Specifications Form

Passenger Car

1983

METRIC (U.S. Customary)

Manufacturer	Car Line	
CHRYSLER CORPORATION	DODGE 400	
Mailing Address	Model Year	Issued: 6-1-82
DETROIT, MICHIGAN 48288	1983	Revised (•)

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

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
   a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
   b. Nominal design dimensions are used throughout these specifications.
   c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Models

Model Description	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load — Kilograms (Pounds)
	Sept. 30, 1982			
400				
2-DOOR SEDAN		VP22	6(3/3)	52(115)
2-DOOR CONVERTIBLE		VP27	4(2/2)	52(115)
4-DOOR SEDAN		VP41	6(3/3)	52(115)

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Power Teams (Indicate whether standard or optional)

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

SERIES AVAILABILITY	ENGINE						TRANSMISSION	AXLE RATIO (std. first) (indicate A/C ratio)
	Displ. Liters (in³)	Carb. (Barrels FI, etc.)	Compr. Ratio	SAE Net at RPM		Exhaust System*		
				kW (bhp)	Torque N·m (lb. ft.)			
STD. - ALL	2.2 (135)	2	9.0	70 (94) @ 5200	158 (117) @ 3200	S	Manual	2.57(a)
							Automatic	2.78, 3.02
OPT. - ALL	2.6 (156)	2	8.2	69 (93) @ 4500	179 (132) @ 2500	S	Automatic	2.78

(a) P22 Models Only

*S – Single D – Dual

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ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, etc.)		Four-Cylinder, In-Line, OHC Vertical Front, Transverse	
No. of cylinders		Four	
Bore		87.5 (3.44)	91.1 (3.59)
Stroke		92.0 (3.62)	98.0 (3.86)
Bore spacing (c/l to c/l)		96.0 (3.78)	101 (4.0)
Cylinder block material		Cast Iron	
Cylinder block deck height		237.8 (9.36)	251 (9.9)
Deck clearance (minimum) (above or below block)		0.773 (0.0304) Below	0.6 (0.02) Below
Cylinder head material		Aluminum	
Cylinder head volume (cm³)		56.7 ± 1.5	75.2
Head gasket thickness (compressed)		1.73 (0.068)	1.25 (0.049)
Minimum combustion chamber volume (cm³)		Clearance Volume: 70.66	Clearance Volume: 88.7
Cyl. no. system (front to rear)*	L. Bank	Right to Left as Installed in Car: 1, 2, 3, 4	
	R. Bank	—	
Firing Order		1-3-4-2	
Recommended fuel (leaded, unleaded, diesel)		Unleaded	
Fuel antiknock index $\frac{(R + M)}{2}$		87 Minimum	
Total dressed engine mass (wt) dry**		133.3 (293.8)	161.6 (356.3)

Engine - Pistons

Material	Aluminum Alloy	
Mass, g (weight, oz.) - Piston Only	455 ± 2 (16.0)	450 (15.9)

Engine - Camshaft

Location		Overhead	Center of Int. & Exh. Valve on Cyl. Head
Material		Hardenable Cast Iron	
Mass (kg., weight, lbs.)		3.52 (7.750)	2.9 (6.39)
Type of drive (chain or belt)	Width	Belt: 23.8/25.2 (0.937/0.992)	
	Pitch	9.525 (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, Ignition System, Manifold, Water Pump, Fuel Pump, Engine Mounted Emission Controls, Drive Belts, Oil Filter, Engine Mounts and Throttle Controls as Required.

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Engine - Valve System

Lifters (std., opt., n.a.)	Hydraulic	Standard	N.A.
	Solid	—	Standard

Engine - Connecting Rods

Material & mass (kg., weight, lbs.)	Forged Steel 0.691 (1.52)	Drop-Forged Steel 830 (29)

Engine - Crankshaft

Material	Nodular Iron	Drop-Forged Steel
Mass (kg., weight, lbs.)	16.53 (36.450)	18.2 (40.12)
End thrust taken by bearing (no.)	Three	

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	345 (50) @ 2000	390 (56.5) @ 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)	4.8 (5.0)

Engine - Diesel Information

Glow plug, current drain at 0°F		
Injector nozzle	Type	
	Opening pressure [kPa (psi)]	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Supplementary vacuum source (type)		

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Engine - Fuel System

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

Induction type: carburetor, fuel injection system, etc.			Carburetor	
Carburetor	Mfgr.		Holley: 6520	Mikuni Co., Ltd. 32-35 DID TA
	Choke (type)		Electric	Automatic
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	900	—
		Automatic (NEU)	900	900
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			Water	
Air cleaner type	Standard		Paper Element	Carbon Element
	Optional		—	
Fuel pump	Type (elec. or mech.)		Mechanical	
	Location (eng. tank)		Front Side of Transverse Mounted Engine	
	Pressure range [kPa (psi)]		30 to 40 (4.5 to 6)	

Fuel Tank

Capacity [refill L (gallons)]		49 (13.0)
Location (describe)		Forward of Axle
Attachment		Terne Plated Strap to Floor Pan
Material		Terne Plated Steel
Filler pipe	Location & material	External Right Rear Quarter Panel; Terne Plated 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.	Not Available
	Capacity [L (gallons)]	—
	Location & material	—
	Attachment	—
Auxiliary tank	Opt., n.a.	Not Available
	Capacity [L (gallons)]	—
	Location & material	—
	Attachment	—
	Selector switch or valve	—
	Separate fill	—

