MOTOR VEHICLE Specifications

METRIC (U.S. Customary)

Passenger Car

1986

Manufacturer	Car Line	
CHRYSLER CORPORATION	**CHRYSLER FIFTH AVENUE**	
Mailing Address		
DETROIT, MICHIGAN 48288	Issued **JUNE 15, 1985**	Revised

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.

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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 CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•)

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)
RWD	SEPT. 1985 .			
FIFTH AVENUE				
4-Door Sedan		FS41	6(3/3)	90(200)
NEWPORT				
4-Door Sedan		FH41	6(3/3)	90(200)

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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. (Barrel, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N-m (lb. ft.)			
STD.	5.2L (318)	2	9.0	104 (140) @ 3600	359 (265) @ 1600	S	AUTOMATIC	2.26

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Engine description/Carb.	**5.2L (318.0 in³)**
Engine Code	**2 bbl., ELA**

ENGINE - GENERAL

Type & descr. (inline, V, angle, flat, location, front, mid, rear, transverse, long., sohc,dohc, ohv, hemi, wedge, pre-camber, etc.		90° V-8 OHV, Front, Longitudinal
Manufacturer		Chrysler
No. of Cylinders		8
Bore		99.3 (3.91)
Stroke		84.1 (3.31)
Bore spacing (C/L to C/L)		113.3 (4.46)
Cylinder block material & mass kg (lbs.)		Cast Iron 62.709 (138.25)
Cylinder block deck height		243.69/243.94 (9.594/9.604)
Deck clearance (minimum) (above or below block)		1.69 (0.066) Below
Cylinder head material & mass kg (lbs.)		Cast Iron 44.162 (97.36)
Cylinder head volume (cm³)		65.7 to 69.7
Head gasket thickness (compressed)		0.85 (0.034)
Minimum combustion chamber total volume (cm³)		Clearance Volume: 85.82
Cyl. no. system (front to rear)*	L. Bank	1, 3, 5, 7
	R. Bank	2, 4, 6, 8
Firing order		1, 8, 4, 3, 6, 5, 7, 2
Intake manifold matl. & mass [kg(wt., lbs.)]		Casting 21.305 (46.97)
Exhaust manifold matl. & mass [kg(wt., lbs.)]		Casting R 6.187 (13.64) L 6.803 (15.00)
Recommended fuel (leaded, unleaded, diesel)		Unleaded
Fuel antiknock index $\frac{R + M}{2}$		87 Octane or Higher
Total dressed engine mass (wt) dry**		272.2 (600)

Engine - Pistons

Material & mass, g (weight, oz.) piston only	Aluminum Alloy 594.6 ± 2 (20.97)

Engine - Camshaft

Location		Center of "V" Above Crankshaft
Material & mass kg (weight, lbs.)		Hardenable Cast Iron 4.1 (9.05)
Drive type	Chain/belt	Chain
	Width/pitch	15.2 (0.60)/9.52 (0.375)

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

**Dressed engine mass (weight) includes the following: Starter, Alternator, Air Cleaner, Carburetor, Ignition System, Manifold, Water Pump, Engine Controls, Standard Fan & Drive Belts, Power Steering, Oil Filter, 2 Engine Mounts and Throttle Controls as Required.

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Engine Code	**2 bbl., ELA**

Engine - Valve System

Hydraulic lifters (std., opt., NA)		Standard
Valves	Number intake/exhaust	8/8
	Head O.D. intake/exhaust	1.78/1.5

Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]	Forged Steel: 0.758 (1.67)

Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]		Nodular Iron: 24.22 (53.4)
End thrust taken by bearing (no.)		Three
Number of main bearings		Five
Seal (material, one, two piece design, etc.)	Front	
	Rear	

Engine - Lubrication System

Normal oil pressure[kPa (psi) at eng rpm]	207 to 552 (30 to 80) @ 2000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4)

Engine - Diesel Information

Diesel engine manufacturer		
Glow plug, current drain at 0°F		
Injector nozzle	Type	
	Opening pres. [kPa(psi)]	
Pre-chamber design		
Fuel inj. pump	Manufacturer	
	Type	
Fuel inj. pump drive (belt,chain,gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator description (std., opt.)		
Turbo manufacturer		
Oil cooler type (oil to engine coolant; oil to ambient air)		
Oil filter		

Engine - Intake System

Turbo charger - manufacturer	
Super charger - manufacturer	
Charge cooler	

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Engine Description/Carb.		5.2L (318.0 in³) 2 bbl., ELA	
Engine Code		WO/AC	W/AC

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard	
Coolant fill location (rad., bottle))		Bottle	
Radiator cap relief valve pressure [kPa (psi)]		96-124 (14-18)	
Circulation thermostat	Type (choke, bypass)	Choke,Pellet Operated	
	Starts to open at °C(°F)	90.6 (195)	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump RPM	-	
	Number of pumps	One	
	Drive (V-belt, other)	V- Belt	
	Bearing type	Ball, Integral Shaft, Permanently Sealed	
	Impeller material		
	Housing material		
By-pass recirculation [type (inter., ext.)]		External	
Cooling System Capacity	With heater - L(qt.)	14.7 (15.5)	
	With air cond. - L(qt.)	-	
	Opt. equip. specify - L(qt.)]	15.6 (16.5) - Max. Cooling	
Water jackets full length of cyl. (yes, no)		Yes	
Water all around cylinder (yes, no)		Yes	
Water jackets open at head face (yes, no)			
Radiator Core	Std., A/C, HD	Std. / AC	HD
	Type (cross-flow, etc.)	Vertical Flow	
	Construction (fin&tube, mechanical, braze, etc.)	Single Flow	
	Material, mass[kg(wt., lbs.)]	Copper / Brass	
	Width	660 (26)	
	Height	457 (18)	
	Thickness	20.6(0.81) Std./AC	38.1(1.5) HD
	Fins per inch	15.5 Std./ AC	17.0 HD
Radiator end tank material			
Fan	Std., elec., opt.	Std., Viscous Drive	
	Number of blades & type (flex, solid, material)	5, Solid Metel	
	Diameter & projected width	508 (20.0)	
	Ratio (fan to crankshaft rev.)	1.10 Std./AC	1.25 HD
	Fan cutout type	Fluid Drive	
	Drive type (direct, remote)	DL170T18L	
	RPM at idle (elec.)	-	
	Motor rating (wattage) (elec.)	-	
	Motor switch (type & loc.)(elec.)	-	
	Switch point (temp., press.) (elec.)	-	
	Fan shroud (material)	Plastic	

