# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

**METRIC( U.S. Customary)** 

Passenger Car

1986

Manufacturer		Car Line	)		
VOLKSWAG	EN OF AMERICA, INC.		GT	I.	
Mailing Address 888 West P.O.Box	: Big Beaver Road				
	chigan 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.

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

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Motor Vehicle Manufacturers Association of the United States, Inc.

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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.

GTI Car Line \_ 1986 8/1/85 Model Year\_ Issued \_ Revised (\*)

		Car Model	ls	. <u> </u>
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)
GTI		176436	2/3	103.8 (229)
				•
			٠	9
:				
		•		

Car Line	GTI				•
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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.

SEDIES		ENGINE						
SERIES AVAILABILITY	Displ	Carb		SAE Net	at RPM	Exha	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
AVAILABILITY	Displ. Liters (in <sup>3</sup> )	Carb. (Barrels, FI, etc.)	Compr. Ratio	kW (bhp)	Torque N•m (lb. ft.)	u s t S/D		(sta. 11rst)
176436	1.8 (109) 0.H.C. Hi Perform	F.I.	10.0	77 (100) @ 5500	150 (105) @ 3000		м5	3.67
	·	•	·				·	
							•	
					ē		·	

Car Line	GTI			
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Engine Description/Cart Engine Code	<b>b.</b>	1.8 Liter F.I.				
ENGINE - GENERA	<b>NL</b>					
Type & description (inline, \) flat, location, front, mid, rea transverse, longitudinal, sol ohv, hemi, wedge, pre-cam	ır, hc, dohc,	Inline, water cooled, front transverse mounted				
Manufacturer	<del> </del>	Volkswagen				
No. of cylinders		4				
Bore		81.0 (3.198)				
Stroke		86.4 (3.40)				
Bore spacing (C/L to C/L)		88.2 (3.47)				
Cylinder block material & n	nass kg (lbs.)	Cast Iron				
Cylinder block deck height		220 (8.66)				
Deck clearance (minimum) (above or below block)	)					
Cylinder head material & m	nass kg (lbs.)	Aluminum Alloy				
Cylinder head volume (cm³)						
Head gasket thickness (compressed)						
Minimum combustion char total volume (cm³)	mber					
Cyl. no. system	L. Bank	1-2-3-4				
(front to rear)*	R Bank					

### **Engine** -- Pistons

Total dressed engine mass (wt) dry\*\*

Firing order

Recommended fuel

(leaded, unleaded, diesel) Fuel antiknock index

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

1 - 3 - 4 - 2

Unleaded

### Engine - Camshaft

Location		Overhead	
Material & mass k	g (weight, lbs.)	Iron	
Drive type	Chain / belt	Spur Belt	
Dilito typu	Width / pitch		

<sup>\*</sup> Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

R. Bank

Intake manifold material & mass [kg (weight, lbs.)] Exhaust manifold material & mass [kg (weight, lbs.)]

<sup>\*\*</sup> Dressed engine mass (weight) includes the following:

<b>MVMA</b>	Spe	cifications	<b>Form</b>
<b>Passer</b>	ıger	Car	

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Engine Description/Carb. Engine Code		1.8 Liter F.I.				
Engine –	Valve System					
Hydraulic lifte	rs (std., opt., NA)	Standard				
Valves	Number intake / exhaust					
	Head O.D. intake / exhaust					
Engine –	Connecting Rods					
Material & ma	uss [kg., (weight, lbs.)]	Forged Steel - 2 pieces, 691.9gms				
Engine –	Crankshaft					
Material & ma	uss [kg., (weight, lbs.)]	Forged Steel				
End thrust tak	en by bearing (no.)	Three (3)				
Number of ma	ain bearings	Five (5)				
Seal (materia						
design, etc.)	Rear					
Engine –	Lubrication System					
Normal oil pre	essure [kPa (psi) at engine rpm]	0.2 Bar (2.9psi)				
Type oil intak	e (floating, stationary)	Stationary				
Oil filter syste	m (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 Volkswagen				
Glow plug, cu	rrent drain at 0°F	60amp Steady State				
Injector	Туре					
nozzle	Opening pressure [kPa (psi)]	13000-13800 (1885-2000)				
Pre-chamber	_ <u></u>	Swirl Port				
Fuel in- jection pump	Manufacturer	Bosch				
	Type pump drive (belt, chain, gear)	Injection Value of the Property of the Propert				
		Mechanical - Distributor Injection  Vacuum Pump - Gear Driven				
Supplementary vacuum source (type) Fuel heater (yes/no)		No				
Water separator, description		Intergral, w/fuel filter - standard				
(std., opt.) Turbo manufacturer						
Oil cooler-type (oil to engine coolant;						
oil to ambient air)						
Oil filter  Engine -	Intake System	<u> </u>				
	···					
	r - manufacturer					
	er - manufacturer	· · · · · · · · · · · · · · · · · · ·				
Charge cooler		<u> </u>				

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Engine	Description/Carb.
Engine	Code

1.8 Liter F.I.

Coolant reco	very system (std., opt., n.a.)	Standard		
Coolant fill lo	cation (rad., bottle)	Bottle		
Radiator cap	relief valve pressure [kPa (psi)]	103-138 (15-20)		
Circulation	Type (choke, bypass)	Spring loaded engine by-pass		
hermostat	Starts to open at °C (°F)	87°C (199°F)		
	Type (centrifugal, other)	Centrifugal		
Ī	GPM 1000 pump rpm	-		
	Number of pumps	One		
<b>V</b> ater	Drive (V-belt, other)	<u>V-Belt</u>		
pump	Bearing type	Integral ball		
	Impeller material			
	Housing material	-		
By-pass reci	rculation [type (inter,, ext.)]			
Cooling	With heater-L(qt.)	6.9 (7.3)		
system	With air condL(qt.)	same		
capacity	Opt. equipment [specify-L(qt.)]			
Water jacket	s full length of cyl. (yes, no)	No		
Water all aro	und cylinder (yes, no)	No		
Waterjacket	s open at head face (yes, no)	No		
<b>—</b>	Std., A/C, HD	Standard ,		
	Type (cross-flow, etc.)	Cross Flow		
Radiator	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube		
core	Material, mass [kg (wgt, lbs.)]	Aluminum		
	Width	525 (20.7)		
	Height	322 (12.7)		
	Thickness	42.0 (1.65)		
	Fins per inch			
Radiator end	d tank material	-		
	Std., elec., opt.	Electric		
	Number of blades & type (flex, solid, material)	Flexible polyproplene (4)		
	Diameter & projected width	280 (11.0)		
	Ratio (fan to crankshaft rev.)	N.A		
Fan	Fan cutout type	Electric motor		
	Drive type (direct, remote)	Remote		
	RPM at idle (elec.)			
	Motor rating (wattage) (elec.)	100/200 w/AC		
	Motor switch (type & location) (elec.)	Thermo - left side of radiator		
	Switch point (temp., pressure) (elec.)	ON: 93-98°C OFF: 88-93°C		
ļ.	Fan shroud (material)	Steel		

