MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1986

Manufacturer	Car Line	
VOLKSWAGEN OF AMERICA, Inc.	GOLF & GOLF DIESEL	
Mailing Address 888 West Big Beaver Road P.O. Box 3951 Troy, Michigan 48007-3951	Issued 8/1/85	Revised 10/1/85

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

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. This specification form was developed by the automobile manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.

Blank Forms Provided by Technical Affairs Division

MVMA

Motor Vehicle Manufacturers Association
of the United States, Inc.

MVMA Specifications Form
Passenger Car

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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 GOLF
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Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load–Kilograms (Pounds)
GOLF DIESEL 2 Door		176292	2/3	123.8 (273)
GOLF DIESEL 4 Door		178292	2/3	103.8 (229)
GOLF 2 Door		176342	2/3	124.7 (275)
GOLF 2 Door		176343	2/3	96.9 (213)
GOLF 4 Door		178342	2/3	104.7 (231)
GOLF 4 Door		178343	2/3	76.6 (169)

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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					Exhaust S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	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.)			
Standard on these models: 176292 178292	1.6 (97) O.H.C.	Diesel	23.0	40 (52) @ 4800	95 (68) @ 2500		M5	3.94 3.94
Standard on these models: 176342 176343 178342 178343	1.8 (109) O.H.C.	F.I.	9.0	66 (85) @ 5250	137 (96) @ 3000		M5 A3 M5 A3	3.67 3.12 3.67 3.12

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Engine Description/Carb. Engine Code	1.6 Liter Diesel	1.8 Liter F.I. Gas

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)		Inline, water cooled, front mounted and transverse	
Manufacturer		Volkswagen	
No. of cylinders		4	
Bore		76.5 (3.012)	81.0 (3.198)
Stroke		86.4 (3.40)	
Bore spacing (C/L to C/L)		88.2 (3.47)	
Cylinder block material & mass kg (lbs.)		Cast Iron	
Cylinder block deck height		220 (8.66)	
Deck clearance (minimum) (above or below block)			
Cylinder head material & mass kg (lbs.)		Aluminum Alloy	
Cylinder head volume (cm^3)			
Head gasket thickness (compressed)			
Minimum combustion chamber total volume (cm^3)			
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4	
	R. Bank		
Firing order		1-3-4-2	
Intake manifold material & mass [kg (weight, lbs.)]			
Exhaust manifold material & mass [kg (weight, lbs.)]			
Recommended fuel (leaded, unleaded, diesel)		No. 2 Diesel	Unleaded
Fuel antiknock index (R + M) / 2			
Total dressed engine mass (wt) dry**			

Engine – Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum Alloy w/lead coating --- 452 (15.9)

Engine – Camshaft

Location		Overhead
Material & mass kg (weight, lbs.)		Iron
Drive type	Chain / belt	Spur Belt
	Width / 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

Hydraulic lifters (std., opt., NA)		Hydraulic (Standard)
Valves	Number intake / exhaust	
	Head O.D. intake / exhaust	

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]	Forged Steel - 2 pieces 691.9 gms. (1.52)

Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]		Forged Steel
End thrust taken by bearing (no.)		Three (3)
Number of main bearings		Five (5)
Seal (material, one, two piece design, etc.)	Front	
	Rear	

Engine – Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	0.5 Bar (7.25psi)	0.2 Bar (2.9 psi)
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full Flow	
Capacity of c/case, less filter-refill-L (qt.)	4.0 (4.2)	

Engine – Diesel Information

Diesel engine manufacturer		Volkswagen
Glow plug, current drain at 0°F		60 amp (Steady State)
Injector nozzle	Type	
	Opening pressure [kPa (psi)]	13000 - 13800 (1800 - 2000)
Pre-chamber design		Swirl Port
Fuel injection pump	Manufacturer	Bosch
	Type	Injection
Fuel injection pump drive (belt, chain, gear)		Mechanical, Distributor injection
Supplementary vacuum source (type)		Vacuum Pump - Gear Driven
Fuel heater (yes/no)		No
Water separator, description (std., opt.)		Intergral w/fuel filter - Standard
Turbo manufacturer		-
Oil cooler-type (oil to engine coolant; oil to ambient air)		-
Oil filter		-

Engine – Intake System

Turbo charger - manufacturer	-
Super charger - manufacturer	-
Charge cooler	-

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Engine – Cooling System

Coolant recovery system (std., opt., n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle	
Radiator cap relief valve pressure [kPa (psi)]		103-138 (15-20)	
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	Integral ball	
	Impeller material	-	
	Housing material	-	
By-pass recirculation [type (inter,. ext.)]		-	
Cooling system capacity	With heater–L(qt.)	6.9 (7.3)	
	With air cond.–L(qt.)	same	
	Opt. equipment [specify–L(qt.)]	-	
Water jackets full length of cyl. (yes, no)		No	
Water all around cylinder (yes, no)		No	
Water jackets open at head face (yes, no)		No	
Radiator core	Std., A/C, HD	Standard	
	Type (cross-flow, etc.)	Cross Flow	
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube	
	Material, mass [kg (wgt, lbs.)]	Aluminum	
	Width	675 (26.6)	525 (20.7)
	Height	322 (12.7)	
	Thickness	42.0 (1.65)	
	Fins per inch	-	
Radiator end tank material			
Fan	Std., elec., opt.	Electric	
	Number of blades & type (flex, solid, material)	4 Flexible polyproplene	
	Diameter & projected width	280 (11.0)	
	Ratio (fan to crankshaft rev.)	N.A.	
	Fan cutout type	Electric Motor	
	Drive type (direct, remote)	Remote	
	RPM at idle (elec.)	-	
	Motor rating (wattage) (elec.)	200/250 w/AC	100/200 w/AC
	Motor switch (type & location) (elec.)	Thermo - Left side of radiator	
	Switch point (temp., pressure) (elec.)	ON: 93 to 98°C OFF: 88 to 93°C	
	Fan shroud (material)	Steel	