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Engine Description/Carb.	**5.2L (318 in³) / 2 bbl.**
Engine Code	**ELA**

Engine - Fuel System

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

Induction type: carb., fuel inj. sys., etc.			carburetor
Carburetor	Mfr.		Holley 6280
	Choke (type)		automatic, electric assist, separate
	Idle spd. rpm (spec. neutral or drive and propane if used)	Manual	--
		Automatic	680 (neutral)
Idle A/F mix			propane idle enrichment, check emission control label
Fuel Injection	Point of injection (no.)		
	Constant,pulse, flow		
	Control (electronic, mech.)		
	System pressure (kPa (psi)]		
Intake manifold heat control (exhaust or water thermostatic or fixed)			exhaust, thermostatic
Air cleaner type	Standard		dry paper
	optional		--
Fuel pump	Type (elec. or mech.)		mechanical
	Location (eng., tank)		right front of engine
	Pressure range [kPa (psi)]		40 to 50 (5.75 to 7.25)

Fuel Tank

Capacity [refill L (gallons)]		68 (18.0)
Location (describe)		rear of axle
Attachment		terne plated strap to floor pan
Material & mass [kg (weight lbs.)]		terne plated steel
Filler pipe	Location & material	external, left rear quarter panel; lead-dipped steel
	Connection to tank	rubber grommet
Fuel line (material)		terne plated steel
Fuel hose (material)		fuel resistant rubber
Return line (material)		terne plated steel
Vapor line (material)		terne plated steel
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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Engine Description/Carb.	**5.2L (318 in³) 2 bbl.**
Engine Code	**ELA**

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, eng. modifications)		air injection, exh. gas recirc., engine mod's, catalytic converter
	Air Injection	Pump or pulse	positive displacement vane pump
		Driven by	V-belt
		Air distribution (head, manifold, etc.)	exhaust port-cold; single point-hot
		Point of entry	cylinder head-cold; exhaust manifold collector-hot
	Exhaust Gas Recirc-ulation	Type (controlled flow, open orifice,other)	controlled flow
		Exhaust source	intake manifold exhaust crossover
		Point of exhaust inj., (spacer, carb., manif., etc)	intake manifold floor
	Catalytic Converter	Type	3-way + oxidation
		Number of	three
		Location(s)	below exhaust manifold (2) and under floor
		Volume [L(in³)]	2.46 (150) 3-way + 1.16 (71) 3-way + 2.31 (141) oxidation
		Substrate type	monolithic
Crankcase Emission Control	Type (ventilates to atmosphere, induction system,other)		closed induction system
	Energy source (manifold, vacuum, carburetor,other)		intake manifold vacuum
	Discharges (to intake manif., other)		carburetor base
	Air inlet (breather cap, other)		crankcase inlet air cleaner
Evapora-tive emis-sion control	Vapor vented to (crank-case, canister, other)	Fuel tank	canister
		carburetor	canister
	Vapor storage provision		canister
Electronic system	Closed loop (yes/no)		yes-hot engine
	Open loop (yes/no)		yes- cold engine

Engine - Exhaust System

Type (single,single with cross-over, dual, other)		single with crossover: 1-75 in³ conv. / branch, 1-212 in³ conv. w/air inj.
Muffler no. & type (reverse flow, straight through separate resonator) Mat'l & mass [kg(weight lbs.)]		one, reverse flow
Resonator no. & type		none
Exhaust pipe	Branch o. d., wall thickness	50.8 x 1.83 (2.00 x 0.072)
	Main o. d., wall thickness	57.2 x 1.83 (2.25 x 0.072)
	Material & mass [kg(weight lbs.)]	stainless steel
Intermed-iate pipe	o. d., & wall thickness	57.2 x 1.83 (2.25 x 0.072)
	Material & mass [kg(weight lbs.)]	stainless steel
Tail pipe	o. d., & wall thickness	47.8 x 1.2 (1.88 x 0.048)
	Material & mass [kg(weight lbs.)]	aluminized steel

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Engine Description/Carb. **Engine Code**	ALL

Transmissions/Transaxle

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

Manual Transmissions/Transaxle

Number of forward speeds			--
Transmission ratios	In first		--
	In second		--
	In third		--
	In fourth		--
	In fifth		--
	In overdrive		--
	In reverse		--
Synchronous meshing (specify gears)			--
Shift lever location			--
Lubricant	Capacity [L(pt.)]		--
	Type recommended		--
	SAE viscosity number	Summer	--
		Winter	--
		Extreme cold	--

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		--
Assist (yes, no/percent)		--
Type pressure plate springs		--
Total spring load [N(lb.)]		--
No. of clutch driven discs		--
Clutch facing	Material	--
	Manufacturer	--
	Part Number	--
	Rivets/Plate	--
	Rivet Size	--
	Outside & inside diameter	--
	Total eff. area [cm^2 (in^2)]	--
	Thickness	--
	Engagement cushion method	--
Release Bearing	Type & method of lubrication	--
Torsional Damping	Method: springs, frictional material	----