Engine Description/Carb. Engine Code			1.8 Liter F.I.		
Engine -	- Fuel Systen	1 (See supp	lemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)		
Induction typinjection sys	pe: carburetor, fuel stem, etc.		Fuel injection system		
	Mfgr.				
	Choke (type)				
Carbure-	Idle spdrpm	Manual			
tor	(spec. neutral or drive and				
	propane if	Automatic			
	used)				
ldle A/F mix			0.75 <sup>-±</sup> 0.45 CO		
	Point of injectio	n (no.)	Port		
Fuel	Constant, pulse	, flow	Constant		
injection	Control (electro	nic, mech.)	Electro-Hydraulic		
	System pressur	re [kPa (psi)]	4.5-5.2 Bars (64-74)		
	fold heat control (e: rmostatic or fixed)	chaust	None		
Air cleaner	Standard	*******	Paper element		
type	Optional	•	None		
Fuel	Type (elec. or n	nech.)	Electric		
pump	Location (eng.,	tank)	Ahead of tank		
	Pressure range	[kPa (psi)]	500 (72.5)		
Fuel Tan	ık :		·		
Capacity [re	fill L (gallons)]		55 (14.5)		
Location (de	escribe)		Under floor forward of rear wheels		
Attachment			3 - straps		
Material & M	lass [kg (weight lbs	s)]	Plastic		
Filler	Location & mate	erial	Integrated plastic		
pipe	· Connection to ta	ank	Molded		
Fuel line (ma	aterial)		Terne steel		
Fuel hose (n	naterial)		Flexible Rubber		
Return line (	material)		Terne steel		
Vapor line (r	naterial)		Nylon		
C. 4	Opt., n.a.				
Extended range tank	Capacity [L (gal	lons)]			
tank .	Location & mate	erial			
	Attachment				
	Opt., n.a.				
	Capacity (L (gal	lons)]			
Auxiliary tank	Location & mate	erial			
	Attachment				
	Selector switch	or valve			

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

	Type (air inj	ection, engine ns, other)	Air injection, exhaust gas recirculation, oxygen sensing, & catalytic converter
		Pump or pulse	*
	1	Driven by	-
	Air Injection	Air distribution (head, manifold, etc.)	<b>=</b>
		Point of entry _	
Exhaust Exhaust Gas Recircula tion		Type (controlled flow, open orifice, other)	Vacuum amplified system
	Gas Recircula-	Exhaust source	Exhaust manifold
	tion	Point of exhaust injection (spacer, carburetor, manifold, other)	Intake manifold
		Туре	3 - way
		Number of	one
	Catalytic Converter	Location(s)	Under floor
		Volume [L (in <sup>3</sup> )]	1.25 (76)
		Substrate type	Monolith
Crankcase Emission		ates to atmosphere, stem, other)	Closed induction system
		rce (manifold rburetor, other)	Manifold Vacuum
	Discharges (to intake		T . 1

### Discharges (to intake manifold, other) Intake manifold Air inlet (breather cap, other) Air cleaner Vapor vented to (crankcase, canister, other) Evapora-tive Emission Control Fuel tank Canister Carburetor N.A. Vapor storage provision Canister Closed loop (yes/no) Electronic yes Open loop (yes/no) Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single	
Muffler no. ( separate re:	& type (reverse flow, straight thru, sonator) Material & Mass [kg (weight lbs)]	One reverse flow	
Resonator r	no. & type	None	
	Branch o.d., wall thickness		
Exhaust pipe	Main o.d., wall thickness	44.4 x 1.8	
	Material & Mass [kg (weight lbs)]	Stainless steel	
inter- mediate	o.d. & wall thickness	45.0 x 1.8	
pipe	Material & Mass [kg (weight lbs)]	Aluminum coated steel	
Tail pipe	o.d. & wall thickness	50.0 x 1.8	
	Material & Mass [kg (weight lbs)]	Aluminum coated steel	

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		٠					
Engine Description/Carb. Engine Code			1.8 Liter F.I.				
Transmis	sions/Tra	nsaxle					
Manual 3-spe	ed (std., opt.,	n.a.) (mfr.)	N.A.				
Manual 4-spe	ed (std., opt.,	n.a.) (mfr.)	N.A				
Manual 5-spe	ed (std., opt.,	n.a.) (mfr.)	Standard (Close ratio)				
Manual overd	rive (std., opt.	, n.a.) (mfr.)	N.A.				
Automatic (st	d., opt., n.a.) (	mfr.)	N.A				
Automatic over	erdrive (std., o	pt., n.a.) (mfr.)	N.A.				
Manual T	ransmiss	ion/Transaxle					
Number of for	ward speeds		5 - speed				
-	In first		3.45:1				
	In second		2.12:1				
	In third		1.44:1				
Transmis-	In fourth		1.13:1				
sion ratios	In fifth		0.89:1				
	In overdrive						
	In reverse		3.17:1				
Synchronous	meshing (spe	cify gears)	All forward gears				
Shift lever loc	ation		Floor				
	Capacity [L	(pt.)]	2.0 (4.2)				
	Type recom	mended	Hypoid Mil-L2105; API/GL-4				
Lubricant	SAE vis-	Summer	SAE 80W; SAE 80/90W				
	cosity	Winter	Same				
	number	Extreme cold	Same				
Clutch (M	lanual Tra	nsmission)					
Make, type, e (hydraulic, ca		escribe) –	Single plate - dry (Self adjesting)				
Assist (yes, no / percent)			No				
Type pressure	e plate springs	3					
Total spring lo	ad [N (lb.)]		3700-4200 (832-944)				
No. of clutch	driven discs		One				
	Material		Woven asbestos				
	Manufacture	er	Fichel & Sach/Luk				
	Part number		-				
Clutch facing	Rivets/plate		. 16/-				
	Rivet size		9.5 (0.374)				
	Outside & inside dia.		210 x 144 (8.25 x 5.67)				
	Total eff. area [cm²(in.²)]		346 (53.67)				
	Thickness		3.25 (0.128)				
	Engagemer method	et cushion	Wave spring segments				
Release bearing	Type & met		Ball thrust - lubed by oil from the transmission				
Torsional damping	Method: spr	ings,	Coil springs w/fibre washer				