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

Induction type: carburetor, fuel injection system, etc.				
Carburetor	Mfgr.			
	Choke (type)			
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual		
		Automatic		
Idle A/F mix.			n.a.	0.75 ± 0.45 CO
Fuel injection	Point of injection (no.)		Swirl Chamber	Port
	Constant, pulse, flow		Pulse	Constant
	Control (electronic, mech.)		Electro-Hdraulic	
	System pressure [kPa (psi)]			4.5-5.2 Bars (64-74)
Intake manifold heat control (exhaust or water thermostatic or fixed)			None	
Air cleaner type	Standard		Paper Element	
	Optional		None	
Fuel pump	Type (elec. or mech.)		Vacuum Boost Mechanical	Electric
	Location (eng., tank)		Left side of engine	Ahead of tank
	Pressure range [kPa (psi)] *		750 (109)	500 (72.5)

Fuel Tank

Capacity [refill L (gallons)]		55 (14.5)
Location (describe)		Under floor forward of rear wheels
Attachment		3 - Straps
Material & Mass [kg (weight lbs)]		Plastic
Filler pipe	Location & material	Integrated Plastic
	Connection to tank	Molded
Fuel line (material)		Terne Steel
Fuel hose (material)		Flexible Rubber
Return line (material)		Terne Steel
Vapor line (material)		Nylon
Extended range tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
	Selector switch or valve	
	Separate fill	

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air injection, Exhaust Gas Recirculation, Oxygen sensing, Catalytic Converter	
	Air Injection	Pump or pulse	Pump	-
		Driven by	Belt	-
		Air distribution (head, manifold, etc.)		-
		Point of entry		-
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)		Vacuum Amplified Control
		Exhaust source		Exhaust Manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)		Intake Manifold
	Catalytic Converter	Type	-	3-way
		Number of	-	one
		Location(s)	-	Under Floor
		Volume [L (in³)]	-	1.25 (76)
		Substrate type	-	Monolith
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Closed Induction System	
	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	Atmosphere	Canister
		Carburetor	N.A.	
	Vapor storage provision		N.A.	Canister
Electronic system	Closed loop (yes/no)		N.A.	yes
	Open loop (yes/no)		N.A.	no

Engine – Exhaust System

Type (single, single with cross-over, dual, other)		Single	
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		One Reverse Flow	
Resonator no. & type		None	
Exhaust pipe	Branch o.d., wall thickness		
	Main o.d., wall thickness	41.2 x 1.8	41.4 x 1.8
	Material & Mass [kg (weight lbs)]	Aluminum Coated Alloy	Stainless Steel
Intermediate pipe	o.d. & wall thickness	41.2 x 1.8	41.2 x 1.8
	Material & Mass [kg (weight lbs)]	Aluminum Ti.	Aluminum Coated Steel
Tail pipe	o.d. & wall thickness	41.2 x 1.5	41.5 x 1.5
	Material & Mass [kg (weight lbs)]	Aluminum Coated Steel	

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Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	–	
Manual 4-speed (std., opt., n.a.) (mfr.)	–	
Manual 5-speed (std., opt., n.a.) (mfr.)	Standard	
Manual overdrive (std., opt., n.a.) (mfr.)	–	
Automatic (std., opt., n.a.) (mfr.)	N.A.	Optional
Automatic overdrive (std., opt., n.a.) (mfr.)	–	

Manual Transmission/Transaxle

Number of forward speeds			5-Speed
Transmission ratios	In first		3.45:1
	In second		1.94:1
	In third		1.37:1
	In fourth		1.03:1
	In fifth		0.75:1
	In overdrive		–
	In reverse		3.17:1
Synchronous meshing (specify gears)			All Forward Gears
Shift lever location			Floor
Lubricant	Capacity [L (pt.)]		2.0 (4.2)
	Type recommended		Hypoid Mil-L2105; API/GL-4
	SAE viscosity number	Summer	SAE 80W; SAE 80/90W
		Winter	Same
		Extreme cold	Same

Clutch (Manual Transmission)

Make, type, engagement (describe) – (hydraulic, cable, rod)			Single Plate - Dry
Assist (yes, no / percent)			No
Type pressure plate springs			–
Total spring load [N (lb.)]			3700-4200 (832-944)
No. of clutch driven discs			One
Clutch facing	Material		Woven Asbestos
	Manufacturer		Fichel & Sachs/Luk
	Part number		–
	Rivets/plate		16/–
	Rivet size		9.5 (0.374)
	Outside & inside dia.	200 x 134 (8.00 x 5.27)	210 x 144 (8.25 x 5.67)
	Total eff. area [cm^2($in.^2$)]		346 (53.67)
	Thickness		3.25 (0.128)
	Engagement cushion method		Wave Spring Segments
Release bearing	Type & method of lubrication		Ball Thrust - Lubed by oil from the Transmission
Torsional damping	Method: springs, friction material		Coil Springs w/fibre washer

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Engine Description/Carb. Engine Code	1.8 Liter F.I. Gas

Automatic Transmission/Transaxle

Trade name		
Type and special features (describe)		
Selector	Location	Floor
	Ltr./No. designation	P-R-N-D-2-1
Gear ratios	R	2.46:1
	D	1.00:1
	L_3	-
	L_2	1.50:1
	L_1	2.71:1
Max. upshift speed - drive range [km/h (mph)]		
Max. kickdown speed - drive range [km/h (mph)]		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/Dexron II ATF
Oil cooler (std., opt., NA, internal, external, air, liquid)		

Axle or Front Wheel Drive Unit

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

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

Axle ratio (or overall top gear ratio)				
No. of teeth	Pinion			
	Ring gear or gear			
Ring gear o.d.				
Transaxle	Transfer gear ratio			
	Final drive ratio	3.12:1	3.67:1	3.94:1

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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 thick-ness	Manual transmission		Left	Length: 443 (17.44)
			Right	Length: 677.2 (26.66)
	Automatic transmission		Left	Same
			Right	Same
	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 81 (3.187) O.D.
			Outer	Constant Velocity 94 (3.687) O.D.
	Attach (u-bolt, clamp, etc.)			Clamp
	Bearing	Type (plain, anti-friction)		Ball Bearing
		Lubrication (fitting, prepack)		Prepack
Drive taken through (torque tube, arms or springs)				Engine Mounts
Torque taken through (torque tube, arms or springs)				

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Body Type And/Or Engine Displacement	1.6 Liter Diesel	1.8 Liter F.I. Gas

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 accl. squat control		Suspension Geometry
Provisions for car jacking		Sill Jacking - 4 Jack Points, 2 each side, fore and aft with notch locators in lower sill panel
Shock absorber (front & rear)	Type	Telescopic
	Make	
	Piston diameter	34 (1.33)
	Rod diameter	11 (0.43)