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Engine Code	2 bbl., ELA

Automatic Transmission/Transaxle

Trade Name			Torqueflite
Type and special features (describe)			Torque Converter with Automatically Operated Planetary GearTransmission
Selector	Location		Lever Column Mounted
	Ltr./No. designation		PRND21
Gear ratios	R		2.22
	D		2.74, 1.54, 1.00
	L_3		-
	L_2		2.74, 1.54
	L_1		2.74
Max. upshift speed - drive range [km/h (mph)]			144 (89)
Max. kickdown speed - drive range [km/h (mph)]			134 (83)
Min. overdrive speed [km/h (mph)]			-
Torque converter	Number of elements		Three
	Max. ratio at stall		2.00:1
	Type of cooling (air, liquid)		Liquid
	Nominal diameter		273 (10.75)
Lubricant	Capacity [refill L (pt.)]		8 (17)
	Type recommended		Dexron II Automatic Transmission Fluid
Oil cooler (std., opt., NA, internal, external, air, liquid)			Std., Internal Liquid

Axle or Front Wheel Drive Unit

Type (front, rear)			Rear
Description			Unitized
Limited slip differential (type)			N.A.
Drive pinion offset			41.28 (1.625)
Drive pinion (type)			Hypoid
No. of differential pinions			Two
Pinion/differential adjustment (shim, other)			
Pinion/differentialbearing adjustment (shim, other)			Shim
Driving wheel bearing (type)			Straight Roller
Lubricant	Capacity [L (pt.)]		0.5 (2)
	Type recommended		SAE 80W-90
	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)		2.26
No. of teeth	Pinion	19
	Ring gear or gear	14
Ring gear o.d.		7.25
Transaxle	Transfer gear ratio	-
	Final drive ratio	-

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Engine Description/Carb.	All
Engine Code	

Propeller Shaft - Rear Wheel Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)			Internal Vibration Absorber
Outer diam. x length* x wall thick-ness	Manual 3-speed trans.		N.A.
	Manual 4-speed trans.		N.A.
	Manual 5-speed trans.		N.A.
	Overdrive		N.A.
	Automatic transmission		76.2 x 1371 x 1.65 (3.00 x 54 x 0.065) 76.2 x 1346 x 1.65 (3.00 x 53 x 0.065)
Inter-mediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		None
Slip yoke	Type		Sliding Spline
	Number of teeth		26
	Spline o. d.		29.34 (1.155)
Universal joints	Make and mfg. no.	Front	Chrysler
		Rear	Chrysler 7260
	Number used		Two
	Type (ball and trunion, cross)		Cross
	Rear attach (u-bolt, clamp, etc.)		Clamp
	Bearing	Type (plain, anti-friction)	Anti-friction
		Lubrication (fitting, prepack)	Prepak
Drive taken through (torque tube, arms or springs)			Rear Springs
Torque taken through (torque tube, arms or springs)			-

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

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Body Type And/Or Engine Displacement	All	
	Standard (SDA)	Heavy Duty (SDB)

Suspension - General

Car leveling	Std./opt./n.a.	Manual adjustment at torsion bar anchor bolt
	Type (air, hyd., etc.)	-
	Manual/auto controlled	-
Provision for brake dip control		Inclined upper control arms and asymmetrical rear springs
Provision for accl. squat control		Assymetrical rear springs
Provisions for car jacking		Scissors-type sill jack Jack supports located at each end of body side sills
Shock absorber (front & rear)	Type	Direct
	Make	Monroe
	Piston diameter	25.4 (1.0)
	Rod diameter	Front 12.7 (0.50); Rear: 12.7 (0.50)

Suspension - Front

Type and description		Independent, lateral, non-parallel control arms with transverse torsion bars	
Drive and torque taken through		Arms	
Travel	Full jounce	90 (3.55)	
	Full rebound	97 (3.83)	
Spring	Type (coil, leaf, other) & mat'l.	Transverse torsion bars; Carbon, manganese, boron steel	
	Insulators (type & material)	Compression (rubber)	
	Size (coil design height & i.d. bar length x dia)	Multi-step torsional section	
	Spring rate [N/mm (lb./in.)]	35.9 (205)	
	Rate at wheel [N/mm (lb./in.)]	21.0 (120)	
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	AISI 1095 Spring steel 25.4 (1.0)	28.5 (1.12)

Suspension - Rear

Type and description			Hotchkiss drive, semi-elliptical leaf springs	
Drive and torque taken through			Rear springs	
Travel	Full jounce		67 (2.64)	75 (2.94)
	Full rebound		147 (5.79)	139 (5.49)
Spring	Type (coil, leaf, other) & mat'l		semi-elliptical, asymmetrical	
	Size (length x width, coil design height & i.d., bar length x dia.)		1743 x 63.5 (58 x 2.5)	
	Spring rate [N/mm (lb./in.)]		18.4 (105)	21.0 (120)
	Rate at wheel [N/mm (lb./in.)]		20.0 (114)	22.9 (131)
	Insulators (type & material)		Compression: rubber	
	If leaf	No. of leaves	4	5
		Shackle (comp. or tens.)	Compression	
Stabilizer	Type (link,linkless,frameless)		None	
	Material & bar diameter		-	
Track bar (type)			None	

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Body Type And/Or Engine Displacement	ALL