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	WO/AC	W/AC	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)]			110.3 ± 3.5 (14 - 17)			
Circulation thermostat	Type (choke, bypass)		Choke, Pellet			
	Starts to open at °C (°F)		90.6 (195)		88 (190)	
Water pump	Type (centrifugal, other)		Centrifugal			
	GPM 1000 pump rpm		—			
	Number of pumps		One			
	Drive (V-belt, other)		V-Belt			
	Bearing (type)		Integral Ball Bearing			
By-pass recirculation [type (inter., ext.)]			—			
Radiator core [type (cross-flow vertical cellular tube and fin, other) and material]			Cross-Flow, Copper/Brass			
Cooling system capacity	With heater - L(qt.)		8.2 (8.7)			
	With air cond. - L(qt.)		—			
	Opt. equipment [specify - L(qt.)]		—			
Water jackets full length of cyl. (yes, no)			Yes			
Water all around cylinder (yes, no)			No			
Radiator core	Standard	Width	566 (22.3)		632 (24.9)	
		Height	389 (15.3)		389 (15.3)	
		Thickness	20 (0.7)		31.8 (1.25)	
		Fins per inch	12 Man; 15 Auto		13.5	
	A/C	Width		566 (22.3)		632 (24.9)
		Height		389 (15.3)		389 (15.3)
		Thickness		20.6 (0.7)		31.8 (1.25)
		Fins per inch		17 Man; 18 Auto		13.5
	Heavy duty	Width	566 (22.3)		632 (24.9)	
		Height	389 (15.3)		389 (15.3)	
		Thickness	31.8 (1.25)		31.8 (1.25)	
		Fins per inch	17		13.5	
Fan (standard)	Number of blades & type (flex, solid, material)		2 Metal		5 Blades & Tip Ring	
	Diameter & projected width		317 (12.5)	356 (14)	381 (15)	
	Ratio (fan to crankshaft rev.)		—			
	Fan cutout type		Electric Motor			
	Drive [type (direct, remote)]		—			
	Fan shroud (material)		Metal		Plastic	
Fan (electric)	Diameter & projected width		317 (12.5)	356 (14)	381 (15)	
	RPM at idle		1800	1720	1300	1100
	Motor rating (wattage)		60	150	90	70
	Motor switch (type & location)		Bi-Metal/Radiator			
	Switch point (temp., pressure)		200°F		196°F	
	Fan shroud (material)		Metal		Plastic	
Fan (optional)	No. of blades and spacing		—			
	Diameter & projected width		—			
	Ratio (fan to crankshaft rev.)		—			
	Fan cut-out (type)		—			
	Drive (type, direct, remote)		—			

(a) (1.25) Automatic

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection, Exhaust Gas Recirculation Engine Modifications, Catalytic Converter	(a)
	Air Injection	Pump (type)	Positive Displacement Rotary Vane	None
		Driven by	V-Belt	
		Air distribution (head, manifold, etc.)	Single Entry	
		Point of entry	Exh. Man. Outlet Cold: Cat. Conv. Hot	
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled Flow	
		Exhaust source	Exhaust Manifold	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold Wall	
	Catalytic Converter	Type	3-Way Catalyst + Oxidation	Oxidation
		Number of	1	2
		Location(s)	Below Exhaust Manifold	Below Exhaust Manifold & Under Seat
		Volume [L (in³)]	1.72 (105) 3WC + 0.74 (45) Oxidation	0.7 (43) + 1.0 (61)
		Substrate type	Monolithic	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Closed Induction System	
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	
	Discharges (to intake manifold, other)		Intake Manifold	
	Air inlet (breather cap, other)		Carburetor Air Cleaner	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	
		Carburetor	Canister	
	Vapor Storage provision (crankcase, canister, other)		Canister	

(a) Pulse Air, Exhaust Gas Recirculation, Engine Modifications, Catalytic Converter

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single (a)
Muffler no. & type (reverse flow, straight thru, separate resonator)		One, Reverse Flow
Resonator no. & type		One, Straight Thru
Exhaust pipe	Branch o.d., wall thickness	50.8 x 1.4 (2.00 x 0.055)
	Main o.d., wall thickness	47.8 x 1.4 (1.88 x 0.055)
	Material	Stainless Steel
Intermediate pipe	o.d. & wall thickness	47.8 x 1.1 (1.88 x 0.043)
	Material	Stainless Steel
Tail pipe	o.d. & wall thickness	47.8 x 1.1 (1.88 x 0.043)
	Material	Aluminized Steel

(a) 2.2L (135.0 in.³): 150 in.³ Front Catalyst Converter with Air Injection
2.6L (155.9 in.³): 43 in.³ Catalyst Converter within Exhaust Manifold;
61 in.³ Rear Catalyst Converter Fed./Calif. (MMC Supplied)

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Electrical - Supply System

Battery	Voltage rtg. (V & total plates)	12 V, 54 Plates	
	Minimum reserve cranking	62 Minutes	
	SAE capacity (amps)	335 Amp	
	Location	Left Front Fender Side Shield	
Alternator	Type and rating	60 Amp	75 Amp
	Ratio (alt. crank/rev.)	2.25:1	2.52:1
	Optional (type & rating)	78 Amp	—
Regulator	Type	Voltage Control	

Electrical - Starting System

Start. motor	Current drain at −10°F	220 - 250A	230 - 280A
Motor drive	Engagement type	Solenoid Shift	
	Pinion engages from (front, rear)	Front	

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Electrical - Ignition System

Type	Conventional (std., opt., n.a.)		Not Available	
	Transistorized (std., opt., n.a.)		Standard	
	Other (specify)		(a)	—
Coil	Make		Essex or Prestolite	Dia. Elec. Mfg. Co. Ltd.
	Model		4111468 4111467	LB119
	Current	Engine stopped — A	3.0A	None
		Engine idling — A	1.9A	1.4
Spark plug	Make		Mopar Champion	NGK, Champion, Nippon Denso
	Model		65PR RN12YC	BPR5ES-11, RN11YC4, W16EPR-V10
	Thread (mm)		14mm	
	Tightening torque [N-m (lb., ft.)]		28 (20)	20-30 (15 to 22)
	Gap		0.89 (0.035)	1.0 to 1.1, 0.9 to 1.0
Distributor	Make		Chrysler	Supplied to Mitsubishi
	Model		5206975	

Electrical - Suppression

Locations & type	

Electrical - Instruments and Equipment

Speed-ometer	Type	Magnetic Torque Drive
	Trip odometer (std., opt., n.a.)	Std. in Optional Cluster - Trip Computer
EGR maintenance indicator		—
Charge indicator	Type	Voltage Light
	Warning device	—
Temperature indicator	Type	Light (Engine)*
	Warning device	—
Oil pressure indicator	Type	Light (Engine)*
	Warning device	—
Fuel indicator	Type	Magnetic
	Warning device	Low Fuel Light
Wind-shield wiper	Type (standard)	Electric 2-Speed, Non-Depressed Park
	Type (optional)	Electric 2-Speed Intermittent Wipe
	Blade length	406.4 (16)
	Swept area [cm²(in.²)]	5684 (881)
Wind-shield washer	Type (standard)	Electric (Arm Mounted)
	Type (optional)	—
	Fluid level indicator	Optional
Horn	Type	Four-Inch Sea Shell
	Number used	Two Std.
Other		*Indicates High Coolant Temperature or Low Oil Pressure

(a) Combustion computer with Feedback Carburetor Controller

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Transmissions

Manual 3-speed (std., opt., n.a.)	N.A.
Manual 4-speed (std., opt., n.a.)	N.A.
Manual 5-speed (std., opt., n.a.)	Standard on Two-Door Model Only
Manual overdrive (std., opt., n.a.)	N.A.
Automatic (std., opt., n.a.)	Std.
Automatic overdrive (std., opt., n.a.)	N.A.