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Engine Description/Carb. Engine Code			1.8 Liter F.I.
Automati	c Transm	nission/Transaxie	
Trade name			
Type and spe	cial features	(describe)	
Selector	Location		
Colocio	Ltr./No. de:	signation	
	R		
Gear	D		
ratios	L <sub>3</sub>		
	La		
	L,		
Max. upshift	speed - drive	range [km/h (mph)]	
Max. kickdow	m speed - dri	ve range [km/h (mph)]	
Min. overdrive	e speed (km/l	n (mph)]	
	Number of	elements	
Torque	Max. ratio	at stall	
converter	Type of coo	oling (air, liquid)	
	Nominal dia	ameter	
Lubricant	Capacity [refill L (pt.)]		
	Type Reco	mmended	
Oil cooler (sto external, air,	d., opt., NA, ir liquid)	nternal,	
Axle or F	ront Whe	el Drive Unit	
Type (front, re	ear)		Front
Description			Parallel axis helical gears
Limited slip d	ifferential (typ	ne)	
Drive pinion o	offset		
Drive pinion (	type)		
No. of differen	ntial pinions		
Pinion / differ	ential adjustn	nent (shim, other)	two
Pinion / differ	ential bearing	adjustment (shim, other	
Driving wheel	bearing (type	9)	Ball bearing - double row
	Capacity (L	. (pt.)]	1.3 (2.8)
	Type recon	nmended	SAE 90 Mil L2105B, API/GL-5
Lubricant	SAE vis-	Summer	
	cosity number	Winter	,
		Extreme cold	
Axle or Tr	ansaxle l	Ratio and Tooth C	ombinations (See 'Power Teams' for axle ratio usage.)
Axle ratio (or	overali top ge	ar ratio)	
No. of	Pinion		
teeth	Ring gear o	or gear	
Ring gear o.d		<del></del>	
Transaxle	Transfer ge	ar ratio	
	Final drive		3.67:1

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		<del>·</del>	_
Engine Description/Carb. Engine Code			
Engine Code	1.8 Liter F.I.		

### **Axle Shafts - Front Wheel Drive**

Number use	er used			Two
Type (straigh	nt, solid bar,		Left	Solid_bar
ubular, etc.)			Right	Tubular
	Manual trans	mission	Left	443 (17.44)
Outer liam, x			Right	677.2 (26.66)
ength" x vail	Automatic tra	ınsmission	Left	Same
hick-			Right	Same
ness	Optional tran	smission	Left	
			Right	1
	Туре			
Slip yoke	Number of te	eth		
Spline o.d.		<u>.</u>		
	Make and mfg. n		Inner	
•	Number used	Number used		Two
•	Type, size, pl	Type, size, plunge		Constant velocity 90 (3.562)
			Outer	Constant velocity 100(3.937)
Iniversal	Attach (u-bol	t, clamp, etc.)	)	Clamp
oints		Type (plair anti-friction	r. 1)	Ball bearing
	Bearing	earing Lubrication (fitting, prepack)		Prepack
Drive taken t arms or sprir	through (torque t	tube,		Engine mounts
	que taken through (torque tube, s or springs)			

<sup>\*</sup> Centerline to centerline of universal joints, or to centerline of attachment.

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Body Type Engine Dis	a And/Or splacement	2 - Door			
Suspens	sion – General				
Car	Std./opt./n.a.	N.A.			
leveling	Type (air, hyd., etc.)	-			
	Manual/auto. controlled	_			
Provision fo	r brake dip control	Suspension Geometry			
Provision to	r accl. squat control	Suspension Geometry			
Provisions for	or car jacking	Sill jacking - 4 jack points, 2 each side, fore & aft, with notch locators.			
Shock	Туре	Telescopic			
absorber (front &	Make				
rear)	Piston diameter	38.4 (1.51)			
	Rod diameter	11 (0.43)			
Suspens	sion – Front				
Type and de	escription	Independent MacPherson strut with coil springs			
Drive and to	orque taken through	Lower control arm			
Travel	Full jounce	72 (2.83)			
	Full rebound	85, (3.35)			
	Type (coil, leaf, other) & material	Coil - Alloy spring steel			
	Insulators (type & material)				
Spring	Size (coil design height & i.d., bar length x dia.)	342.8 x 113.5 ID x 12.67¢ without AC 360.0 x 113.5 ID x 12.67¢ with 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 arm			
	Material & bar diameter	22 (0,86) Alloy spring steel			
Suspens	sion – Rear				
Type and de	escription	V - Profile stabilizer axle w/coil springs and shocks			
Drive and to	rque taken through	_			
Travel	Full jounce	120 (4.72)			
	Full rebound	68 (2.68)			
	Type (coil, leaf, other) & material	Coil - Alloy spring steel			
Spring	Size (length x width, coil design height & i.d., bar length & dia.)	$348 \times 88.5 \times 9.6\phi$ (13.70 x 3.48 x 0.37 $\phi$ )			
-p-11-19	Spring rate [N/mm (lb./in.)]				
	Rate at wheel [N/mm (lb./in.)]				
	Insulators (type & material)	Rubber			
•	If No. of leaves				
	leaf Shackle (comp. or tens.)				
Stabilizer	Type (link, linkless, trameless)				
	Material & bar diameter				
Track bar (ty	(pe)				

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Body	Type	And/Or
Engin	e Dis	placement