Brakes - Service

Description				four-wheel hydraulic-actuated system
Brake type (std., opt., n.a.)	Front (disc or drum)			disc
	Rear (disc or drum)			drum
Self-adjusting (std., opt., n.a.)				standard
Special valving	Type (proportion, delay, metering, other)			front: metering rear: proportioning
Power brake (std , opt., n.a.)				standard
Booster type (remote, integral, vac., hyd., etc.)				vacuum, single
Vacuum source (inline, pump, etc.)				intake manifold
Vacuum reservoir (volume in.^{3})				--
Vacuum pump-type (elec. gear driven, belt driven, if other so state)				--
Anti-skid device type (std., opt., n.a.) (F/R)				N.A.
Effective area [cm^2(in.^{2})]* (F/R)				761.2 (117.98)
Gross lining area [cm^2(in.^{2})]** (F/R)				822.0 (127.41)
Swept area[cm^2(in.^{2})]*** (F/R)				2292.0 (355.24)
Rotor	Outer working diameter		F/R	front: 274.8 (10.82)
	Inner working diameter		F/R	front: 184.9 (7.28)
	Thickness		F/R	front: 25.4 (1.00)
	Material & type (vented/solid)		F/R	cast iron, vented
Drum	Diameter & width		F/R	rear: 254 (10) x 63.5 (2.5)
	Type and material		F/R	cast composite
Wheel cylinder bore				front: 69.8 (2.75); rear: 23.812 (0.9375)
Master cylinder	Bore/stroke		F/R	26.2 (1.03)/33.5 (1.32)
Pedal arc ratio				3.5:1
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]				power: 8274 (1200)
Lining clearance			F/R	no major adjustment
Brake Lining	Front wheel (a)	Bonded or riveted (rivets/seg.)		riveted, 7/shoe
		Rivet size		outer: 4.76 (0.19) dia. x 7.94 (0.31); inner: 4.76 (0.19) dia. x 9.52 (0.38)
		Manufacturer		Chrysler
		Lining code *****		CW-1816-FF
		Material		molded abestos
		**** Primary or out-board		5419.3 x 9.4 (8.40 x 0.370)
		Size Secondary or in-board		4341.9 x 11.94 (6.73 x 0.470)
		Shoe thickness (no lining)		outer: 4.19 (0.165); inner:5.69 (0.224)
	Rear wheel	Bonded or riveted (rivets/seg.)		bonded
		Manufacturer		Chrysler
		Lining code *****		--
		Material		molded asbestos
		**** Primary or out-board		214.1 x 61.0 x 4.80 (8.43 x 2.40 x 0.189)
		Size Secondary or in-board		282.2 x 61.0 x 5.99 (11.11 x 2.40 x 0.236)
		Shoe thickness (no lining)		1.9 (0.0747)

* Excludes rivet holes, grooves, chamfers, etc.
** Includes rivet holes, grooves, chamfers, etc.
*** Total swept area for 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.

(a) area x thickness

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Body Type And/Or Displacement	ALL

Tires and Wheels (Standard)

Tires	Size (load range)		P205/75 R 15, SL
	Type (bias, radial, etc.)		Steel Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	240 (35)
		Rear [kPa (psi)]	240 (35)
	Rev./mile - at 70 km/h (45 mph)		772
Wheels	Type & material		Disc Steel
	Rim (size & flange type)		15 x 7.0 JJ
	Wheel offset		6.35 (0.25)
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	114 (4.5)
		Number & size	5, $\frac{1}{2}$-20 NF
Spare	Tire and wheel (same, if other describe)		T 125/70 D15, Compact Spare
	Storage position & location (describe)		Vertical - Passenger Side Corner Kick-up Shelf

Tires and Wheels (Optional)

Size (load range)	-
Type (bias, radial, etc.)	-
Wheel (type & material)	Cast Aluminum
Rim (size, flange type and offset)	15 x 7.0 JJ 6.35 (0.25)
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)	Conventional Spare - Same as Road Tire

Brakes - Parking

Type of control		Foot Operated Pedal, Hand Release Lever
Location of control		Upper Left End of Instrument Panel
Operates on		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 CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•) _____

Body Type And/Or Engine Displacement	All

SteeringManual (std., opt., n.a.)

Manual (std., opt., n.a.)				not available
Power (std., opt., n.a.)				standard
Adjustable steering wheel (tilt, swing, other)		Type and description		tilt
		(Std., opt., n.a.)		optional
Wheel diameter (W9) SAE J1100		Manual		--
		Power		381 (15)
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		13.3 (43.6)
		Curb to curb (l. & r.)		12.4 (40.7)
	Inside rear	Wall to wall (l. & r.)		7.4 (24.3)
		Curb to curb (l. & r.)		7.5 (24.7)
Scrub Radius*				68 (2.68)
Manual	Gear	Type		
		Make		
		Ratios	Gear	
			Overall	
	No. wheel turns (stop to stop)			
Power	Type (coaxial, linkage, etc.)			integral
	Make			Chrysler
	Gear	Type		recirculating ball
		Ratios	Gear	15.7:1
			Overall	18.7:1
	Pump (drive)			pulley and belt, off crankshaft
	No. wheel turns (stop to stop)			3.5
Linkage	Type			parallelogram, trailing equal length tie rods
	Location (front or rear of wheels, other)			rear of wheels
	Tie rods (one or two)			two
Steering Axis	Inclination at camber (deg.)			8.0 @ 0
	Bearings (type)	Upper		ball joint
		Lower		ball joint
		Thrust		oil impregnated sintered metal
Steering spindle & joint type				ball joint
Wheel spindle	Diameter	Inner bearing		34.966 (1.3766)
		Outer bearing		19.035 (0.7494)
	Thread (size)			¾ - 16 UNF, 3A
	Bearing (type)			tapered roller

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

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Passenger Car
METRIC (U.S. Customary)

Car Line CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•) _____

Body Type And/Or Engine Displacement	All

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+ 1 1/4 to 3 3/4; Maximum side to side differential 1 1/4
		Camber (deg.)	- 1/4 to 1 1/4; Maximum side to side differential 1
		Toe-in [outside track-mm (in.)]	0 to 8 (0 to 5/16) Toe-in
	Service reset*	Caster	+ 2 1/2 to ± 1; Maximum side to side differential 1 1/4
		Camber	+ 1/2 to ± 1/2; Maximum side to side differential 1
		Toe-in	3.2 ± 1.6 (1/8 ± 1/16) Toe-in
	Periodic M.V. inspection	Caster	-
		Camber	-
		Toe-in	-
Rear wheel at curb mass (wt.)	Service checking	Camber	-0.3 to + 0.45
		Toe-in [outside track-mm (in.)]	1.5 (0.06) Toe-in to 4.8 (0.19) Toe-out
	Service reset*	Camber	Not adjustable
		Toe-in	Not adjustable
	Periodic M.V. inspection	Camber	-
		Toe-in	-