Suspension – Front

Type and description		Independent MacPherson Struts with Coil Springs
Drive and torque taken through		Lower Control Arms
Travel	Full jounce	72 (2.38)
	Full rebound	85 (3.35)
Spring	Type (coil, leaf, other) & material	Coil - Alloy Spring Steel
	Insulators (type & material)	
	Size (coil design height & i.d., bar length x dia.)	342.8 x 113.5 I.D. x 12.67ø Fuel Injected w/o AC 360 x 113.5 I.D. x 12.67ø Diesel & F.I. w/AC
	Spring rate [N/mm (lb./in.)]	
	Rate at wheel [N/mm (lb./in.)]	
Stabilizer	Type (link, linkless, frameless)	Link with rubber bushing joint attached to control arms
	Material & bar diameter	18 (0.708) Alloy Spring Steel

Suspension – Rear

Type and description			Independent Stabilizer Axle
Drive and torque taken through			-
Travel	Full jounce		120 (4.72)
	Full rebound		68 (2.68)
Spring	Type (coil, leaf, other) & material		Coil - Alloy Spring Steel
	Size (length x width, coil design height & i.d., bar length & dia.)		3.48 x 88.5 x 9.6ø (13.70 x 3.48 x 0.37ø)
	Spring rate [N/mm (lb./in.)]		
	Rate at wheel [N/mm (lb./in.)]		
	Insulators (type & material)		
	If leaf	No. of leaves	
		Shackle (comp. or tens.)	
Stabilizer	Type (link, linkless, frameless)		Link
	Material & bar diameter		Alloy Spring Steel
Track bar (type)			None

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Body Type And/Or Engine Displacement	2 - Door	4 - Door

Brakes - Service

Description				Dual diagonal circuit system (Hydraulic)
Brake type (std., opt., n.a.)			Front (disc or drum)	Solid Disc
			Rear (disc or drum)	Drum
Self-adjusting (std., opt., n.a.)				Standard
Special valving	Type (proportion, delay, metering, other)			2 - Constant pressure valves attached to the booster/ Master cylinder
Power brake (std., opt., n.a.)				Standard
Booster type (remote, integral, vac., hyd., etc.)				Intergral Vacuum
Vacuum source (inline, pump, etc.)				Pump
Vacuum reservoir (volume in.^{3})				9"
Vacuum pump-type (elec, gear driven, belt driven, if other so state)				Gear Driven
Anti-skid device type (std., opt., n.a..) (F/R)				N.A.
Effective area [cm^2(in.^{2})]*				-
Gross lining area [cm^2(in.^{2})]**(F/R)				-
Swept area [cm^2(in.^{2})]***(F/R)				-
Rotor	Outerworking diameter		F/R	239 (9.40
	Inner working diameter		F/R	146 (5.7)
	Thickness		F/R	12 (o.47)
	Material & type (vented/solid)		F/R	Cast Iron - Solid
Drum	Diameter & width		F/R	180 (7.1
	Type and material		F/R	Cast Iron
Wheel cylinder bore				-
Master cylinder	Bore/stroke		F/R	21 (0.8)/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			F/R	0.15 (0.006)
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Bonded
		Rivet size		-
		Manufacturer		Abex/US
		Lining code*****		720 GG
		Material		Semi-metalic
		****	Primary or out-board	-
		Size	Secondary or in-board	-
		Shoe thickness (no lining)		4.8 (0.19)
	Rear wheel	Bonded or riveted (rivets/seg.)		Rivited/8
		Manufacturer		Abex/A6
		Lining Code*****		ABPA 553
		Material		Semi-metallic
		****	Primary or out-board	-
		Size	Secondary or in-board	-
		Shoe thickness (no lining)		2.5 (0.1)

*Excludes rivet holes,grooves, chamfers, etc.
**Includes rivet holes, grooves, chamfers, etc.
***Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
(Disc brake: Square of Outer Working Dia.minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)
****Size for drum brakes includes length x width x thickness.
*****Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

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Body Type And/Or Engine Displacement	1.6 Liter Diesel	1.8 Liter F.I. Gas

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P155/80 SR13	P175/70 SR13
	Type (bias, radial, etc.)		Steel Belted Radial	
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	200 (29)	221 (32)
		Rear [kPa (psi)]	241 (35)	241 (35)
	Rev./mile–at 70 km/h (45 mph)		918	
Wheels	Type & material		Steel	
	Rim (size & flange type)		5 J x 13	5.5 J x 13
	Wheel offset		45 (1.77)	38 (1.49)
	Attachment	Type (bolt or stud)	Bolt	
		Circle diameter	100 (3.9)	
		Number & size	Four (4) M12 x 1.5	
Spare	Tire and wheel (same, if other describe)		Temporary Space Saver	
	Storage position & location (describe)		Flat in Trunk well, below mat	

Tires And Wheels (Optional)

Size (load range, ply)	P175/70 SR13	N.A.
Type (bias, radial, etc.)	Steel Belted Radial	"
Wheel (type & material)	Steel	"
Rim (size, flange type and offset)	5.5 J x 13	"
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 (Grip handle)
Location of control		Floor, between seats
Operates on		Mechanical - application at rear wheels
If separate from service brakes	Type (internal or external)	-
	Drum diameter	-
	Lining size (length x width x thickness)	-

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•) _____

Body Type And/Or Engine Displacement	1.6 Liter Diesel	1.8 Liter F.I. Gas

Steering

Manual (std., opt., n.a.)					Standard
Power (std., opt., n.a.)					Optional
Adjustable steering wheel (tilt, swing, other)		Type and description			N.A.
		(Std., opt., n.a.)			-
Wheel diameter (W9) SAE J1100		Manual			381 (15.0)
		Power			Same
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)			-
		Curb to curb (l. & r.)			10.5 (34.45)
	Inside rear	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
Scrub Radius*					
Manual	Gear	Type			Maintenance Free Rack & Pinion
		Make			
		Ratios	Gear		
			Overall		20.8:1
	No. wheel turns (stop to stop)				3.8
Power	Type (coaxial, linkage, etc.)				Rack & Pinion
	Make				TRW
	Gear	Type			Hydraulic
		Ratios	Gear		
			Overall		17.5:1
	Pump (drive)				V-belt drive off crankshaft
	No. wheel turns (stop to stop)				3.17
Linkage	Type				Rod & Ball Joint
	Location (front or rear of wheels, other)				Rear of front wheels
	Tie rods (one or two)				Two (Right side adjustable)
Steering axis	Inclination at camber (deg.)				
	Bearings (type)	Upper			Ball Bearing
		Lower			Ball Joint
		Thrust			Ball Bearing
Steering spindle & joint type					Strut with lower ball
Wheel spindle	Diameter	Inner bearing			
		Outer bearing			
	Thread (size)				
	Bearing (type)				Tapered Roller Bearing