2 - Door

### Brakes - Service

Brakes -	Servi	:e					
Description					Dual diagonal circuit system (Hydraulic)		
Brake type Front (disc or drum)		m)	Vented disc				
(std., opt., n.	.a.)		Rear (disc or drur	m)	Solid disc		
Self-adjustin	g (std., o	pt., n.a.)			Standard		
Special valving	Туре	(proportion	, delay, metering, otl	her)	2 - Constant pressure valves attached to the master cylinder		
Power brake	(std., op	t., n.a.)			Standard		
Booster type	remote.	, integral, v	ac., hyd., etc.)		Integral Vacuum		
Vacuum sou	rce (inline	e, pump, et	tc.)		Pump		
Vacuum resi	ervoir (vo	lume in. <sup>3</sup> )			9"		
Vacuum pun if other so st	mp-type (date)	elec, gear o	driven, belt driven,		Gear driven		
Anti-skid dev	vice type	(std., opt.,	n.a) (F/A)		N.A.		
Effective are	a [cm²(in	.²)]°			_		
Gross lining	area [cm	²(in.²)]**(F/	A)				
Swept area	[cm²(in.²)	]***(F/R)					
	Outen	working dia	meter	F/R	245 (9.6)		
Rotor	Inner	r working diameter F/R		F/A	145 (5.7)		
	Thickr	hickness F/9		F/A	10 (0.39)		
	Mater	ial & type (	vented/solid)	F/R	Cast iron - vented/solid		
Drum	Diame	eter & width	r & width F/R		_		
	Type	and materia	al ·	F/A	-		
Wheel cylind	der bore				-		
Master cyline	der	Bore/stro	ke	F/R	21 (0.8/15 (0.60)		
Pedal arc rat	tio				4.8:1		
Line pressur	e at 445	N(100 lb.) į	pedal load (kPa (psi)	]	Front: 13.8 (2000) Rear: 6.9 (1000)		
Lining clears	ance			F/R	0.15 (0.006)		
		Bonded o	or riveted (rivets/seg	.)	Bonded		
		Rivet size	9		-		
		Manufact	turer		Abex/US		
	Front	Lining co	de****		720 GG		
	wheel	Material			Semi-metallic		
		•••• P	rimary or out-board		_		
		Size S	econdary or in-boar	d	-		
Brake		Shoe thic	kness (no lining)	-	4.8 (0.19)		
lining		Bonded o	or riveted (rivets/seg	.)	Bonded		
	Rear	Manutaci	turer		Abex/US		
	wheel	Lining Co	ode****		ABPA 553		
		Material			Semi-metallic		
		•••• Р	rimary or out-board		-		
		Size S	econdary or in-boar	d			
,		Shoe thic	kness (no lining)		2.5 (0.1)		

<sup>\*</sup>Excludes rivet holes, grooves, chamfers, etc.

<sup>\*\*</sup>Includes rivet holes, grooves, chamfers, etc.

<sup>\*\*\*</sup>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.)

<sup>\*\*\*\*</sup>Size for drum brakes includes length x width x thickness.

<sup>\*\*\*\*\*</sup>Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

Car Line	GTI				
Model Year	1986	_ Issued _	8/1/85	Revised (●)	

Body Type And/Or Engine Displacement			2 - Door			
Tires And	d Wheels (Sta	ındard)				
	Size (load range	. plv)	185/60 HR14			
	Type (bias, radia	*	Steel belted radial			
	Inflation pres-					
Tires	sure (cold) for recommended	Front [kPa (psi)]	221 (32)			
	max. vehicle load	Rear [kPa (psi)]	241 (35)			
	Rev./mile-at 70 i	cm/h (45 mph)	922			
	Type & material		Light alloy			
	Rim (size & flang	e type)	6J x 14			
Wheels	Wheel offset		38 (1.77)			
***************************************		Type (bolt or stud)	Bolt			
	Attachment	Circle diameter	100 (39)			
		Number & size	Four (4) M12 x 1.5mm			
Spare	Tire and wheel (sother describe)	same, if	Temporary space saver tire w/steel wheel			
ораго	Storage position & location (describe)		Flat in trunk well below floor mat			
Tires And	l Wheels (Op	tional)	•			
Size (load rar	nge, ply)		N.A.			
Type (bias, ra	-		A A A A A A A A A A A A A A A A A A A			
Wheel (type &	•					
	nge type and offset	١				
Size (load rar	• ;					
Type (bias, ra	•					
Wheel (type &						
	nge type and offset	1				
Size (load rar	-					
Type (bias, ra						
Wheel (type &	•	<del>-</del>				
	nge type and offset	)				
Size (load rar		<del></del>				
Type (bias, ra	idial, etc.)					
Wheel (type &	k material)	· · · · · · · · · · · · · · · · · · ·				
Rim (size, flar	nge type and offset	)				
Spare tire and	t wheel					
road tire or optional spa	tion is different that wheel, describe are tire and/or whee torage position					
Brakes –	Parking					
Type of contri	 ol		Hand lever (Grip handle)			
<del></del>	Location of control		Floor - between frt. seats			
Operates on		- ··				
1	Type (internal or	external)	Mechanical - application at rear wheels N.A.			
If separate	Drum diameter		N.A.			
from service brakes						
ofake\$	Lining size (length x width x thickness)		N.A.			

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Body Type And/Or Engine Displacement				2 - Door
Steering	<u> </u>			
Manual (std.	., opt., n.a.)	١		Standard
Power (std.,				Optional
Adjustable steering who		Type and des	cription	N.A.
(tilt, swing, o		(Std., opt., n.a	1.)	-
Wheel diam: (W9) SAE J1	eter	Manual		381 (15.00)
		Power		Same
	Outside	Wall to wall (l.		
Turning diameter	front	Curb to curb (I		10.5 (34.45)
m (ft.)	Inside rear	Wall to wall (I. & r.)		
C		Curb to curb (l. & r.)		
Scrub Radiu	1 <b>5</b> -	Time		
		Type		Maintenance free rack and pinion
Manual	Gear	Make	Gear	
IAISTI (NS)		Ratios	Overall	20.0.1
	No whee	No. wheel turns (stop to stop)		20.8:1
	+	Type (coaxial, linkage, etc.)		
	Make			Rack & pinion TRW
		Туре		Hydraulic
Power	Gear		Gear	нуштанте
	Gea	Ratios	Overall	17.5:1
	Pump (dri	Pump (drive)		V-belt drive off crankshaft
	No. wheel	No. wheel turns (stop to stop)		3.17
	Туре			Rod & ball joint
Linkage		Location (front or rear of wheels, other)		Rear of front wheels
	Tie rods (d	one or two)		Two (right side adjustible)
-	Inclination	at camber (deg	ı.)	
Steering		Upper		Ball bearing
axis	Bearings (type)	Lower		Ball joint
	Thrust			Ball bearing
Steering spir	rdle & joint typ	же		Strut with lower ball
	Diameter	Inner bearing		
Wheel spindle	Diginoter	Outer bearing		,
-p., 1010	Thread (si	•		
	Bearing (t	Bearing (type)		Tapered roller bearing