Manual Transmission

Number of forward speeds			5
Transmission ratios	In first		3.29
	In second		1.89
	In third		1.21
	In fourth		.88
	In fifth		.72
	In overdrive		—
	In reverse		3.14
Synchronous meshing (specify gears)			All Forward Gears
Shift lever location			Floor
Lubricant	Capacity [L (pt.)]		2.15 (4.55)
	Type recommended		Mopar Dexron II Automatic Transmission Fluid
	SAE viscosity number	Summer	—
		Winter	—
		Extreme cold	—

Clutch (Manual Transmission)

Make & type		Luk, Dry Disc	Asin Seiki, Dry Disc	Auto Products, Dry Disc
Type pressure plate springs		Belleville		
Total spring load [N (lb.)]		4400-4900 (989-1102)	3880-5250 (872-1180)	4400-6300 (989-1416)
No. of clutch driven discs		One		
Clutch facing	Material	Asbestos		
	Manufacturer	Ferodo, Nuturn or Luk	Akebono	Ferodo
	Part number	A319095401, 02 or 03	31560-99838	57755
	Rivets/plate	16		
	Rivet size	9.00 (0.354)	8.00 (0.315)	7.54 (0.297)
	Outside & inside dia.	215 x 154 (8.46 x 6.06)	215 x 140 (8.46 x 5.51)	215 x 152.5 (8.46 x 6.00)
	Total eff. area [cm²(in.²)]	353.6 (54.8)	418.2 (64.8)	360.8 (55.9)
	Thickness	3.45 (0.136)	3.5 (0.138)	3.425 (0.135)
	Engagement cushion method	Wave Spring Segments		
Release bearing	Type & method of lubrication	Angular Contact Ball Bearing Lubed with Grease		
Torsional damping	Method: springs, friction material	Coil Springs and Fiber Friction Washers		

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Automatic Transmission

Trade name		Torqueflite
Type (describe)		Torque Converter with Automatically Operated Planetary Transmission and Parallel Axes Final Drive
Selector	Location	Floor or Column Operated
	Ltr./No. designation	PRND21
Gear ratios	R	2.10
	D	2.69, 1.55, 1.00
	L_3	—
	L_2	2.69, 1.55
	L_1	2.69
Max. upshift speed - drive range [km/h (mph)]		108 (67)
Max. kickdown speed - drive range [km/h (mph)]		100 (62)
Min. overdrive speed [km/h (mph)]		—
Torque converter	Number of elements	3
	Max. ratio at stall	2.00:1
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	241 (9.5)
Lubricant	Capacity [refill L (pt.)]	8.40 (17.75)
	Type recommended	Dexron II Automatic Transmission Fluid
Special transmission features		Wide Ratio

Axle or Front Wheel Drive Unit

Type (front, rear)			Front
Description			Parallel Axes Helical Gears
Limited slip differential (type)			—
Drive pinion offset			—
Drive pinion (type)			Straight Bevel
No. of differential pinions			2
Pinion adjustment (shim, other)			—
Pinion bearing adj. (shim, other)			—
Driving wheel bearing (type)			Double Row Ball or Double Row Taper Roller
Lubricant	Capacity [L (pt.)]		1.12 (2.37)
	Type recommended		Dexron II Automatic Transmission Fluid
	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 ratio		2.57	2.78	3.02
No. of teeth	Pinion	16	20	21
	Ring gear or gear	57	61	60
Ring gear o.d.		198.05 (7.97)	187.4 (7.38)	184.45 (7.26)
Transaxle	Transfer gear ratio	—	0.912	1.06
	Final drive ratio	3.56	3.05	2.86
		Manual	Automatic	

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Axle Shafts — Front Wheel Drive

Number used				Two
Type (straight, solid bar, tubular, etc.)			Left	Solid Bar
			Right	Tube
Outer diam. x length* x wall thick-ness	Manual transmission		Left	G.K.N. 27 x 367 (1.06 x 14.45) or Citroen 26.5 x 367.1 (1.04 x 14.45)
			Right	G.K.N. 40.5 x 605.4 x 2.7 (1.59 x 23.83 x 0.106) or Citroen 40 x 602.5 x 3.2 (1.53 x 23.72 x 0.126)
	Automatic transmission		Left	G.K.N 27 x 367 (1.06 x 14.45) or Citroen 26.5 x 371 (1.04 x 14.61)
			Right	Same as (Right Manual) Above
	Optional transmission		Left	—
			Right	—
Slip yoke	Type			—
	Number of teeth			—
	Spline o.d.			—
Universal joints	Make and mfg. no.		Inner	G.K.N. GI72 or Citroen
			Outer	G.K.N. 95AC or Citroen
	Number used			Two
	Type, size, plunge		Inner	Tripode Plunge
			Outer	Rzeppa-Fixed
	Attach (u-bolt, clamp, etc.)			—
	Bearing	Type (plain, anti-friction)		—
		Lubric, (fitting, prepack)		Prepack
Drive taken through (torque tube, arms or springs)				—
Torque taken through (torque tube, arms or springs)				—

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

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Engine Description/Carb. Engine Code	ALL

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P185/70 R 14, B, 2/2
	Type (bias, radial, etc.)		Steel Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	200 (29)
		Rear [kPa (psi)]	200 (29)
	Rev./mile - at 70 km/h (45 mph)		865
Wheels	Type & material		Aluminum
	Rim (size & flange type)		14 x 5.5JJ
	Wheel offset		40 (1.6)
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	100 (3.94)
		Number & size	4-M 12 x 1.5mm
Spare	Tire and wheel (same, if other describe)		T115/70 D 14 Low Mileage Spare
	Storage position & location (describe)		Vertical - Seat Back

Tires And Wheels (Optional)

Size (load range, ply)	P185/70 R 14, B, 2/2
Type (bias, radial, etc.)	Steel Radial
Wheel (type & material)	Disc Steel
Rim (size, flange type and offset)	14 x 5.5 JB 40(1.6)
Size (load range, ply)	
Type (bias, rdial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)	

Brakes - Parking

Type of control		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)	—

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Passenger Car
METRIC (U.S. Customary)