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•) _____

Body Type And/Or Engine Displacement	2 - Door	4 - Door

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	$+1^{o}$ 30' $\pm$30'
		Camber (deg.)	-24' $\pm$20'
		Toe-in [outside track-mm (in.)]	0^{o} $\pm$10'
	Service reset*	Caster	-
		Camber	-
		Toe-in	-
	Periodic M.V. inspection	Caster	-
		Camber	-
		Toe-in	-
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-1^{o} 40' $\pm$20'
		Toe-in [outside track-mm (in.)]	+25' -15
	Service reset*	Camber	-
		Toe-in	-
	Periodic M.V. inspection	Camber	-
		Toe-in	-

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

Electrical – Instruments and Equipment

Speedometer	Type	Pointer
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		Instrument panel light - every 30000 miles
Charge indicator	Type	Light
	Warning device	-
Temperature indicator	Type	Gauge
	Warning device	Light
Oil pressure indicator	Type	Light
	Warning device	Audibile Buzzer
Fuel indicator	Type	Gauge
	Warning device	-
Windshield wiper	Type (standard)	Electric 2-speed & Intermitient wipe
	Type (optional)	-
	Blade length	406.4 (16.0)
	Swept area [cm^2($in.^2$)]	
Windshield washer	Type (standard)	Electric
	Type (optional)	-
	Fluid level indicator	Translucent Container (Under Hood)
Horn	Type	Dual Tone
	Number used	One
Other		OPTIONAL: Rear window washer/wiper — continuous by manually holding up detent — push down detent: 2 to 3 sweeps

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•) _____

Engine Description/Carb. Engine Code	2 - Door	4 - Door

Electrical – Supply System

Battery	Make	Varta	
	Model, std., (opt.)	Standard	
	Voltage	12	
	Amps at 0°F cold crank	63	54/63 w/AC
	Minutes-reserve capacity		
	Amp/hrs. - 20 hr. rate		
	Location	Engine Compartment	
Generator or alternator	Type and rating	14V - 65amp.	
	Ratio (alt. crank/rev.)	-	
	Optional (type & rating)	90amp w/AC	
Regulator	Type	Integral	

Electrical – Starting System

Start. motor	Current drain at 0°F	515w	800w (Auto) 950w (5spd)
Motor drive	Engagement type	solenoid	
	Pinion engages from (front, rear)	Front	

Electrical – Ignition System

Type	Electronic (std., opt., n.a.)		Standard	
	Other (specify)		Compression	Digital w/knock sensor
Coil	Make		Bosch	
	Model			
	Current	Engine stopped – A		
		Engine idling – A		
Spark plug	Make		N.A.	BOSCH BERU CHAMPION
	Model			14L-W7DT 14L-7DT N 281 BY
	Thread (mm)			14
	Tightening torque [N-m (lb, ft)]			30 (22)
	Gap			0.7 (0.028)
	Number per cylinder			One
Distributor	Make			
	Model			

Electrical – Suppression

Locations & type	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•) _____

Body Type	2 - Door	4 - Door

Body

Structure	Unitized body/chassis with bolt on front fenders
Bumper system front - rear	Steel w/semi-rigid urethane fascia
Anti-corrosion treatment	A factory applied wax based protective coating to all engine compartment panels, flanges, cavities, seams, and the entire body shell. Also the front and rear axle assemblies and engine and transmission surfaces have been treated.

Body – Miscellaneous Information

Type of finish (lacquer, enamel, other)		Acrylic Enamel
Hood	Hinge location (front, rear)	Rear corners
	Type (counterbalance, prop)	Rod support
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	-
	Internal release control (elec., mech., n.a.)	-
Hatch-back lid	Type (counterbalance, other)	One pressurized gas spring
	Internal release control (elec., mech., n.a.)	N.A.
Vent window control (crank, friction, pivot, power)	Front	Pivot w/friction lock
	Rear	
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Bucket w/foam over rigid wire frame
	Rear	Bench w/foam over rigid wire frame
	3rd seat	-
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Bucket w/foam over rigid wire frame
	Rear	Bench w/foam over rigid wire frame
	3rd seat	-
		Optional: Asymmetricallty divided fold and tumble rear seats.

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

Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•)

Body Type	2 - Door	4 - Door

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	Type 2, Dual sensitive, continuous loop
	Location	Front & rear outboard positions - Static rear center lap
Passive seat belts	Standard/optional	Optional - F.I. models only
	Power/manual	Manual - attached to door
	2 or 3 point	2 - point
	Knee bar/lap belt	Kneebar

Frame

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

Glass	SAE 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)		Tempered (tinted)

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

Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•)

Body Type	2 - Door Diesel	2 & 4 Door F.I. Gas

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

Air conditioning (manual, auto. temp control)		Manual - Optional all models	
Clock (digital, analog)		Analog	Digital
Compass / thermometer		-	
Console (floor, overhead)		Std. Mini-console Floor	Center console floor - Std.
Defroster, elec. backlight		Standard	
Electronic	Diagnostic warning (integrated, individual)	-	
	Instrument cluster (list instruments)	Speedometer, Warning lights & Clock	
	Keyless entry	N.A.	
	Tripminder (avg. spd., fuel)	N.A.	
	Voice alert (list items)	N.A.	
	Other		
Fuel door lock (remote, key, electric)		Key locking cap - Standard all models	
Lamps	Auto head on / off delay, dimming	-	
	Cornering	Standard	
	Courtesy (map, reading)	Standard	
	Door lock, ignition	Ignition Standard	
	Engine compartment	N.A.	
	Fog	N.A.	
	Glove compartment	Standard	
	Trunk	Standard	
	Other		
Mirrors	Day/night (auto. man.)	Manual Standard	
	L.H. (remote, power, heated)	Remote Standard	
	R. H. (convex, remote, power, heated)	N.A.	Remote Standard
	Visor vanity (RH / LH, illuminated)	Non-illuminated - Standard	
Parking brake-auto release (warning light)		Warning Light - Standard	
Power equipment	Door locks / deck lid - specify	Central door locking - Optional w/Pwr. Wdo's & Mirrors	
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	Manual reclining front seats	
	Side windows	Optional	
	Vent windows	-	
	Rear window	-	
Radio systems	Antenna (location, whip, w/shield, power)	Fixed - L.H. Fender	
	AM, FM, stero, tape, CB	AM/FM Stereo and AM/FM Stereo w/cassette tape player	
	Speaker (number, location) Premium sound	4 - speakers /two front and two rear	
Roof open air/fixed (flip-up, sliding, "T")		Manual sun roof - sliding/self storing (req's Hgt adj seat	
Speed control device		-	
Speed warning device (light, buzzer,etc.)		-	
Tachometer (rpm)		N.A.	Standard
Theft protection-type		STANDARD: Locking steering column, inside hood release, key left in ignition signal, lockable glovebox and locking gas cap.	