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

Electrical - Instruments and Equipment

Speedometer	Type	Magnetic torque drive
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		-
Charge indicator	Type	Ammeter (shunt type)
	Warning device	Light emitting diode (opt.)
Temp. Indicator	Type	Electric thermal
	Warning device	Light emitting diode (opt.)
Oil pressure indicator	Type	Light
	Warning device	-
Fuel indicator	Type	Electric thermal
	Warning device	Light emitting diode (opt.)
Wind shield wiper	Type (standard)	Electric 2-speed (articulated wipe)
	Type (optional)	Electric 2-speed, intermittent wipe (articulated wipe)
	Blade length	457 (18)
	Swept area [cm²(in.²)]	6230 (965.7)
Windshield washer	Type (standard)	Electric
	Type (optional)	-
	Fluid level indicator	Optional
Horn	Type	Four-inch seashell
	Number used	Two, standard
Other		

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

Car Line CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•)

Engine Description/Carb.	**5.2L (318.0 in.3)**
Engine Code	**2 bbl., ELA**

Electrical - Supply System

Battery	Make	Mopar
	Model, std., (opt.)	GRP 34
	Voltage	12V
	Amps at 0°F cold crank	400 (500)
	Minutes-reserve capacity	100 (110)
	Amp/hr. - 20 hr. rate	-
	Location	Left front fender side shield
Generator or alternator	Type and rating	60 Amp
	Ratio (alt. crank/rev.)	2.74:1
	Optional (type & rating)	78 Amp
Regulator	Type	Electronic

Electrical - Starting System

Start.motor	Current drain at 0°F	310-360
Motor drive	Engagement type	Solenoid shift
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)		Standard
	Other (specify)		Spark control computer w/feedback carburetor controller
Coil	Make		UTC or Prestolite
	Model		5226865 5226866
	Current	Engine stopped - A	3.0A
		Engine idling - A	1.9A
Spark plug	Make		Champion
	Model		RN12YC
	Thread (mm)		14 mm
	Tightening torque [N-m (lb-ft)]		(30)
	Gap		(0.035 in.)
	Number per cylinder		one
Distributor	Make		Chrysler
	Model		4145753-4V 4091140-2V

Electrical - Suppression

Locations & type	

* Canada only

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

Car Line CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•) _____

Body Type	41

Body

Structure	
Bumper system front - rear	Front - Steel 16.96 kg (37.40 lbs) Rear - 18.80 kg(41.46 lbs)
Anti-corrosion treatment	Extensive use of galvanized steel.

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)			Buffable Acrylic Enamel
Hood	Hinge location (front, rear)		Rear
	Type (counterbalance, prop)		Clockspring with Counterbalance
	Release control (internal, external)		Internal
Trunk lid	Type (counterbalance, other)		Torsion Bar
	Internal release control (elec., mech., n.a.)		Electric Power Release, Optional
Hatch-back lid	Type (counterbalance, other)		-
	Internal release control (elec., mech., n.a.)		-
Vent window control (crank, friction, pivot, power)		Front	None
		Rear	None
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam, etc.)		Front	60/40 - Formed Wire
		Rear	Formed Wire
		3rd seat	-
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)		Front	60/40 - Full Volume Foam
		Rear	Formed Wire
		3rd seat	-

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

Car Line CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•) _____

Body Type	41

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	Front: Outboard lap and shoulder belt Center: Lap belt Rear: Lap belt
	Location	Front: Three Rear: Three
Passive seat belts	Standard/optional	-
	Power/manual	-
	2 or 3 Point	-
	Knee bar/lap belt	-

Frame

Type and description (separate frame, unitized frame, partially unitized frame)		Unitized construction
Glass	**SAE Ref. No.**	
Windshield glass exposed surface area [$cm^2(in^2)$]	S1	9019 (1398)
Side glass exposed surface area [$cm^2(in^2)$]	S2	9672 (1499)
Backlight glass exposed surface area [$cm^2(in^2)$]	S3	3600 (558)
Total glass exposed surface area [$cm^2(in^2)$]	S4	22292 (3455)
Windshield glass (type)		Laminated safety glass
Side glass (type)		Heat treated safety glass
Backlight glass (type)		Heat treated safety glass

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

Car Line CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•) _____

Body Type	41

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

Air conditioning (manual, auto, temp. control)		Semi ATC - Opt.
Clock (digital, analog)		Digital - Std. w/Radio
Compass/thermometer		N.A.
Console (floor, overhead)		N.A.
Defroster, elec. backlight		EBL - Opt.
Electronic	Diagnostic warning (integrated, individual)	N.A.
	Instrument cluster (list instruments)	N.A.
	Keyless entry	N.A.
	Tripminder (avg. spd., fuel)	N.A.
	Voice alert (list items)	N.A.
	Other	
Fuel door lock (remote, key, electric)		N.A.
Lamps	Auto head on / off delay, dimming	N.A.
	Cornering	N.A.
	Courtesy (map, reading)	Std.
	Door lock, ignition	Door Lock - Opt. Ignition - Std.
	Engine compartment	N.A.
	Fog	N.A.
	Glove compartment	Std.
	Trunk	Std.
	Other	
Mirrors	Day/night (auto. man.)	Manual - Std.
	L.H (remote, power, heated)	Remote - Std.
	R.H. (convex, remote, power, heated)	Remote - Std.
	Visor vanity (RH / LH, illuminated)	RH Illuminated - Opt.
Parking brake-auto release (warning light)		Std.
Power equipment	Door locks / deck lid - specify	Door Locks / Deck Lid - Opt.
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	6 Way Driver, 4 Way Pass. - 60/40 - Opt. 6 Way Driver - 60/40 - Opt.
	Side windows	Std.
	Vent windows	N.A.
	Rear window	N.A.
Radio systems	Antenna (location, whip, w/shield, power)	Whip - Std. Power - Opt. Right Front Fender
	AM,FM, stereo, tape, CB	(a) - Std. (b) (c) (d) - Opt. See Page 19A
	Speaker (number, location) Premium sound	2 Front/2 Rear - Opt. W/ (b) (c) See Page 19A
Roof open air/fixed (flip-up, sliding, "T")		Power Sun Roof - Opt.
Speed control device		Opt.
Speed warning device (light, buzzer, etc.)		N.A.
Tachometer (rpm)		N.A.
Theft protection-type		Inside Hood Release - Std. Glove Box Lock - Std. Locking Steering Column - Std.