Car Line **DODGE 400**

Model Year **1983** Issued **6-1-82** Revised (•) _____

Body Type And/Or Engine Displacement	**ALL**

Brakes - Service

Description					
Brake type (std., opt., n.a.)	Front (disc or drum)			Disc	
	Rear (disc or drum)			Drum	
Self-adjusting (std., opt., n.a.)				Standard	
Special valving	Type (proportion, delay, metering, other)			Not Available	
Power brake (std., opt., n.a.)				Standard	
Booster type (remote, intergral, vac., hyd., etc.)				Vacuum, Single	
Anti-skid device type (std., opt., n.a.)				Not Available	
Effective area [cm²(in.²)]*				410.64 (63.65)	423.12 (65.58)
Gross lining area [cm²(in.²)]**				438.98 (68.04)	456.90 (70.82)
Swept area [cm²(in.²)]***				1632.57 (253.05)	1681.10 (260.57)
Rotor	Outer working diameter		F	254.8 (10.03)	256.2 (10.09)
			R	—	—
	Inner working diameter		F	160.8 (6.33)	158.2 (6.23)
			R	—	—
	Thickness		F	24.0 (0.945)	
			R	—	
	Material & type (vented/solid)		F	Damped Cast Iron - Vented	
			R	—	
Drum	Diameter (nominal)		F	—	
			R	200 (7.87)	
	Type and material			Cast Composite	
Wheel cylinder bore	Front			54 (2.13)	
	Rear			15.87 (0.625)	
Master cylinder	Bore			21.00 (0.827)	
	Stroke			32.79 (1.291)	
Pedal arc ratio				Power: 3.28:1	
Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]				Manual 6.99 (1000); Power 9.58 (1390)	
Lining clearance per shoe	Front			No Major Adjustment	
	Rear			No Major Adjustment	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Riveted 6/Shoe	
		Rivet size		3.57 (0.14) Dia. x 7.57 (0.3)	4.65 (0.18) Dia. x 7.5 (0.3)
		Manufacturer		Bendix	
		Lining code			
		Material		Molded Metallic	
		Size ****	Primary or out-board	4764 (7.38) x 11.34 (0.446)	4970 x 11.08 (7.70 x 0.436)
			Secondary or in-board	4280 x 12.34 (6.63 x 0.486)	4970 x 11.08 (7.70 x 0.436)
		Shoe thickness (no lining)		Outer: 4.83 (0.190) Inner: 5.68 (0.224)	5.33 (0.210)
	Rear wheel	Bonded or riveted (rivets/seg.)		Riveted 10/Shoe	
		Manufacturer		Bendix	
		Lining code		—	
		Material		Rolled Asbestos	
		Size ****	Primary or out-board	198.56 x 32.5 x 6.65 (7.82 x 1.28 x 0.262)	
			Secondary or in-board	198.56 x 32.5 x 6.65 (7.82 x 1.28 x 0.262)	
		Shoe thickness (no lining)		2.17 (0.0854)	

* Excludes rivet holes, grooves, chamfers, etc.

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

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

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

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Body Type And/Or Engine Displacement	S12, S13	S14 (High Effort)

Steering

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; Std. Convertible	
Wheel diameter		Manual		381 (15)	
		Power		381 (15)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		11.5 (37.7)	
		Curb to curb (l. & r.)		10.7 (34.8)	
	Inside rear	Wall to wall (l. & r.)		5.9 (19.3)	
		Curb to curb (l. & r.)		6.0 (19.6)	
Manual	Gear	Type			
		Make			
		Ratios	Gear		
			Overall		
	No. wheel turns (stop to stop)				
Power	Type (coaxial, linkage, etc.)			Integral Power Unit	
	Make			Saginaw or TRW	Saginaw
	Gear	Type		Rack and Pinion with Integral Power Unit	
		Ratios	Gear	—	
			Overall	18.3:1	14.2:1
	Pump (drive)			Pulley Belt Off Crankshaft	
	No. wheel turns (stop to stop)			3.2	2.5
Linkage	Type			Rack and Pinion Type (Rod and Ball Directly Attached to Gear)	
	Location (front or rear of wheels, other)			Rear of Wheels	
	Drag links (trans. or longit.)			None	
	Tie rods (one or two)			2 (Tie Rod Inners Integral with Rack and Pinion Gear)	
Steering axis	Inclination at camber (deg.)			13.3	
	Bearings (type)	Upper		Ball Bearing	
		Lower		Ball Joint	
		Thrust		Ball Joint	
Steering spindle & joint type				Iso-Strut with Lower Ball Joint	
Wheel spindle	Diameter	Inner bearing		76 (3.0) O.D.; 40 (1.57) I.D.	
		Outer bearing		—	
	Thread (size)			M22 x 1.5	
	Bearing size			Double Angular Contact Ball Bearing	

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Body Type And/Or Engine Displacement	ALL

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+0.2 to +2.2 Max. Diff. 1.5
		Camber (deg.)	−0.1 to +0.7
		Toe-in [outside track-mm (in.)]	1.3 (0.05) Toe-In to 3.7 (0.15) Toe-Out
	Service reset*	Caster	Not Adjustable
		Camber	See Above
		Toe-in	See Above
	Periodic M.V. inspection	Caster	—
		Camber	—
		Toe-in	—
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	$-1\frac{1}{4}$ to $+\frac{1}{4}$
		Toe-in [outside track-mm (in.)]	6.0 (0.23) Toe-In to 6.0 (0.23) 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.

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Body Type And/Or Engine Displacement	ALL		
	Standard (S12)	**Heavy Duty (S13)**	**Firm Feel (S14)**

Suspension - General

Car leveling	Std./opt./n.a.	Optional
	Type (air, hyd., etc.)	Air
	Manual/auto. controlled	Manual
Provision for brake dip control		Inclined Control Arm and Strut
Provision for accl. squat control		None
Special provisions for car jacking		Scissors-Type Sill Jack Jack Supports Located at Each End of Body Sills
Shock absorber (front & rear)	Type	Direct
	Make	Front: Fichtel & Sachs, Delco or Monroe; Rear: Monroe or Delco
	Piston diameter	Front: 32 (1.26); Rear: 25.4 (1.0)
Other special features		Offset Spring, Camber Adjustment, Negative Scrub Radius