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

See Key Sheets for definitions

Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•) 10/1/85

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.

	SAE Ref. No.	2 - Door	4 - Door
Body Type			
Width			
• Tread (front)	W101		1415 (55.7)
• Trear (rear)	W102		1408 (55.4)
• Vehicle width	W103		1664 (65.5)
Body width at Sg 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		2471 (97.3)
• Vehicle length	L103		4022 (158.3)
• Overhang (front)	L104		819 (32.2)
• Overhang (rear)	L105		732 (28.8)
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*			
Passenger distribution (front/rear)	PD1,2,3		
Trunk/cargo load			
• Vehicle height	H101		1382 (54.4)
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		16.8°
• Angle of departure (degrees)	H107		22.2°
Ramp breakover angle (degrees)	H147		
Axle differential to ground (front rear)	H153		
• Min. running ground clearance	H156		117 (4.6)
Location of min. run. grd. clear.			

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

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

See Key Sheets for definitions

Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•) 10/1/85

Body Type	SAE Ref. No.	2 - Door	4 - Door

Station Wagon – Third Seat

Sg RP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Sg RP to heel point	H87	
Knee clearance	L87	
Seat facing direction	SD1	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

Station Wagon – Cargo Space

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
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	0.864 (30.5)
Hidden cargo volume [m^3($ft.^3$)]	V4	
• Cargo volume index-rear of 2-seat (M^3)	V11	0.499 (17.6)

Aerodynamics*

Wheel lip to ground, front	
Wheel lip to ground, rear	
• Frontal area [m^2(ft^2)]	1.88 (20.3)
Drag coefficient (Cd)	0.35

* EPA Loaded Vehicle Weight, Loading Conditions

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

See Key Sheets for definitions

Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•) 10/1/85

Body Type	SAE Ref. No.	2 - Door	4 - Door

Front Compartment

Sg RP front, "X" coordinate	L31	1259 (49.6)
• Effective head room	H61	967 (38.1)
• Max. eff. leg room (accelerator)	L34	1004 (39.5)
SgRP to heel point	H30	275 (10.8)
SgRP to heel point	L53	
Back angle	L40	24°
Hip angle	L42	
Knee angle	L44	
Foot angle	L46	
Design H-point front travel	L17	
Normal driving & riding seat track trvl.	L23	
Shoulder room	W3	1355 (53.3)
• Hip room	W5	1312 (51.6)
Upper body opening to ground	H50	
Steering wheel maximum diameter	W9	
Steering wheel angle	H18	
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	761 (30.2)
Effective head room	H63	952 (37.5)
• Min. effective leg room	L51	873 (34.4)
Sg RP (second to heel)	H31	323 (12.7)
Knee clearance	L48	
Compartment room	L3	
Shoulder room	W4	1355 (53.3)
• Hip room	W6	1324 (52.1)
Upper body opening to ground	H51	
Back angle	L41	
Hip angle	L43	
Knee angle	L45	
Foot angle	L47	
Headlining to roof panel (second)	H38	
Depressed floor covering thickness	H73	

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	
Liftover height	H195	

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		Compact	
Interior volume index (cu. ft.)		104.3	
Trunk/cargo index (cu. ft.)		17.9	17.6

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

Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•) 10/1/85

Body Type	2 - Door	4 - Door

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
Front	Two front gage holes are located on the lower side of each longitudinal member.
Rear	The rear gage holes are located in the support structure forward of the rear axle mounting.

Fiducial Mark Number		
Front	W21	-555 (-21.8)
	L54	390 (15.4)
	H81	-56 (-2.2)
	H161	
	H163	
Rear	W22	-626 (-24.6)
	L55	2900 (114.2)
	H82	53 (2.1)
	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 GOLF
Model Year 1986 Issued 8/1/85 Revised (•) _____

Body Type	2 - Door	4 - Door

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	
		Lowest	
	Taillamp (SAE - H128)	Highest**	
		Lowest	
	Sidemarker	Front	
		Rear	
Distance from C L of car to center of bulb	Headlamp	Inside	
		Outside**	
	Taillamp	Inside	
		Outside**	
	Directional	Front	
		Rear	
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.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line GOLF

Model Year 1986 Issued 8/1/85 Revised (•) _____

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	
2 - Doors								
Model # 176292 Diesel 5spd	612	369	981					942
176342 F.I, 5spd	593	376	969					928
176343 F.I, Aut.	626	365	991					952
4 Doors								
Model # 178292 Diesel 5spd	620	388	1008					969
178342 F.I, 5spd	601	395	996					957
178343 F.I, Aut.	634	384	1018					979