(a) AM Electronically Tuned Radio
(b) AM/FM/MX ETR
(c) AM/FM/MX Cassette/ETR
AM/FM/MX Cassette/ETR Ultimate Sound System (Includes Premium Speakers)

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

Car Line CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15 Revised (•) _____

See Key Sheets for Definitions

All dimensions to ground are for comparitive purposes only. Dimensions are to be shown for all base body models of each car line
SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	41
Width		
Tread (front)	W101	1537 (60.5)
Tread (rear)	W102	1524 (60.0)
Vehicle width	W103	1840 (72.4)
Body width at SgRP (front)	W117	1805 (71.1)
Vehicle width (front doors open)	W120	3655 (143.9)
Vehicle width (rear doors open)	W121	3404 (134.0)
Front fender overall width	W106	1840
Rear fender overall width	W107	1834
Tumble-home (deg.)	W122	22°
Length		
Wheelbase	L101	2860 (112.6)
Vehicle length	L103	5250 (206.7)
Overhang (front)	L104	1017 (40.0)
Overhang (rear)	L105	1373 (54.1)
Upper structure length	L123	2420 (95.3)
Rear wheel C/L "X" coordinate	L127	2471 (97.3)
Cowl point "X" coordinate	L125	251 (9.9)
Front end length at centerline	L126	1657 (65.2)
Rear end length at centerline	L129	1173 (46.2)
Height*		
Passenger distribution (front/rear)	PD1.2.3	2-FRONT, 3-REAR
Trunk/cargo load		-
Vehicle height	H101	1399
Cowl point to ground	H114	943 (37.1)
Deck point to ground	H138	926 (36.5)
Rocker panel-front to ground	H112	198 (7.8)
Bottom of door closed-front to grd.	H133	284 (11.2)
Rocker panel-rear to ground	H111	183 (7.2)
Bottom of door closed-rear to grd.	H135	279 (11.0)
Windshield slope angle	H122	52°
Backlight slope angle	H121	25°
Ground Clearance		
Front bumper to ground	H102	351 (13.8)
Rear bumper to ground	H104	270 (10.6)
Bumper to ground [front at curb mass (wt.)]	H103	365 (14.4)
Bumper to ground [rear at curb mass (wt.)]	H105	352 (13.9)
Angle of approach (degrees)	H106	19°
Angle of departure (degree)	H107	12°
Ramp breakover angle (degrees)	H147	12°
Axle differential to ground (front/rear)	H153	175 (6.9)
Min. running ground clearance	H156	152 (6.0)
Location of min. run. grd. clear.		EXH. SYST. CROSSOVER PIPE.

*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 CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•) _____

Body Type	SAE Ref. No.	41 60/40 Bench
Front Compartment		
SgRP front, "X" coordinate	L31	1120 (44.1)
Effective head room	H61	998 (39.3)
Max. eff. leg room (accelerator)	L34	1079 (42.5)
SgRP to heel point	H30	221 (8.7)
SgRP to heel point	L53	886 (34.9)
Back angle	L40	24.5°
Hip angle	L42	96°
Knee angle	L44	128.5°
Foot angle	L46	87°
Design H-point front travel	L17	150 (5.9)
Normal driving & riding seat track trvl.	L23	150 (5.9)
Shoulder room	W3	1422 (56.0)
Hip room	W5	1359 (53.5)
Upper body opening to ground	H50	1344 (52.9)
Steering wheel maximum diameter	W9	381 (15.0)
Steering wheel angle	H18	22°
Accel. heel pt. to steer. whl. cntr.	L11	554 (21.8)
Accel. heel pt. to steer. whl. cntr.	H17	589 (23.2)
Steering wheel to C/L of thigh	H13	89 (3.5)
Steering wheel torso clearance	L7	320 (12.6)
Headlining to roof panel (front)	H37	13 (0.5)
Undepressed floor covering thickness	H67	28 (1.1)
Rear Compartment		
SgRP Point couple distance	L50	859 (33.8)
Effective head room	H63	958 (37.7)
Min. effective leg room	L51	940 (37.0)
SgRP (second to heel)	H31	290 (11.4)
Knee clearance	L48	53 (2.1)
Compartment room	L3	704 (27.7)
Shoulder room	W4	1410 (55.5)
Hip room	W6	1351 (53.2)
Upper body opening to ground	H51	1270 (50.0)
Back angle	L41	25°
Hip angle	L43	88°
Knee angle	L45	97°
Foot Angle	L47	126°
Headlining to roof panel (second)	H38	13 (0.5)
Depressed floor covering thickness	H73	25 (1.0)
Luggage Compartment		
Usable luggage capacity [L (cu. ft.)]	V1	442 (15.6)
Liftover height	H195	719 (28.3)
Interior Volumes (EPA Classification)		
Vehicle class (subcompact,compact, etc.)		Mid-size
Interior volume index (cu. ft.)		114.4
Trunk/cargo index (cu. ft.)		15.6

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)
Car and Body Dimensions See Key Sheets for Definitions

Car Line CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•)

Body Type	SAE Ref. No.	41

Station Wagon - Third Seat

SgRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
SgRP 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 (second)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index [$m^3(ft.^3)$]	V3	
Hidden cargo volume [$m^3(ft^3)$]	V4	
Cargo volume index-rear of 2-seat	V11	

Aerodynamics*

Wheel lip to ground, front	687 (27.0)
Wheel lip to ground, rear	662 (26.1)
Frontal area [$m^2(ft^2)$]	2.2 (23.71 (a)
Drag coefficient (Cd)	N.A.

