Specifications Form

Passenger Car

1983

METRIC (U.S. Customary)

Manufacturer	Car Line	
CHRYSLER CORPORATION	DODGE OMNI/CHARGER	
Mailing Address DETROIT, MICHIGAN 48288	Model Year 1983	Issued: 7-19-82
		Revised (•) 10-22-82

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

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NOTE:

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

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Car Models

Model Description	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load — Kilograms (Pounds)
	10-1-82			
OMNI				
4 DOOR HATCHBACK		ZE44	5(2/3)	52(115)
CHARGER				
2-DOOR HATCHBACK		ZH24	5(2/3)	52(115)
OMNI CUSTOM				
4-DOOR HATCHBACK		ZH44	5(2/3)	52(115)
CHARGER 2.2				
2-DOOR HATCHBACK		ZP24	5(2/3)	52(115)
SHELBY CHARGER	2-1-83			
2-DOOR HATCHBACK		ZS24	5(2/3)	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 (Transaxle)	AXLE RATIO (std. first) (indicate A/C ratio)
	Displ. Liters (in³)	Carb. (Barrels FI, etc.)	Compr. Ratio	SAE Net at RPM kW (bhp)	SAE Net at RPM Torque N·m (lb. ft.)	Exhaust System*		
STD. - E & H	1.6 (97.1)	2	8.8	46 (62) @ 4800	117 (86) @ 3200	S	MANUAL	2.69 (a), 2.57 (b)
OPT. - E & H	1.7 (104.7)	2	8.2	47 (63) @ 4800	113 (83) @ 2400	S	MANUAL	3.37 (a) 2.69 Calif.
							AUTOMATIC	3.38, 3.48 (N.A. Calif.)
OPT. - E & H	2.2 (135)	2	9.0	70 (94) @ 5200	158 (117) @ 3200	S	MANUAL	2.69(a), 2.20/2.57(b)
OPT. - ALL							AUTOMATIC	2.78, 3.02 (c)
STD. - P	2.2 (135)	2	9.0	75 (100) @ 5200	165 (122) @ 3200	S	MANUAL	2.57 (b)
							AUTOMATIC	2.78, 3.02 (c)
STD. - S	2.2 (135)	2	9.6	80 (107) @ 5600	172 (127) @ 3600	S	MANUAL	2.78 (b)

(a) 4-Speed
(b) 5-Speed
(c) High Altitude

*S – Single D – Dual

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Engine Description/Carb. Engine Code	1.6 L (97.1 in.³) 2 bbl., E82	1.7 L (104.7 in.³) 2 bbl., E12	2.2 L (135.0 in.³) 2 bbl., E62

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		80.6 (3.17)	79.5 (3.13)	87.5 (3.44)
Stroke		78.0 (3.07)	86.4 (3.40)	92.0 (3.62)
Bore spacing (c/l to c/l)		88.0 (3.46)	87.8/88.2 (3.45/3.47)	96.0 (3.78)
Cylinder block material		Cast Iron		
Cylinder block deck height		201.95 (7.95)	219.9/220.1 (8.66/8.66)	237.8 (9.36) (b)
Deck clearance (minimum) (above or below block)		1.215 (0.0478) Below	2.3 (0.090)	0.773 (0.0304) Below
Cylinder head material		Aluminum		
Cylinder head volume (cm³)		23.34 ± 0.6	24.8 ± 1.5	56.7 ± 1.5
Head gasket thickness (compressed)		1.2 (0.047)	1.81 (0.072)	1.73 (0.068)
Minimum combustion chamber volume (cm³)		51.096	Clearance Volume 37.56	Clearance Volume 70.66
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 (a)		
Total dressed engine mass (wt) dry**		116.3 (256.3)	128.1 (282.4)	133.3 (293.8)

Engine - Pistons

Material	Aluminum	Aluminum w/Lead Coating	Aluminum Alloy
Mass, g (weight, oz.) - Piston Only	340 ± 1.5 (11.99)	365 ± 8 (12.9)	455 ± 2 (16.0)

Engine - Camshaft

Location		Block	Overhead	
Material		Cast Iron	Chilled Iron	Hardenable Cast Iron
Mass (kg., weight, lbs.)		2.195 (4.839)	11.46 (5.2)	3.352 (7.750)
Type of drive (chain or belt)	Width	Chain 22.86 (0.900)	18.4/19.8 (0.724/0.780)	Belt 23.8/25.2 (0.937/0.992)
	Pitch	9.525 (0.375)	9.525 (0.375)	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.

(a) Shelby Charger: 91 Octane Recommended for Best Performance.

(b) Shelby Charger: 236.2 (9.3)

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Engine - Valve System

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

Engine - Connecting Rods

Material & mass (kg., weight, lbs.)	Forged Steel 0.554 (1.221)	Forged Steel	Forged Steel 0.691 (1.52)

Engine - Crankshaft

Material	Forged Steel	Nodular Iron	
Mass (kg., weight, lbs.)	11.244 (24.788)		16.53 (36.450)
End thrust taken by bearing (no.)	Three		

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	500 (72.5) @ 3000	400 to 600 (60 to 90) @ 2000	345 (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.)	3.3 (3.5)	3.8 (4)	

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 Description/Carb. Engine Code	1.6 L (97.1 in.³) 2 bbl., E82	1.7 L (104.7 in.³) 2 bbl., E12	2.2L (135.0 in.³) 2 bbl., E62