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

 Car Line
 GTI

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**METRIC (U.S. Customary)** 

Body	Type	And/	Or
Engin	e Dis	place	ment

2 - Door

**Wheel Alignment** 

	Service checking	Caster (deg.)	+1° 33' ± 30'
		Camber (deg.)	-35' ± 20'
Front wheel at curb mass (wt.)		Toe-in [outside track-mm (in.)]	0° ± 10'
	Service	Caster	Same
	reset*	Camber	Same
	<u>l</u>	Toe-in	Same
	Periodic M.V. in- spection	Caster	_
		Camber	<u> </u>
		Toe-in	-
	Service checking	Camber (deg.)	-1° 40' + 20'
Rear		Toe-in [outside track-mm (in.)]	+25' = 15'
vheel at curb mass	Service	Camber	Same
wt.)	reset*	Toe-in	Same
	Periodic M.V. in-	Camber	-
	spection	Toe-in	

<sup>\*</sup> Indicates pre-set, adjustable, trend set or other.

**Electrical – Instruments and Equipment** 

Speed-	Туре	Pointer	
ometer	Trip odometer (std., opt., n.a.)	Standard	
EGR mainten	ance indicator	Instrument panel light - every 30000 miles	
Charge	Туре	Light	
indicator	Warning device		
Temperature	Туре	Light	
indicator	Warning device		
Oil pressure	Туре	Light	
indicator	Warning device	Audible buzzer	
Fuel Type		Gauge	
indicator	Warning device		
	Type (standard)	Electric 2-speed w/intermitient wipe	
Wind- shield	Type (optional)		
wiper	Blade length	406.4 (16.00)	
	Swept area [cm²(in.²)]		
Wind-	Type (standard)	Electric	
shield washer	Type (optional)	-	
	Fluid level indicator	Translucent Container	
Horn	Туре	Dual Tone	
	Number used	One	
Other		Optional: Rear window washer/wiper — Continuous by manually holding up detent — push down detent: 2 to 3 sweeps	

Car Line	GTI				
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		г			
Engine Description/Carb. Engine Code		rts.	1.8 Liter F.I.		
Electrica	I - Suppl	y System			
	Make		Varta		
	Model, std	., (opt.)	Standard		
	Voltage		12		
Battery	Amps at 0°F cold crank		54 Std. 63 w/AC		
		serve capacity			
	Amp/hrs	20 hr. rate			
	Location		Engine compartment		
Generator	Type and r	ating	14V, 65amp.		
or	Ratio (alt.				
alternator	Optional (t	ype & rating)	14V, 90amp. w/AC		
Regulator	Туре		Integral		
Electrica	I - Startir	ng System			
Start, motor	Current dra	ain at 0°F	950w		
	Engageme	nt type	Solenoid		
Motor drive	Pinion eng from (front,	ages , rear)	Front		
Electrica	l – Ignitio	n System			
Туре	Electronic (std., opt., n.a.)		Standard - Digital w/knock sensor		
	Other (spe	cify)			
	Make		Bosch		
Coil	Model		•		
	Current	Engine stopped – A			
		Engine idling – A			
	Make		Bosch		
_ •	Model Thread (mr	m)	14L-W 7DTC		
Spark plug		torque [N-m (lb, ft)]	14		
,	Gap	torque (14-16 (10, 10))	30 (22) 0.7 (0.028)		
	Number pe	er cylinder	0.7 (0.028) One		
Distributor	Make		one		
DISTRIBUTOR	Model				
Electrica		ession			
Locations & t					

 Car Line
 GTI

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Body Type			2 - Door		
Body					
Structure			Unitized body and 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. In addition, the front and rear axle assemblies, engine and transmission surfaces have been treated.		
Body – N	discellaneous	Information			
Type of finis	h (lacquer, enamel, c	other)	Acrylic Enamel		
	Hinge location (f		Rear conners		
Hood	Type (counterba	lance, prop)	Rod support		
	Release control	(internal, external)	Internal		
Trunk	Type (counterba	llance, other)			
lid	Internal release	control (elec., mech., n.a.)			
Hatch-	Type (counterba	llance, other)	One pressurized gas spring		
back lid	Internal release	control (elec., mech., n.a.)	N.A.		
<del>,</del>					
Vent windov friction, pivo	r control (crank, t, power)	Front Rear	Optional - Pivot w/friction lock		
		Front	Bucket w/foom over mind i wine form		
Seat cushio (e.g., 60/40,	n type bucket, bench,	Rear	Bucket w/foam over rigid wire frame  Bench w/foam over rigid wire frame		
wire, foam e	tc.)	3rd seat	bench w/roam over rigid wire frame		
		Front	Bucket w/foam over rigid wire frame		
Seat back ty (e.g., 60/40,	pe bucket, bench,	Rear	Bench w/foam over rigid wire frame  Bench w/foam over rigid wire frame		
wire, foam e		3rd seat	- Denon W/ Loam Over Ligid wite flame		
			Asymmetrically divided fold and tumble rear seats		

Car Line	GTI				
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Body Type			2 - Door		
Restraint	System				
Standard/optional Active		,	Standard		
restraint system	Type and description		Type 2, dual sensitive, continuous loop, w/height adjustable anchor, front. Rear outboard: Retracting lap, static rear cente		
	Location		Front and rear outboard positions, rear center.		
	Standard/optional	<u>-</u>	N.A.		
Passive seat belts	Power/manual		· -		
Conta	2 or 3 point		-		
	Knee bar/lap belt		-		
Frame					
	ription (separate frame, partially-unitized frame		Unitized		
Glass		SAE Ref. No.			
Windshield gla surface area [c	ss exposed m²(in,²)]	S1			
Side glass expo area [cm²(in.²)]	osed surface - total 2-sides	S2			
Backlight glass surface area [c		S3			
Total glass exp area [cm²(in.²)]	osed surface	S4			
Windshield gla	ss (type)		Laminated (Tinted)		
Side glass (type	9)	,	Tempered (Tinted)		
Backlight glass	(type)		Tempered (Tinted)		