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

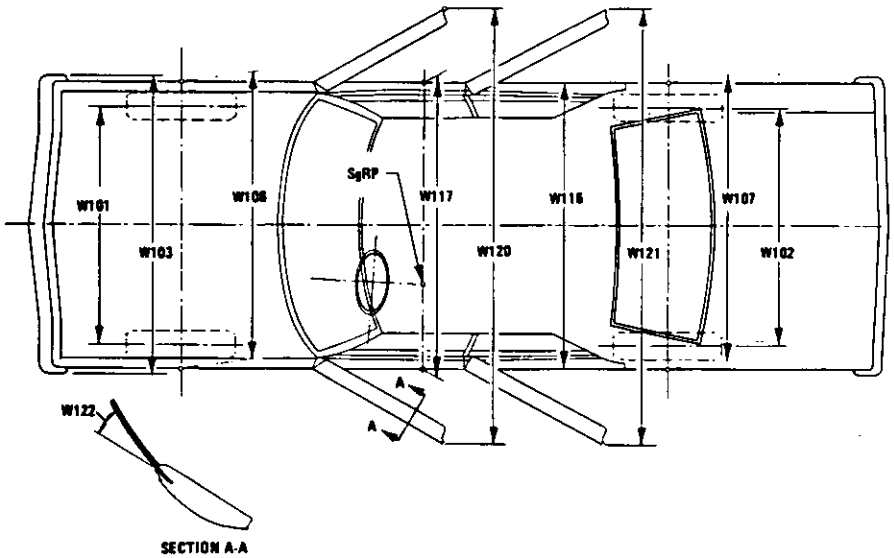
Car Line GOLF
Model Year 1986 Issued 8/1/85 Revised (•) _____

Optional Equipment Differential Mass (weight)*

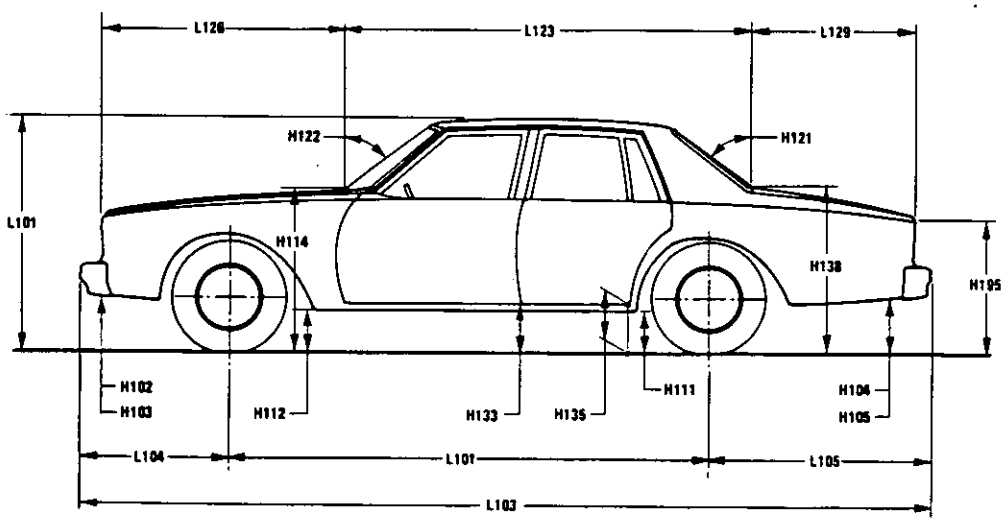
Equipment	MASS, kg. (weight, lb.) Front	Rear	Total	Remarks
Calif. Compliance Equip.	0	0	0	M-027
Passive Restraint System	2.6	0.5	3.1	M-044
	(5.7)	(1.1)	(6.8)	
P175/70 SR13 S/blt. BSW (4)	1.9	1.9	3.8	M-164 (Opt. on Diesel models only)
with space saver spare	(4.2)	(4.2)	(8.4)	
1.6 Ltr. Diesel Engine	(1.0)	0	(1.0)	M-222
	(2.2)	0	(2.2)	
A-3 Automatic Transmission	17.0	3.0	20.0	M-249 plus Power Steering on F.I.
	(37.5)	(6.6)	(44.1)	gas models only
Central Locking System	0.05	0.45	0.45	M-341 (w/Pwr Opt. Pkg only)
(2-Door)	(0.1)	(1.0)	(1.1)	
(4-Door)	0.06	0.54	0.60	
	(0.1)	(1.2)	(1.3)	
Cruise Control	1.2	0	1.2	M-352
	(2.6)	0	(2.6)	
Rear Window Wipe & Wash	-1.0	4.0	3.0	M-425
	(-2.2)	(8.0)	(6.6)	
AM/FM Stereo Cassette-Digit	1.85	1.13	2.98	M-472
	(4.1)	(2.5)	(6.6)	
Light Alloy Wheels 5½J x 13	- 1.0	- 1.0	- 2.0	M-497
	(-2.2)	(-2.2	(-4.4)	
Sunroof w/deflector	5.0	7.0	12.0	M-560 (req's Hgt Adj Driver Seat)
	(11.0)	(15.4)	(26.4)	
Air Conditioning	30.0	-3.0	27.0	M-573
	(66.1)	(-6.6)	(59.5)	
63 Amp/hr Battery	5.0	-.3o	4.7	M-597 (Std. w/diesel engine)
	(11.0)	(-0.7)	(10.3)	
Heavy Duty Heater	1.74	0.35	2.09	M-635 (N.A. w/AC)
	(3.8)	(0.8)	(4.6)	
Power Windows (2-Door)	1.50	1.50	3.0	M-651 (Req'd w/pwr Opt. Pkg.)
	(3.3)	(3.3)	(6.6)	
(4-Door)	3.0	3.0	6.0	M-651 (Req'd w/pwr. Opt. Pkg.)
	(6.6)	(6.6)	(13.2)	
Height Adjustable Dr. Seat	1.26	1.0	2.26	M-656 (Req'd w/sunroof)
	(2.8)	(2.2)	(5.0)	
Power Steering	8.0	0	8.0	M-657 (Req'd w/A-3 Transmission)
	(17.6)	0	(17.6)	
Split rear seat	0	0.91	0.91	M-685
	0	(2.0)	(2.0)	
Heavy Duty Radiator (Alum)	2.07	0	2.07	M-925 (Std w/AC & on Diesel Engin)
	(4.6)	0	(4.6)	
Bright Wheel Covers (Full)	1.22	1.22	2.44	M-950
	(2.7)	(2.7)	(5.4)	
Engine Pre Heater	0.25	0	0.25	M-960 (Diesel Engine only)
	(0.6)	0	(0.6)	
Floor Mats Front & Rear	2.25	2.25	4.5	M-968
	(5.0)	(5.0)	(10.0)	

