dimensions – Key Sheet
Dimensions Definitions

H103 FRONT BUMPER TO GROUND CURB MASS (WT.) Measured in the same manner as H104

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 are 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 are the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.

H147 REAR 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.

Front Compartment Dimensions

PD1 PASSENGER DISTRIBUTION—FRONT.

L31 SgRP—FRONT "X" COORDINATED.

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.)

H75 EFFECTIVE T-POINT HEAD ROOM—FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).

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.

H30 SgRP—FRONT TO HEEL. The dimension measured vertically from the SgRP—front to the accelerator heel point.

L17 DESIGN H-POINT—FRONT TRAVEL. The dimension measured horizontally between the design H-point—front in the foremost and rearmost seat trace positions.

W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within the belt line and 254 mm (10.0 in.) above the SgRP—front.

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 the SgRP—front.

H150 UPPER BODY OPENING TO GROUND—FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP—front "X" plane

H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel

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.

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION—SECOND

L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP—front to 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.).

H76 EFFECTIVE T-POINT HEAD ROOM—SECOND. Measured in the same manner as H75.

L51 MINIMUM EFFECTIVE LEG ROOM—SECOND. The dimension measured along a line from the ankle pivot center to the SgRP—second plus 254 mm (10.0 in.)

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

L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.)

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

W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP—second within 254-406 mm (10.0-16.0 in.) above the SgRP—second.

W6 HIP ROOM—SECOND. Measured in the same manner as W5

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.

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.

Station Wagon – Third Seat Dimensions

PD3 PASSENGER DIRECTION—THIRD

W85 SHOULDER ROOM—THIRD. Measured in the same manner as W5

W86 HIP ROOM—THIRD. Measured in the same manner as W5

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.)

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.)

H89 EFFECTIVE T-POINT HEAD ROOM—THIRD. Measured in the same manner as H75

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Interior Car And Body Dimensions — Key Sheet
Dimensions Definitions

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 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 tailcoor 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 tailcoor 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 back panel 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 the sheet metal

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

H201 CARGO HEIGHT The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane

H202 REAR OPENING HEIGHT The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open

H250 TAILGATE TO GROUND (CURB MASS WT.) The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

V2 STATION WAGON

Measured in inches:

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

Measured in mm:

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

V4 HIDDEN CARGO VOLUME. As specified by the manufacturer

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).

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

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

V3 HATCHBACK

Measured in inches:

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

Measured in mm:

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