Car Line	GTI			_
Model Year_	1986	Issued _	8/1/85	Revised (e)

2 - Door

Air conditioning (manual, auto. temp control)		Manual - Optional		
Clock (digital.	analog)	Digital		
Compass / the	rmometer	Thermometer - outside air & oil		
Console (floor	, overhead)	Floor		
Defrost <b>er,</b> elec	c. becklight	Standard		
	Diagnostic warning (integrated, individual)			
	Instrument cluster (list instruments)	Speedometer, warnig lights & clock		
	Keyless entry	N.A		
Electronic	Tripminder (avg. spd., fuel)	Standard		
	Voice alert (list items)	N.A.		
	Other	<u>-</u>		
Fuel door lock (remote, key, electric)		Key locking cap - Standard		
	Auto head on / off delay, dimming	•		
	Cornering	Standard		
	Courtesy (map, reading)	Standard		
	Door lock, ignition	Ignition - Standard		
	Engine compartment	N.A.		
.amps	Fog	N.A.		
	Glove compartment	Standard		
	Trunk	Standard		
	Other			
	Day/night (auto. man.)	Manual - Standard		
Mirrors	L.H. (remote, power, heated)	Remote		
MILL OF G	R. H. (convex, remote, power, heated)	Remote		
	Visor vanity (RH / LH, illuminated)	Non-illuminated - Standard		
Parking brake	-auto release (warning light)	Warning light - Standard		
	Door locks / deck lid - specify	Central locking - Optional w/powr. wdo's & mirrors		
Power	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		
equipment	Side windows	Optional		
	Vent windows			
	Rear window	-		
Radio	Antenna (location, whip, w/shield, power)	Fixed - LH Fender		
systems	AM, FM, stero, tape, CB	Optional: AM/FM stereo or AM/FM stereo w/cassette		
	Speaker (number, location) Premium sound			
Roof open air/	/fixed (flip-up, sliding, "T")	Optional - Sliding, self storing		
Speed control		-		
Speed warnin	g device (light, buzzer,etc.)	<b>-</b>		
Tachometer (i		Standard		
Theft protection		STANDARD: Locking steering column, inside hood release, key left in ignition signal, lockable glove box and key		

GTI Car Line Issued 8/1/85 1986 Revised (\*) 10/1/85 nseYleboM

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

See Key Sheets for definitions

round are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.

Body Type	SAE Ref. No.	2 - Door	4 - Door
Width			7 7
Tread (front)	W101	1415	
Trear (rear)	W102	1408	
Vehicle width	W103	1664	
Body width at Sg RP (front)	W117		
Vehicle width (front doors open)	W120		
Vehicle width (rear doors open)	W121		
Front fender overall width	W108 .		
Rear fender overall width	W107		
Tumble-home (deg.)	W122		
Length.			
	L101	2471	(97.3)
Wheelbase	L103		(158.3)
Vehicle length	L103		(32.2)
Overhang (front)	L105		(28.8)
Overhang (rear)	L123		(70.0)
Upper structure length	L127		
Rear wheel C/L"X" coordinate	L125		
Cowl point "X" coordinate	L126		
Front end length at centerline	L129	<u> </u>	
Rear end length at centerline	L129	<del></del>	
Height*			
Passenger distribution (front/rear)	PD1,2,3		
Trunk/cargo load			
Vehicle neight	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		<u> </u>
Bottom of door closed-rear to grd.	H135		
Windshield stope angle	H122		
Backlight slope angle	H121		<u> </u>
Ground Clearance*			
Front bumper to ground	H102		
Rear bumper to ground	H104		
Bumper to ground [front at curb mass (wt.)]	н103		
Bumper to ground [rear at curb mass (wt.)]	H105		
Angle of approach (degrees)	H106	16.80	
Angle of departure (degrees)	H107	22.20	
Ramp breakover angle (degrees)	H147		
Axle differential to ground (front / rear)	H153		
Min. running ground clearance	H156	117 (4.	4)

<sup>\*</sup> 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 Car Line - Model Year Model Year See Key Sheets for definitions

GTI Car Line \_ 1986 Model Year\_

Issued 8/1/85

. Revised (e) 10/1/85

Body Type	RAE Ref. No.	2 - Door	4 - Door
			·
Front Compartment			
Sg RP front, "X" coordinate	L31	1 <u>2</u> 59_ (	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	2	40
Hip angle	L42		· · · · · · · · · · · · · · · · · · ·
Knee angle	L44		
Foot angle	L46		
Design H-point front travel	L17		
Normal driving & riding seat track tryl.	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, whil, critr	L11		
Accel, heel pt. to steer, whil, ontr	H17		
Steering wheel to C/L of thigh	H13		
Steering wheel torso clearance	L7		
Headlining to roof panel (front)	H37	<u></u> .	<u> </u>
Undepressed floor covering thickness	H67		
Rear Compartment			
Sg RP Point couple distance	L50		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		
Shoulderroom	W4	1355_(	(53.3)
Hip room	W6	1324 (	(52.1)
Upper body opening to ground	H51		
Deal and	L41		
Back angle			
Back angle Hip angle	L43		
<del></del>	L43 L45		
Hip angle	<del> </del>		
Hip angle Knee angle	L45		
Hip angle Knee angle Foot angle Headlining to roof panel (second)	L45 L47		
Hip angle Knee angle Foot angle	L45 L47 H38		
Hip angle Knee angle Foot angle Headlining to roof panel (second) Depressed floor covering thickness Luggage Compartment	L45 L47 H38 H73		
Hip angle Knee angle Foot angle Headlining to roof panel (second) Depressed floor covering thickness Luggage Compartment Usable luggage capacity (L (cu. ft.))	L45 L47 H38 H73		
Hip angle Knee angle Foot angle Headlining to roof panel (second) Depressed floor covering thickness  Luggage Compartment Usable luggage capacity (L (cu. ft.)) Liftover height	L45 L47 H38 H73 V1 H195	n)	
Hip angle Knee angle Foot angle Headlining to roof panel (second) Depressed floor covering thickness Luggage Compartment Usable luggage capacity (L (cu. ft.))	L45 L47 H38 H73 V1 H195		pact
Hip angle Knee angle Foot angle Headlining to roof panel (second) Depressed floor covering thickness Luggage Compartment Usable luggage capacity (L (cu. ft.)) Liftover height Interior Volumes (EPA Classic	L45 L47 H38 H73 V1 H195	Com	pact 4.3