*Describe measurement method (a) P205/75 R 15 Tires, Two mirrors & antenna

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Car Line CHRYLSER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•) _____

Body Type	ALL

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front		The center of gauge holes located in transmission cross member approximately 36.5 in from centerline of front wheels.
Rear		The center of gauge holes located in rear longitudinals approximately 87.0 in from the centerline of front wheels.
Fiducial Mark Number		
Front	W21	16.25
	L54	21.2
	H81	-5.63 Bottom Surface of Crossmember
	H161	
	H163	
Rear	W22	17.6
	L55	71.7
	H82	-6.74 Bottom Surface of Longitudinal
	H162	
	H164	

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

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Car Line CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6 - 15 - 85 Revised (•) _____

Body Type	ALL

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	690.0 (27.2)
		Lowest	--
	Taillamp (SAE - H128)	Highest**	678.0 (26.7)
		Lowest	--
	Sidemarker	Front	544.0 (21.4)
		Rear	678.0 (26.7)
Height above ground to center of bulb or marker	Headlamp	Inside	452.0 (17.8)
		Outside**	660.0 (26.0)
	Taillamp	Inside	442.0 (17.4)
		Outside**	777.0 (30.6)
	Directional	Front	569.0 (22.4)
		Rear	610.0 (24.0)
Halogen headlamp (std., opt., n.a.)	Lo beam		standard
	Hi beam		standard
	Replaceable bulb		not available
	Shape		rectangular
Headlamp other than above	Lo beam		--
	Hi beam		--
	Replaceable		--
	Shape		--
	Type		--

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

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Passenger Car
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Car Line CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 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	
Standard Engine Model 5.2L (318 in^3)								
Fifth Avenue 4-Door Sedan	973 (2146)	725 (1598)	1698 (3744)	49.1	50.9	19.1	80.9	1657 (3654)
Newport 4-Door Sedan	936 (2064)	706 (1558)	1642 (3622)	49.1	50.9	19.1	80.9	1602 (3532)

*Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.

**Shipping mass (weight) definition -

MVMA Specifications Form
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Car Line CHRYSLER FIFTH AVENUE
Model Year 1986 Issued 6-15-85 Revised (•) _____

Optional Equipment Differential Mass (weight)*

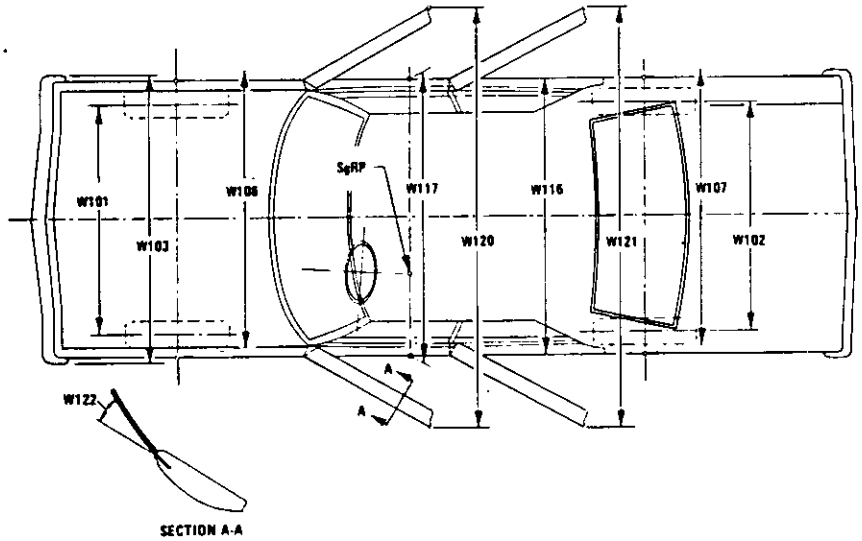
Equipment	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
Undercoating	3.2	3.2	6.4	
	(7)	(7)	(14)	
Power Sun Roof	10	12.2	22.2	
	(22)	(27)	(49)	
Auto Speed Control	1.8	0	1.8	
	(4)	(0)	(4)	
Left Power Seat	2.3	2.3	4.6	
	(5)	(5)	(10)	
Right Power Seat	3.2	4.1	7.3	Fifth Avenue
	(7)	(9)	(16)	
Air Conditioning	29	2.7	26.3	Newport
	(64)	(-6)	(58)	
Power Windows	3.6	4.1	7.7	Newport
	(8)	(9)	(17)	
Power Door Locks	1.8	2.3	4.1	W/O Power Windows
	(4)	(5)	(9)	
	.9	1.8	2.7	With Power Windows
	(2)	(4)	(6)	
Radio AM/FM/Stereo/ Cassette	2.7	3.2	5.9	
	(6)	(7)	(13)	
Power Antenna	.9	0	.9	
	(2)	(0)	(2)	
Wire Wheel Covers	2.2	2.3	4.5	
	(5)	(5)	(10)	

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

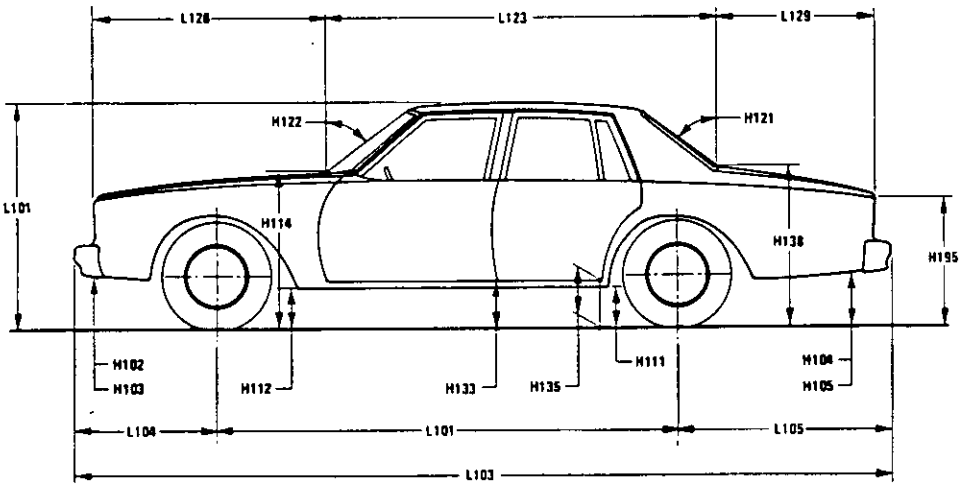
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