Suspension - Front

Type and description		Iso-Strut		
Travel	Full jounce	79 (3.1)	86 (3.4)	79 (3.1)
	Full rebound	95 (3.7)	88 (3.5)	95 (3.7)
Spring	Type (coil, leaf, other)	Coil		
	Material	AISI 5160H Chromium Alloy Steel		
	Size (coil design height & i.d., bar length x dia.)	202 x 152 I.D. (7.95 x 6.0 I.D.)		
	Spring rate [N/mm (lb./in.)]	14.9 (85)	21.0 (120)	14.9 (85)
	Rate at wheel [N/mm (lb./in.)]	18.4 (105)	24.5 (140)	18.4 (105)
Stabilizer	Type (link, linkless, frameless	Linkless		
	Material & bar diameter	AISI 1095 Spring Steel; 25.4 (1.0)		27.0 (1.06)

Suspension - Rear

Type and description		Trailing Flex-Arm with Track Bar		
Drive and torque taken through		Arm		
Travel	Full jounce	61 (2.4)	73 (2.9)	61 (2.4)
	Full rebound	129 (5.1)	117 (4.6)	129 (5.1)
Spring	Type (coil, leaf, other)	Coil		
	Material	AISI 5160H Chromium Alloy Steel		
	Size (length x width, coil design height & i.d., bar length & dia.)	229 x 102 I.D. (9.0 x 4.01 I.D.)		
	Spring rate [N/mm (lb./in.)]	28 (160)	35 (200)	28 (160)
	Rate at wheel [N/mm (lb./in.)]	17.8 (102)	22 (126)	17.8 (102)
	Mounting insulation (type)	Rubber		
	If leaf: No. of leaves	—		
	If leaf: Shackle (comp. or tens.)	—		
Stabilizer	Type (link, linkless, frameless)	Frameless ERW Tube		Frameless Rod
	Material & bar diameter	80 KSI HSLA Steel; 25.4 (1.0) O.D.		
Track bar (type)		Channel Type		

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Body Type	ALL

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)	Counterbalance
	Internal release control (elec., mech., n.a.)	Electric, Power Release Optional
Bumper front	Bar material & mass (wt.)	Urethane Fascia 3.4 (7.5)
	Reinforcement material & mass (wt.)	High-Strength Steel 8.84 (19.5)
Bumper rear	Bar material & mass (wt.)	Urethane Fascia 2.40 (5.3)
	Reinforcement material & mass (wt.)	Steel 6.98 (15.4)
Vent window control (crank, friction, pivot, power)	Front	—
	Rear	—
Seat cushion type	Front	Formed Wire
	Rear	Full Foam with Zig-Zag Helper Elements
	3rd seat	—
Seat back type	Front	Full Foam
	Rear	Formed Wire
	3rd seat	—
Vehicle ident. no. location		Left End of Instrument Panel (Driver's Side of Vehicle)

Passive Restraint System

Inflatable restraint system	Standard/ optional	
	Type of charging system	
	Location (stg. whl., instru. panel, other)	
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

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Body Type	ALL

Convenience Equipment

Power windows	Side windows	Opt.
	Vent windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability		Opt. - Bench & Driver Side Bucket
Reclining front seat back (r-l or both)		Opt. - Left & Right Bucket
Radio (specify type as well as availability)		Std. AM; Opt. - AM/FM Stereos w/Cassette
Premium sound system (specify)		Opt. - All Stereos Include 4 Speakers - 2 Front & 2 Rear
Rear seat speaker		Opt.
Power antenna		N.A.
Clock		Digital - Std.
Air conditioner (specify type)		Opt. - Semi-Automatic Temperature Control
Speed warning device		N.A.
Speed control device		Opt.
Ignition lock lamp		Std.
Dome lamp		Std. - Except Convertible - N.A.
Glove compartment lamp		Std.
Luggage compartment lamp		Std.
Underhood lamp		Std.
Courtesy lamp		Std.
Map lamp		Opt.
Cornering lamp		Opt.
Rear window defroster electrically heated		Opt. - Except Convertible - N.A.
Rear window defogger		N.A.
T-bar roof (describe)		N.A.
Sun roof (describe)		Opt.
Theft protection - type		Locking Steering Column - Std.
		Locking Gas Cap - Opt.
		Inside Hood Release - Std.
Power door locks		Opt.
Power top		Std. - Convertible
Power o/s mirrors		Opt
Audible message center		Opt. - Except Station Wagon - Std.
Electronic trip computer		Opt.
Power liftgate switch		Opt.

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FEATURE HIGHLIGHTS

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

BODY:

- NEW BI-LEVEL MODE ADDED TO AIR CONDITIONING SYSTEM
- NEW THREE-MODE HEATER SYSTEM WITH RAM AIR FEATURE
- NEW POWER OUTSIDE MIRRORS
- NEW TETHERED GAS CAP

CHASSIS:

- NEW CHRYSLER CORPORATION 5-SPEED MANUAL TRANSMISSION
- NEW MANUAL TRANSAXLE CABLE SHIFTER SYSTEM
- NEW SELF-ADJUSTING REAR DRUM BRAKES

ENGINE:

ELECTRICAL:

- NEW AUDIBLE MESSAGE CENTER (ELECTRONIC VOICE ALERT SYSTEM)
- NEW ELECTRONIC TRAVEL COMPUTER
- NEW 335-AMP MAINTENANCE FREE BATTERY

OTHER:

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ESTIMATED

Vehicle Mass (weight)

Model	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 MODELS								
2.2L (135 in.³)								
400								
2-Door Sedan	713	405	1118	50.2	49.8	19.0	81.0	1091
	(1572)	(893)	(2465)					(2405)
2-Door Convertible	738	411	1149	49.6	50.4	22.7	77.3	1122
	(1626)	(907)	(2533)					(2473)
4-Door Sedan	734	419	1153	50.2	49.8	19.0	81.0	1126
	(1619)	(923)	(2542)					(2482)
OPTIONAL ENGINE								
2.6L (155.9 in.³)								
400								
2-Door Sedan	757	400	1157	50.2	49.8	19.0	81.0	1130
	(1670)	(881)	(2551)					(2491)
2-Door Convertible	767	409	1176	49.6	50.4	22.7	77.3	1149
	(1692)	(901)	(2593)					(2533)
4-Door Sedan	764	416	1180	50.2	49.8	19.0	81.0	1153
	(1685)	(917)	(2602)					(2542)

CURB WEIGHT: THE WEIGHT OF A VEHICLE WITH STANDARD EQUIPMENT WITH FULL QUANTITIES OF GAS, OIL AND WATER.