### MVMA Specifications Form

 Car Line
 GTI

 Model Year
 1985

 Issued
 8/1/85

 Revised (\*)
 10/1/85

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

See Key Sheets for definitions

Car and Body Dimensions	See Key Sheets for definitions							
Body Type	SAE Ref. No.	2 - Door	4 - Door					
Station Wagon - Third Seat								
Sg RP couple distance	L85							
Shoulderroom	W85							
liproom	W86							
ffective leg room	L86							
ffective head room	H86							
Sg RP to hael point	H87							
(nee clearance	L87							
Seat facing direction	SD1	T						
Back angle	L88							
lip angle	L89							
(nee angle	L90							
oot 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 [m³(ft.³)]	V2							
Hidden cargo volume [m³(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 [m³(ft.³)]	V3	0.864 (	30.5)					
Hidden cargo volume [m³(ft.³)]	V4							
Cargo volume index-rear of 2-seat	V11	0.499 (	17.6)					
Aerodynamics*								
Wheel lip to ground, front								
Wheel lip to ground, rear								
Frontal area [m²(ft²)]		1.88 (2						
Drag coefficient (Cd)		0.35						

<sup>\*</sup> EPA Loaded Vehicle Weight, Loading Conditions

Car Line	GTI			
		Issued <u>8/1/85</u>	Revised (•)	10/1/85

Body	Type

ducial Mark umber*	Define Coordinate Location
ont	The front gage holes are located on the lower side of each longitudinal member.
ear	The rear gage holes are located in the support structure forward of the rear axle mounting.
iducial lark umber	
W	-555 (-21.8)
L5	390 (15.4)
ront H8	56 (-2.2)
Н1	
н	
w	-626 (-24.6)
LS	2900 (114.2)
ear H	53 (2.1)
. Н	2

<sup>\*</sup> Reference – SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks. All linear dimensions are in millimeters (inches).

Car Line	GTI				•
Model Year_	1986	issued	8/1/85	Revised (*)	

Body Type			2 - Door	
Lamps and	Headlas	np Shaj	pe*	
	Headlam	Ó	Highest**	
	Headlam (SAE - H	127)	Lowest	
Height above ground to center of bulb	Taillamp		Highest"	
or marker	(SAE - H	128)	Lowest	
	Sidemark	er	Front	
			Rear	
Headlamp	D	Inside		
			Outside**	
Distance from	Taillamp		Inside	
C/L of car to center of bulb			Outside**	
	Direction	al	Front	
			Rear	
Lo beam		beam		
Halogen headlamp	Hi	beam		
(std., opt., n.a.)	Re	Replaceable bulb		
	Sh	ape		· ·
	<del></del>	beam		
Headlamp		beam	<del></del>	
other than above	<u> </u>	placeable		
	ļ	ape		
Тур		pe		

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

		Vehicle Mass (weight)						
Model	CUF	CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION			SHIPPING
	Front	Bass			n Front	Pass In Rear		SHIPPING MASS, kg (weight, lb.)
	Front	Rear	Total	Front	Rear	Front	Rear	(worgan, 10.)
			·			<u> </u>	<u> </u>	
						<del>                                     </del>		<u> </u>
2 DOOR							<del> </del> -	<del>                                     </del>
2 - DOOR				<del></del>				-
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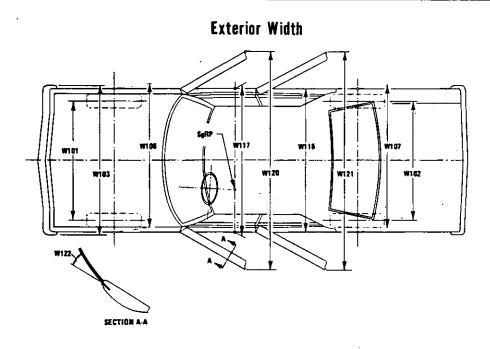
<sup>\*</sup> Reference – SAE J1100 Motor vehicle dimensions, curb weight definition. \*\* Shipping mass (weight) definition –

Car Line	GTI				-
Model Year_	1986	_ Issued _	8/1/85	Revised (•)	

	Optional Equipment Differential Mass (weight)*							
	м	IASS, kg. (we	ight, lb.)					
Equipment	Front	Rear	Total	Remarks				
Calif. Compliance Equip.	0	0	0	M-027				
Central Locking System	0.05	0.45	0.50	M-341 (w/Pwr. Opt. Pkg.)				
	(0.1)	(1.0)	(1.1)					
Cruise Control	1.2	0	1.2	M-352				
	(2.6)	0	(2.6)					
AM/FM Stereo Cassette-Dig.		1,13	2.98	M-472				
,	(4.1)	(2.5)	(6.6)					
Sunroof w/deflector	5.0	7.0	12.0	M-560 (reg'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)					
63Amp/br Battery	5.0	(30)	4.7	M-597				
	(11.0)	(-0.7)	(10.3)	· · · · · · · · · · · · · · · · · · ·				
Heavy Duty Radiator	1.74	0.35	2.09	M-635 (N.A. w/AC)				
	(3.8)	(0.8)	(4.6)					
Power Steering	8.0	0	8.0	M-657				
	(17.6)	0	(17.6)					
Power Windows	1.50	1.50	3.0	M-651 (Req'd w/Pwr. Opt. Pkg.)				
	(3.3)	(3.3)	(6.6)					
Floor mats front & rear	2.25	2.25	4,5	M-968				
	(5.0)	(5,0)	(10.0)					
<u> Power Mirrors - Heatable </u>	0.17	0.17	0.34	M-997				
	(0.37)	(0.37)	(0.75)					
Power Option Package	1,80	2.2	4.0	2–75				
TOWEL OPCION TACKAGE	(3.9)	(4.8)	(8.8)					
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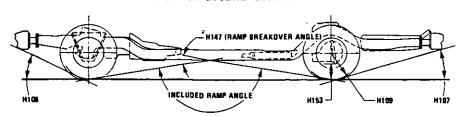
<sup>\*</sup>Also see Engine - General Section for dressed engine mass (weight).