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

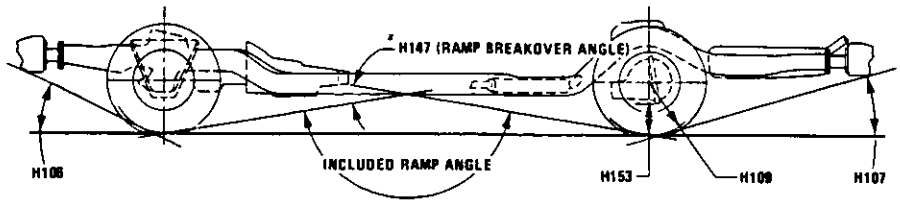
Exterior Width



Exterior Length & Height



Exterior Ground Clearance



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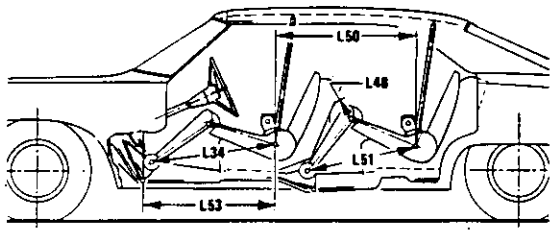
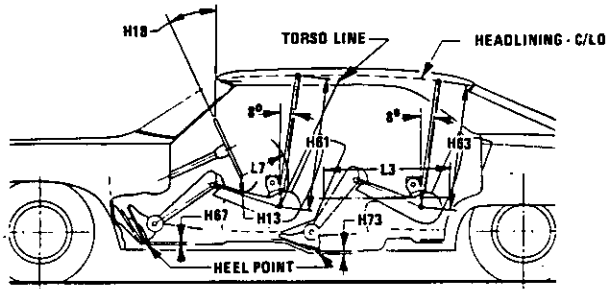
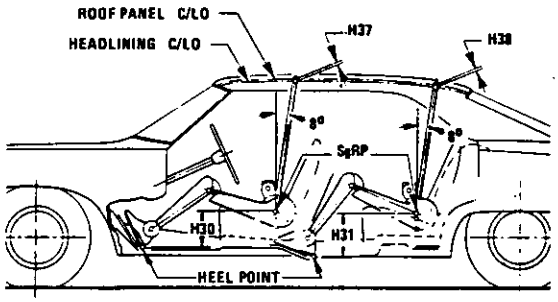
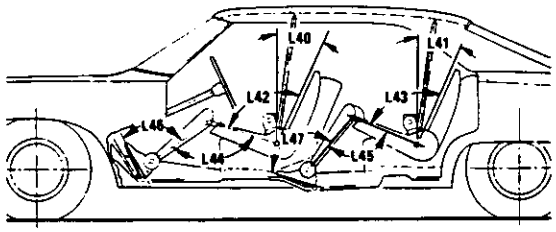
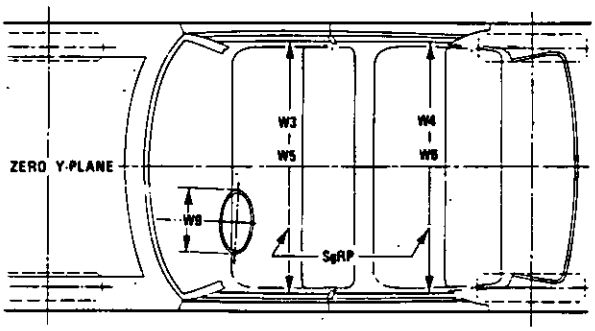
Interior Car And Body Dimensions – Key Sheet

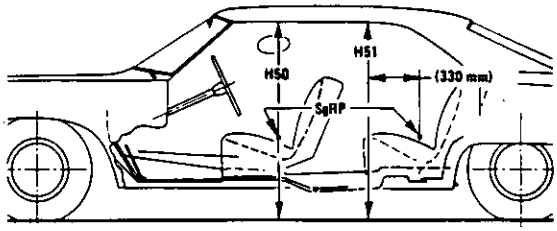






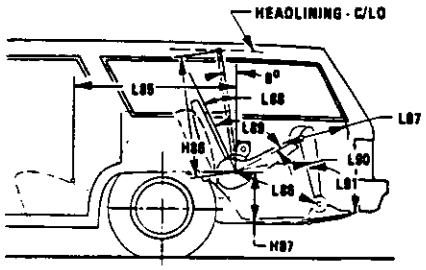


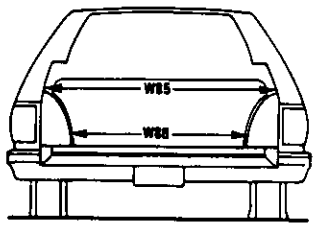




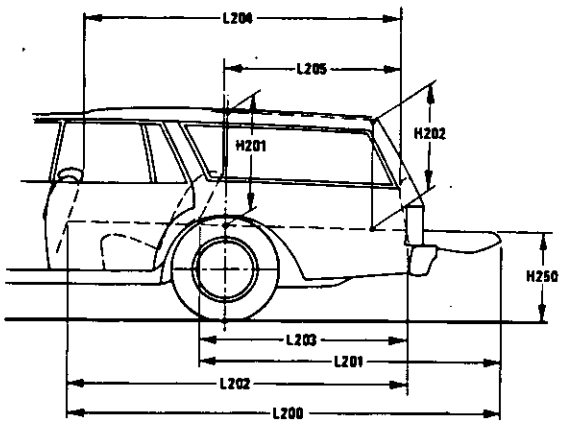
Interior Car And Body Dimensions – Key Sheet

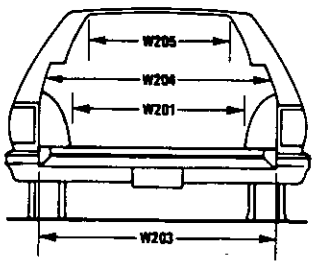
Third Seat



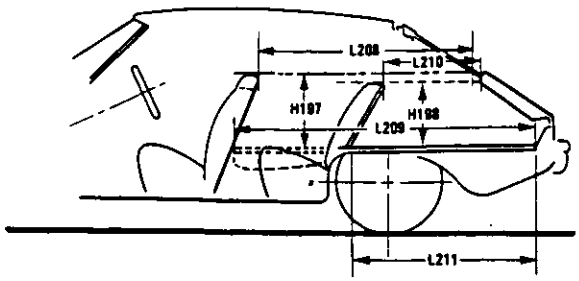


Cargo Space





Station Wagon



Hatchback

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Exterior Car And Body Dimensions – Key Sheet
Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which –

(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;

(b) Has coordinates established relative to the design vehicle structure;

(c) Simulates the position of the pivot center of the human torso and thigh; and

(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations,"

Width Dimensions

W101 TREAD–FRONT. The dimension measured between the tire centerlines at the ground.