SHIPPING WEIGHT: SAME AS CURB WEIGHT, EXCEPT WITH 3 GALLONS OF GASOLINE

* Reference - SAE J1100a, Motor vehicle dimensions, curb weight definition.
** Shipping mass (weight) definition -

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ESTIMATED

Optional Equipment Differential Mass (weight)*

Equipment	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
Automatic Transmission	14.5	−2.7	11.8	2-Door Sedan with 2.2L Engine Std on all Other Models
	(32)	(−6)	(26)	
Air Conditioning	34.5	−3.2	31.3	2.2L Engine
	(76)	(−7)	(69)	
	28.1	−2.3	25.8	2.6L Engine
	(62)	(−5)	(57)	
Power Seat	4.6	3.6	8.2	Left Bucket
	(10)	(8)	(18)	
	5.0	4.1	9.1	Bench Auto Trans. Only Not Available on Convertible
	(11)	(9)	(20)	
Power Windows	2.3	1.3	3.6	2-Door Sedan & Convertible
	(5)	(3)	(8)	
	3.6	3.2	6.8	4-Door Sedan
	(8)	(7)	(15)	
Power Door Locks	.9	.9	1.8	2-Door Sedan & Convertible
	(2)	(2)	(4)	
	1.4	1.4	2.8	4-Door Sedan
	(3)	(3)	(6)	
Power Convertible Top	.5	4.1	4.6	Convertible
	(1)	(9)	(10)	
Automatic Speed Control	1.8	0	1.8	
	(4)	(0)	(4)	
Bucket Seats	3.6	4.1	7.7	4-Door Sedan
	(8)	(9)	(17)	Std. on 2-Door Sedan & Convertible
Console	1.4	1.4	2.8	4-Door Sedan
	(3)	(3)	(6)	Std. on 2-Door Sedan & Convertible
AM-FM Multiplex Radio	.9	.9	1.8	All Models Except Convertible
	(2)	(2)	(4)	
500 Amp Battery	9.1	−1.4	7.7	
	(20)	(−3)	(17)	
Trunk Dress-Up	0	1.4	1.4	Sedans & Convertible
	(0)	(3)	(3)	
Conventional Spare	−3.6	10.0	6.4	Sedans & Convertible
	(−8)	(22)	(14)	
Class III Wheel Covers	3.2	3.2	6.4	
	(7)	(7)	(14)	
Styled Road Wheels	−3.6	−4.1	−7.7	
	(−8)	(−9)	(−17)	
Undercoating	.9	1.8	2.7	
	(2)	(4)	(6)	

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

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METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

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

Body Type	SAE Ref. No.	22	27	41
Width				
Tread (front)	W101	1464 (57.6)		
Tread (rear)	W102	1448 (57.0)		
Vehicle width	W103	1740 (68.5)		
Body width at Sg RP (front)	W117	1728 (68.0)		
Vehicle width (front doors open)	W120	4019 (158.2)		3431 (135.1)
Vehicle width (rear doors open)	W121	—		3143 (123.7)
Length				
Wheelbase	L101	2542 (100.1)		
Vehicle length	L103	4563 (179.6) (a)		
Overhang (front)	L104	1001 (39.4) (a)		
Overhang (rear)	L105	1015 (40.0)		
Upper structure length	L123	2358 (92.8)		
Rear wheel C/L "X" coordinate	L127	2619 (103.1)		
Cowl point "X" coordinate	L125	460 (18.1)		
Height*				
Passenger distribution (frt./rear)	PD1,2,3	2-Front, 3-Rear	2-Front, 2-Rear	2-Front, 3 Rear
Trunk/cargo load		None		
Vehicle height	H101	1336 (52.6)	1374 (54.1)	1346 (53.0)
Cowl point to ground	H114	917 (36.1)		
Deck point to ground	H138	892 (35.1)	—	892 (35.1)
Rocker panel - front to ground	H112	213 (8.4)		
Bottom of door closed - front to grd.	H133	259 (10.2)		264 (10.4)
Rocker panel - rear to ground	H111	185 (7.3)		
Bottom of door closed - rear to grd.	H135	—		257 (10.1)
Ground Clearance*				
Front bumper to ground	H102	325 (12.8)		
Rear bumper to ground	H104	272 (10.7)		
Bumper to ground [front at curb mass wt.)]	H103	336 (13.2)		
Bumper to ground [rear at curb mass (wt.)]	H105	346 (13.6)		
Angle of approach	H106	16.4°		
Angle of departure	H107	15.9°		
Ramp breakover angle	H147	15.9°		
Rear axle differential to ground	H153	N.A.		
Min. running ground clearance	H156	119 (4.7)		
Location of min. run. grd. clear.		Front Suspension Crossmember		

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

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

(a) Includes guards

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METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	22	27	41
		Hi-Back Bucket Seat		Center Arm Rest Bench Seat
Front Compartment				
Sg RP front, "X" coordinate	L31	1405 (55.3)	1418 (55.8)	1405 (55.3)
Effective head room	H61	970 (38.2)	1010 (39.8)	980 (38.6)
Max. eff. leg room (accelerator)	L34	1072 (42.2)	1087 (42.8)	1072 (42.2)
Sg RP (front to heel)	H30	264 (10.4)	252 (9.9)	264 (10.4)
Design H-point front travel	L17		171 (6.7)	
Shoulder room	W3		1401 (55.1)	1407 (55.4)
Hip room	W5		1353 (53.3)	1343 (52.9)
Upper body opening to ground	H50			
Steering wheel angle	H18		26°	
Back angle	L40	24°	26.5°	24°
Rear Compartment				
Sg RP Point couple distance	L50	791 (31.1)	684 (26.9)	791 (31.1)
Effective head room	H63	940 (37.0)	880 (34.6)	960 (37.8)
Min. effective leg room	L51	913 (35.9)	824 (32.4)	893 (35.2)
Sg RP (second to heel)	H31	281 (11.1)	342 (13.5)	281 (11.1)
Knee clearance	L48	16 (0.6)	−129 (−5.1)	7 (0.3)
Compartment room	L3	629 (248)	504 (198)	626 (24.6)
Shoulder room	W4	1466 (57.7)	947 (37.3)	1421 (55.9)
Hip room	W6	1398 (55.0)	955 (37.6)	1360 (53.5)
Upper body opening to ground	H51	—	—	
Luggage Compartment				
Usable luggage capacity [L (cu. ft.)] (a)	V1	428 (15.0)	370 (13.1)	428 (15.0)
Liftover height	H195			

All linear dimensions are in millimeters (inches).

(a) Estimated

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METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	N.A.