### Exterior Car And Body Dimensions – Key Sheet

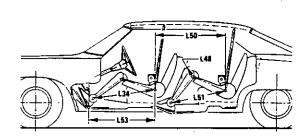


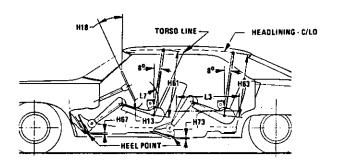
# Exterior Length & Height H122 H123 H121 H121 H121 H121 H121 H121 H122 H123 H125 L105

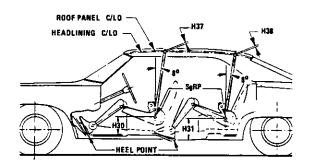
### **Exterior Ground Clearance**

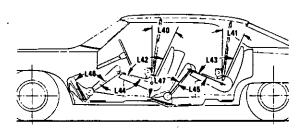


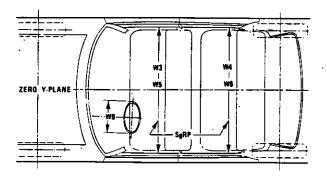
### Interior Car And Body Dimensions - Key Sheet

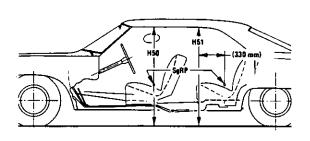






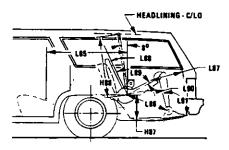


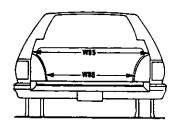




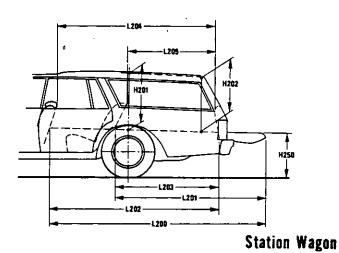
### Interior Car And Body Dimensions - Key Sheet

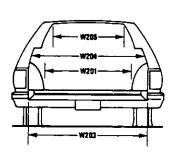
### Third Seat

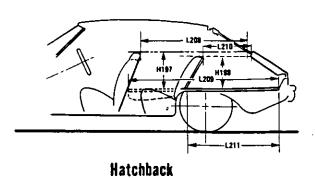




Cargo Space







**METRIC (U.S. Customary)** 

Exterior Car And Body Dimensions - Key Sheet Dimensions Definitions

### Seating Reference Point

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

- (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- (b) Has coordinates established relative to the design vehicle structure:
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations,"

### Width Dimensions

- W101 TREAD—FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD—REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- W117 BODY WIDTH AT SGRP-FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH—FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH-REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE-HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.

  CLINVED SIDE GLASS. The angle measured from a vertical
  - 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 from 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.
- 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.

**METRIC (U.S. Customary)** 

Interior Car And Body Dimensions -- Key Sheet Dimensions Definitions

- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

### **Glass Areas**

- S1 Windshield area.
- S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3 Backlight areas.
- S4 Total area. Total of all areas (S1 + S2 + S3).

### Fiducial Mark Dimensions

### Fiducial Mark - Number 1

- 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
- 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 taterally 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
- 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.

**METRIC (U.S. Customary)** 

### Interior Car And Body Dimensions - Key Sheet **Dimensions Definitions**

- BACK ANGLE-SECOND. The angle measured between a L41 vertical line through the SgRP - second and the torso line.
- HIP ANGLE-SECOND. The angle measured between torso L43 line and thigh cenerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- FOOT ANGLE-SECOND. The angle measured between the L47 lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- KNEE CLEARANCE-SECOND. The minimum dimension L48 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 SaRP-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).
- SHOULDER ROOM-SECOND. The minimum dimension W4 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.
- HIP ROOM-SECOND. Measured in the same manner as W6 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
- 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-J1 100.
- 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 compart-

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

- SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second the the SgRP-
- 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.
- BACK ANGLE-THIRD. Mesured in the same manner as L88 L41.
- L89 HIP ANGLE-THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE-THIRD. Measured in the same manner as L45
- FOOT ANGLE-THIRD. Measured in the same manner as L91
- 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. CARGO LENGTH-CLOSED-FRONT. The minimum dimen-L202 sion 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 žero "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

**METRIC (U.S. Customary)** 

### Interior Car And Body Dimensions - Key Sheet **Dimensions Definitions**

- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- REAR OPENING WIDTH AT BELT. The minimum dimen-W204 sion 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:

$$\frac{\text{W4 x H201 x L204}}{1728} = \text{ft}$$

Measured in mm:

$$\frac{\text{W4 x H201 x L204}}{10^9} = \frac{1}{\text{m}^3} \text{ (cubic meter)}$$

- HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. V4 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.
- TRUCKS AND MPV'S WITH OPEN AREA. V5 Measured in inches:

$$\frac{1.506 \times W500 \times H503}{1728} = ft^2$$

Measured in mm:

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

TRUCKS AND MPV'S WITH CLOSED AREA. V6

Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = ft^2$$

Measured in mm:

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

- HIDDEN LUGGAGE CAPACITY-REAR OF SECOND ٧8 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:

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

Measured in mm:

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

### Hatchback - Cargo Space Dimensions

All hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For electrically adjusted seats, see the manufacturer's specifications for Design "H" Point).

- 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 "Ÿ" plane.
- CARGO LENGTH AT FLOOR-FRONT-HATCHBACK. The L209 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.
- CARGO LENGTH AT SECOND SEATBACK HEIGHT-HATCHBACK. The minimum dimension measured from the L210 "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.
- FRONT SEATBACK TO LOAD HEIGHT. The dimension H197 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,
- HATCHBACK. V3

Measured in mm:

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

- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:

Measured in inches:  

$$\frac{L210 + L211}{2} \times W4 \times H198$$

$$\frac{2}{1728} = ft$$

Measured in mm:

$$\frac{L210 + L211}{2} \times W4 \times H198$$

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

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