W102 TREAD–REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.

W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.

W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.

W117 BODY WIDTH AT SgRP–FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.

W120 VEHICLE WIDTH–FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.

W121 VEHICLE WIDTH–REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.

W122 TUMBLE–HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

Length Dimensions

L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

L104 OVERHANG–FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

L105 OVERHANG–REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.

L125 COWL POINT "X" COORDINATE.

L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost point of front end contour.

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

L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

Height Dimensions

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

H111 ROCKER PANEL–REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.

H112 ROCKER PANEL–FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

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

H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.

H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in) long drawn from the lower DLO to the intersecting point on the windshield.

H127 HEADLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the lowest headlamp lens to ground.

H128 TAILLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.

H133 BOTTOM OF DOOR CLOSED–FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

H135 BOTTOM OF DOOR CLOSED–REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

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

Ground Clearance Dimensions

H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.

H103 FRONT BUMPER TO GROUND–CURB MASS (WT.). Measured in the same manner as H102.

Interior Car And Body Dimensions – Key Sheet
Dimensions Definitions

H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.

H105 REAR BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H104.

H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.

H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.

H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.

H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.

H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

Glass Areas

S1 Windshield area.

S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.

S3 Backlight areas.

S4 Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

Fiducial Mark – Number 1

L54 "X" coordinate.

W21 "Y" coordinate.

H81 "Z" coordinate.

H161 Height "Z" coordinate to ground at curb weight.

H163 Height "Z" coordinate to ground.

Fiducial Mark – Number 2

L55 "X" coordinate.

W22 "Y" coordinate.

W82 "Z" coordinate.

H162 Height "Z" coordinate to ground at curb weight.

H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.

L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.

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

L23 NORMAL DRIVING AND RIDING SEAT TRACK LEVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions.

L31 SgRP–FRONT. "X" COORDINATED.

L34 MAXIMUM EFFECTIVE LEG ROOM–ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP–front plus 254 mm (10.0 in) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.

L40 BACK ANGLE–FRONT. The angle measured between a vertical line through the SgRP–front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

L42 HIP ANGLE–FRONT. The angle measured between torso line and thigh centerline.

L44 KNEE ANGLE–FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.

L46 FOOT ANGLE–FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.

L53 SgRP–FRONT TO HEEL. The dimension measured horizontally from the SgRP–front to the accelerator heel point.

W3 SHOULDER ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front at height between the belt line and 254 mm (10.0 in.) above the SgRP–front, excluding the door assist strap and attaching parts.

W5 HIP ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP–front and 76 mm (3.0 in.) fore and aft of the SgRP–front.

W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.

H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.

H17 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP–front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.

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

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

H37 HEADLINING TO ROOF PANEL–FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.

H50 UPPER BODY OPENING TO GROUND–FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP–front "X" plane.

H61 EFFECTIVE HEAD ROOM–FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP–front to the headlining plus 102 mm (4.0 in.).

H67 FLOOR COVERING THICKNESS–UNDEPRESSED–FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

PD1 PASSENGER DISTRIBUTION–FRONT.

Rear Compartment Dimensions

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

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Interior Car And Body Dimensions – Key Sheet
Dimensions Definitions

L41 BACK ANGLE–SECOND. The angle measured between a vertical line through the SgRP – second and the torso line.

L43 HIP ANGLE–SECOND. The angle measured between torso line and thigh cenerline.

L45 KNEE ANGLE–SECOND. The angle measured between thigh centerline and lower leg centerline.

L47 FOOT ANGLE–SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).

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

L50 SgRP COUPLE DISTANCE–SECOND. The dimension measured horizontally from the driver SgRP–front to the SgRP–second.

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

W4 SHOULDER ROOM–SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP–second at height between 254-406 mm (10.0-16.0 in.) above the SgRP–second, excluding the door assist straps and attaching parts.

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

H31 SgRP–SECOND TO HEEL. The dimension measured vertically from the SgRP–second to the two dimensional device heel point on the depressed floor covering.

H38 HEADLINING TO ROOF PANEL–SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.

H51 UPPER BODY OPENING TO GROUND–SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in) forward of the SgRP–second.

H63 EFFECTIVE HEAD ROOM–SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in).

H73 FLOOR COVERING–DEPRESSED–SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

PD2 PASSENGER DISTRIBUTION–SECOND.

Luggage Compartment Dimensions

V1 USABLE LUGGAGE CAPACITY–Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100.

H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Interior Volumes (EPA Classification)

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

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

Station Wagon – Third Seat Dimensions

L85 SgRP COUPLE DISTANCE–THIRD. The dimension measured horizontally from the SgRP–second the 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. Mesured in the same manner as L41.

L89 HIP ANGLE–THIRD. Measured in the same manner as L43.

L90 KNEE ANGLE–THIRD. Measured in the same manner as L45.

L91 FOOT ANGLE–THIRD. Measured in the same manner as L47.

W85 SHOULDER ROOM–THIRD. Measured in the same manner as W4.

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

H86 EFFECTIVE HEAD ROOM–THIRD. The dimension, measured along a line 8 deg. rear from the SgRP–third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).

PD3 PASSENGER DISTRIBUTION–THIRD.

SD1 SEAT FACING DIRECTION–THIRD.

Station Wagon – Cargo Space Dimensions

L200 CARGO LENGTH–OPEN–FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.

L201 CARGO LENGTH–OPEN–SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L202 CARGO LENGTH–CLOSED–FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L203 CARGO LENGTH–CLOSED–SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L204 CARGO LENGTH AT BELT–FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.

L205 CARGO LENGTH AT BELT–SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to he foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.

W201 CARGO WIDTH–WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.

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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 undepressed floor covering.

H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed 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 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 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:

$$\frac{L506 \times W500 \times H503}{1728} = ft^3$$

Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = m^3 \text{ (cubic meter)}$$

V6 TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = ft^3$$

Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = m^3 \text{ (cubic meter)}$$

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:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = ft^3$$

Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = m^3 \text{ (cubic meter)}$$

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 undepressed floor covering.

H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seat back to the undepressed floor covering.

V3 HATCHBACK.
Measured in inches:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY–REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = ft^3$$

Measured in mm:

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

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

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