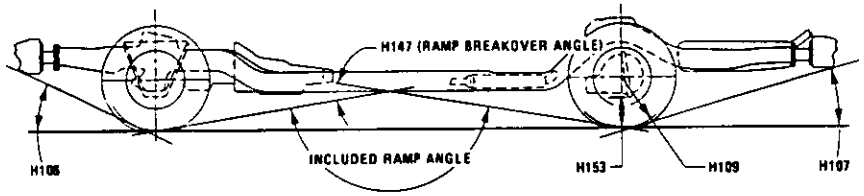
Exterior Width



Exterior Length & Height



Exterior Ground Clearance



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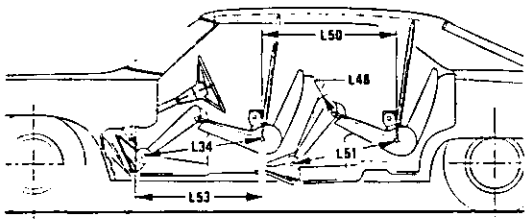
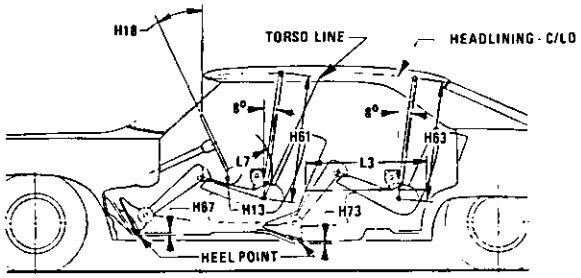
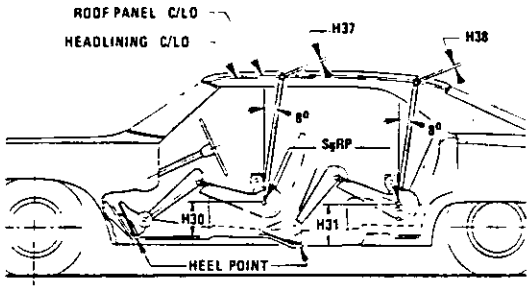
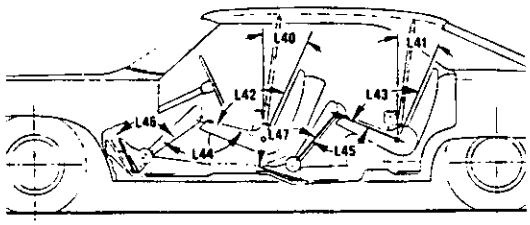
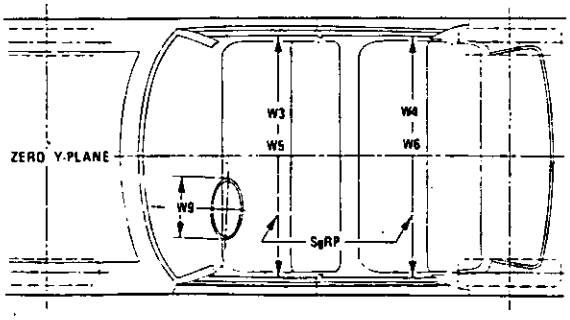
Interior Car And Body Dimensions – Key Sheet

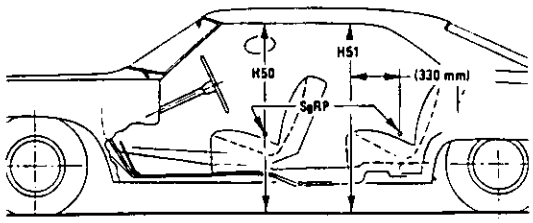






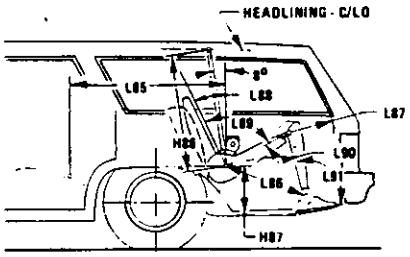


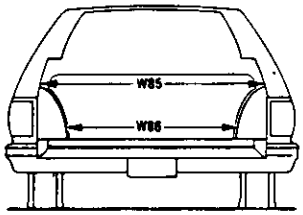




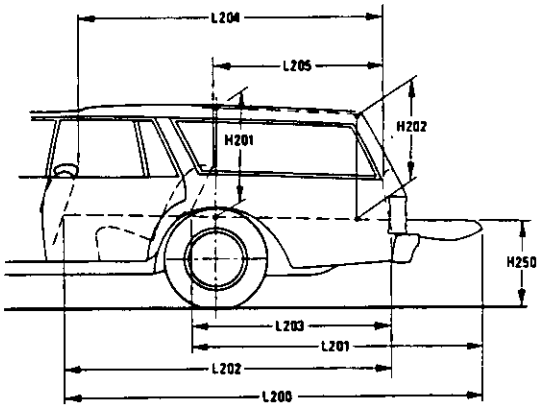
Interior Car And Body Dimensions – Key Sheet

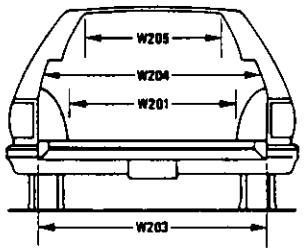
Third Seat



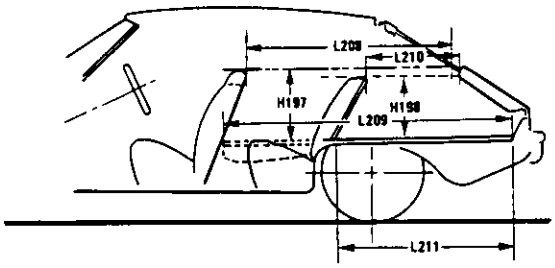


Cargo Space





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.

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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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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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