Station Wagon — Third Seat

Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Effective T-point head room	H89	
Seat facing direction	SD1	

Station Wagon — Cargo Space

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 volumn [m^3($ft.^3$)]	V4	

Hatchback — Cargo Space

Front seat back to load floor height	H197	
Cargo length at front seat back height	L208	
Cargo length at floor (front)	L209	
Cargo volumne index [m^3($ft.^3$)]	V3	
Hidden cargo volume [m^3($ft.^3$)]	V4	

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

All dimensions are in millimeters (inches).

MVMA Specifications Form
Passenger Car

Car Line DODGE 400

Model Year 1983 Issued 6-1-82 Revised (*)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
Front	The center of gauge holes located in the front longitudinal approximately 836 mm (32.9 inches) from the centerline of front wheels.
Rear	The center of gauge holes located in the rear longitudinally approximately 3211 mm (126.4 inches) from the centerline of front wheels.

Fiducial Mark Number		
Front	W21	433.5 (17.1)
	L54	925 (36.4)
	H81	−9 (−.35) bottom of surface of longitudinal
	H161	
	H163	
Rear	W22	527.6 (20.8)
	L55	3300 (129.9)
	H82	236 (9.3) bottom surface of longitudinal
	H162	
	H164	

* Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks - September, 1973.
All linear dimensions are in millimeters (inches).

MVMA Specifications Form
Passenger Car

Car Line DODGE 400

Model Year 1983 Issued 6-1-82 Revised (*)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	22	27	41
Glass				
Backlight slop angle (deg.)	H121	29°	—	34°
Windshield slope angle (deg.)	H122	52°		
Tumble-Home (deg.)	W122	26		
Windshield glass exposed surface area [cm²(in.²)]	S1	8069 (1251)	7471 (1158)	8069 (1251)
Side glass exposed surface area [cm²(in.²)]	S2	8548 (1325)	7420 (1150)	8138 (1261)
Backlight glass exposed surface area [cm²(in.²)]	S3	3509 (544)	5148 (798) (a)	4165 (646)
Total glass exposed surface area [cm²(in.²)]	S4	20126 (3120)	20039 (3106)	20372 (3158)
Windshield glass (type)		Laminated Safety Glass		
Side glass (type)		Heat Treated Safety Glass		
Backlight glass (type)		Heat Treated Safety Glass		

(a) Plastic Backlight

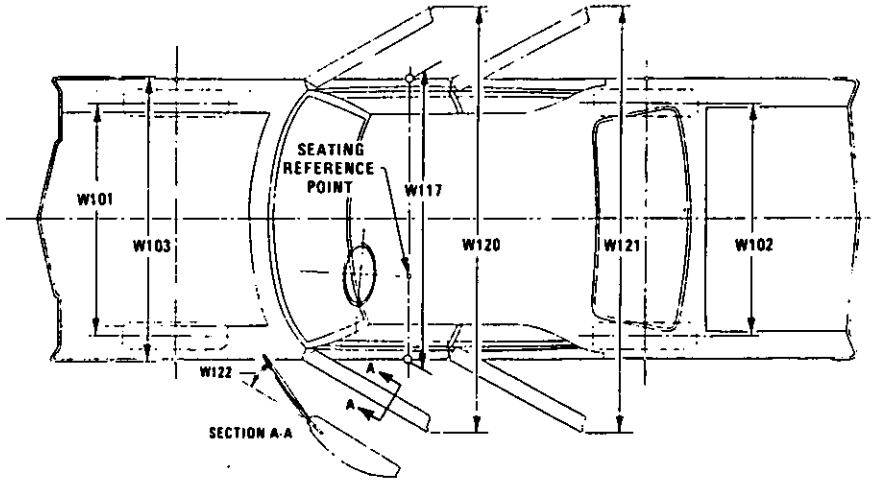
Lamps and Headlamp Shape*			
Height above ground to center of bulb or marker	Headlamp (H127)	Highest	
		Lowest	660 (26.0)
	Taillamp (H128)	Highest**	579 (22.8)
		Lowest	
	Sidemarker	Front	503 (19.8)
		Rear	452 (17.8)
Distance from C/L of car to center of bulb	Headlamp	Inside	450 (17.7)
		Outside**	638 (25.1)
	Taillamp	Inside	
		Outside**	656 (25.8)
	Directional	Front	637 (25.1)
		Rear	656 (25.8)
Headlamp shape			Rectangular

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

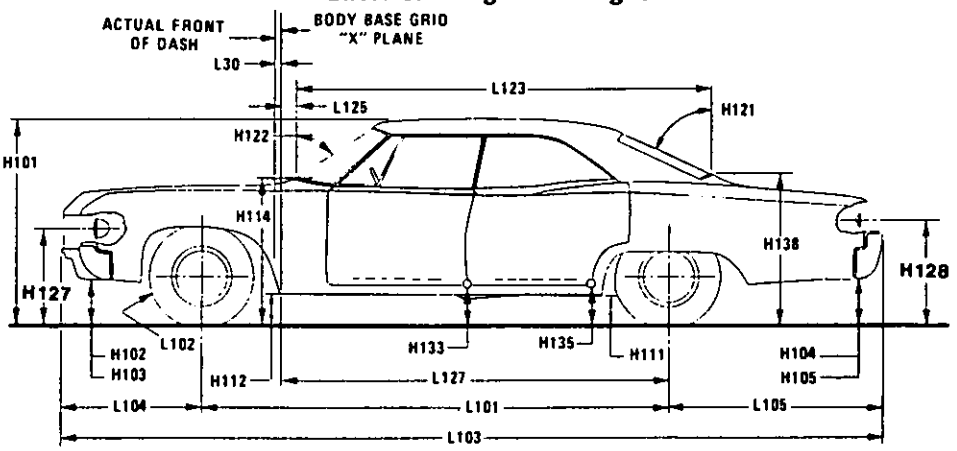
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

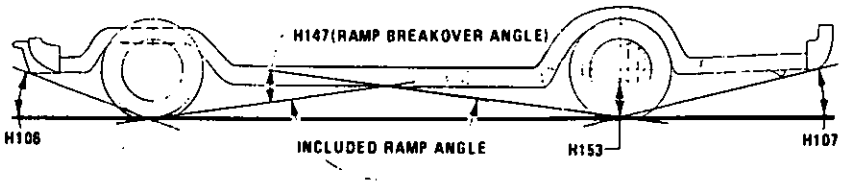
Exterior Width



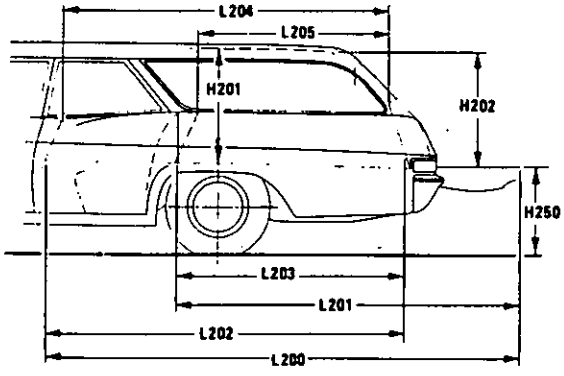
Exterior Length & Height



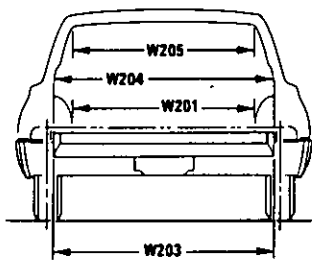
Exterior Ground Clearance

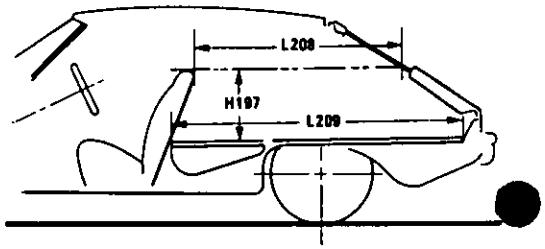


Cargo Space



Station Wagon



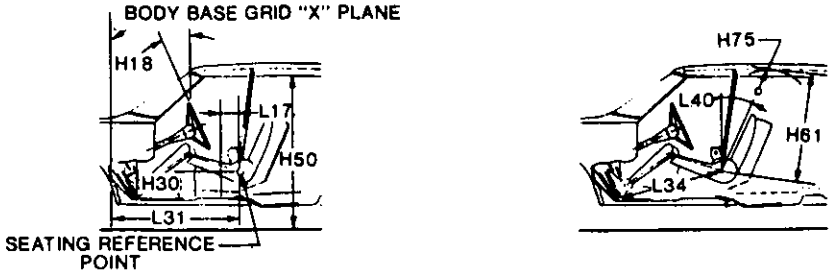


Hatchback

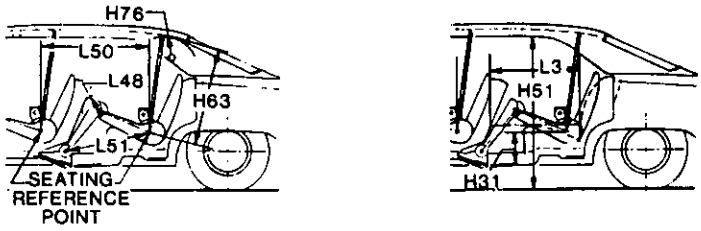
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

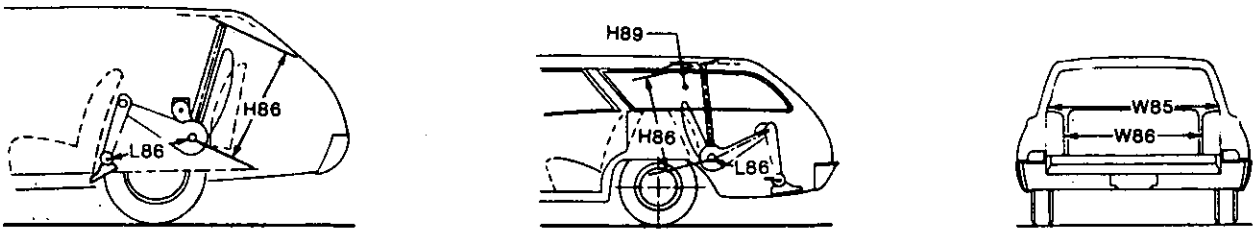
Front Compartment



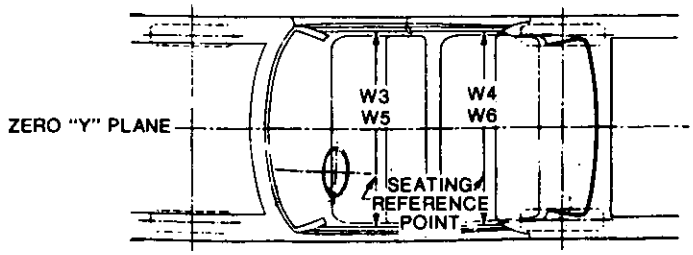
Rear Compartment



Third Seat



Interior Width



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

Exterior Car And Body Dimensions — Key Sheet
Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which —
(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
(b) Has coordinates established relative to the design vehicle structure;
(c) Simulates the position of the pivot center of the human torso and thigh; and
(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions

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

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

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

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

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

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

L102 TIRE SIZE. As specified by the manufacturer.

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

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

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

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

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

L125 COWL POINT "X" COORDINATE.

Height Dimensions

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

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

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

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

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

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

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

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

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

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

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

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

Ground Clearance Dimensions

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

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

Interior Car And Body Dimensions — Key Sheet
Dimensions Definitions

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

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

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

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

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

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

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

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

Front Compartment Dimensions

PD1 PASSENGER DISTRIBUTION—FRONT.

L31 SgRP—FRONT "X" COORDINATED.

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

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

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

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

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

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

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

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

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

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

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION—SECOND.

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

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

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

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

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

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

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

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

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

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

Luggage Compartment Dimensions

V1 USABLE LUGGAGE CAPACITY—Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.

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

Station Wagon — Third Seat Dimensions

PD3 PASSENGER DIRECTION—THIRD.

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

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

L86 EFFECTIVE LEG ROOM—THIRD. The dimension measured along a line from the ankle pivot center to the SgRP—third plus 254 mm (10.0 in.).

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

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

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

Interior Car And Body Dimensions — Key Sheet
Dimensions Definitions

Station Wagon — Cargo Space Dimensions

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

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

L202 CARGO LENGTH—CLOSED—FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or 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 back panel at the height of the belt, on the zero "Y" plane.

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

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

W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.

W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.

W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.

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

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

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

V2 STATION WAGON

Measured in inches:

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

Measured in mm:

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

V4 HIDDEN CARGO VOLUME. As specified by the manufacturer.

Hatchback — Cargo Space Dimensions

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

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

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.

L209 CARGO LENGTH AT FLOOR—FRONT—HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

V3 HATCHBACK.

Measured in inches:

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

Measured in mm:

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

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