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	
	Choke (type)		Electric	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	875	900 (a)
		Automatic	—	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	
	Optional		—	
Fuel pump	Type (elec. or mech.)		Mechanical	
	Location (eng. tank)		Engine: 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	—

(a) Shelby Charger: 850

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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)			Standard		
Coolant fill location (rad., bottle)			Bottle		
Radiator cap relief valve pressure [kPa (psi)]			110.3 ± 3.5 (14 - 17)		
Circulation thermostat	Type (choke, bypass)		Choke, Pellet	(a)	Choke, Pellet
	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)		Multi-Groove Belt	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.)		6.6 (7.0)	5.7 (6.0)	8.2 (8.7)
	With air cond. - L(qt.)		—		
	Opt. equipment [specify - L(qt.)]		—	5.7 (6.0)	8.2 (8.7)
Water jackets full length of cyl. (yes, no)					
Water all around cylinder (yes, no)					
Radiator core	Standard	Width	457.2 (18)		521 (20.5)
		Height	389 (15.3)		389 (15.3)
		Thickness	20.6 (0.7)		20.6 (0.7)
		Fins per inch	13		15
	A/C	Width	N.A	521 (20.5)	
		Height	—	389 (15.3)	
		Thickness	—	17.8 (0.70) Man. Trans.; 31.8 (1.25) Auto. Trans.	
		Fins per inch	—	16	
	Heavy duty	Width	N.A	N.A.	
		Height	—	—	
		Thickness	—	—	
		Fins per inch	—	—	
Fan (standard)	Number of blades & type (flex, solid, material)		2-Blade, Metal		
	Diameter & projected width		317 (12.5)		
	Ratio (fan to crankshaft rev.)		—		
	Fan cutout type		Electric Motor		
	Drive [type (direct, remote)]				
	Fan shroud (material)		Metal		
Fan (electric)	Diameter & projected width		317 (12.5)		
	RPM at idle		1800		
	Motor rating (wattage)		60		
	Motor switch (type & location)		Bi-Metal/Radiator		AC
	Switch point (temp., pressure)		200°F		
	Fan shroud (material)		Metal		
Fan (optional)	No. of blades and spacing		—	2 Blade, Metal	
	Diameter & projected width		—	356 (14)	
	Ratio (fan to crankshaft rev.)		—	150 Watts @ 1720 RPM	
	Fan cut-out (type)		—	Electric Motor	
	Drive (type, direct, remote)		—		

(a) Spring Loaded Engine Bypass

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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		
	Air Injection	Pump (type)	Positive Displacement Rotary Vane		
		Driven by	V-Belt		
		Air distribution (head, manifold, etc.)	Single Entry		
		Point of entry	Exhaust Manifold Outlet Cold; Catalytic Converter 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		
		Number of	2	1	
		Location(s)	(a)	Under Seat	Below Exh. Manifold
		Volume [L (in³)]	1.72 (105) 3WC + 1.48 (90) Oxidation (2.2 L: 0.74 (45) Oxidation) (b)		
		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		

Engine - Exhaust System

(a) Below Exhaust Manifold and Under Seat
(b) 1.7 L: 1.8 (110) 3WC + 1.15 (70) Oxidation

Type (single, single with cross-over, dual, other)		Single: 150 in.³ Front + 90 Rr Converter	Single (a)	Single (b)
Muffler no. & type (reverse flow, straight thru, separate resonator)		One, Reverse Flow (All Aluminized Steel) (c)		
Resonator no. & type		None (d)		
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	1.6 L/2.2 L: 47.8 x 1.1 (1.88 x 0.043); 1.7 L: 38.0 x 1.1 (1.5 x 0.043)		
	Material	Stainless Steel		
Tail pipe	o.d. & wall thickness	1.6 L/2.2 L: 47.8 x 1.1 (1.88 x 0.043); 1.7 L: 38.0 x 1.1 (1.5 x 0.043)		
	Material	Aluminized Steel		

(a) 180 in.³ Rear Catalytic Converter with Air Injection: No Front Converter
(b) 150 in.³ Front Catalyic Converter with Air Injection
(c) Charger 2.2: None
(d) Charger 2.2, Shelby Charger: One Str Thru (Alum. Steel)

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Electrical - Supply System

Battery	Voltage rtg. (V & total plates)	12V, 54 Plates		
	Minimum reserve cranking	62 Minutes		
	SAE capacity (amps)	335 Amp		
	Location	Left Front Fender Side Shield		
Alternator	Type and rating	65 Amp	60 Amp	
	Ratio (alt. crank/rev.)	2.5:1	2.25:1	
	Optional (type & rating)	—	78 Amp	
Regulator	Type	Voltage Control		

Electrical - Starting System

Start. motor	Current drain at −10°F	180 - 210A	200 - 230A	220 - 250A
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)		Combustion Computer with Feedback Carburetor Controller		
Coil	Make		Essex or Prestolite		
	Model		4111468	4111467	
	Current	Engine stopped — A	3.0A		
		Engine idling — A	1.9A		
Spark plug	Make		Mopar	Champion	
	Model		65PR	RN12YC	
	Thread (mm)		14mm		
	Tightening torque [N-m (lb., ft.)]		28 (20)		
	Gap		0.89 (0.035)		
Distributor	Make		Chrysler		
	Model		5213575	5206945	5206975

Electrical - Suppression

Locations & type	

Electrical - Instruments and Equipment

Speed-ometer	Type	Magnetic Torque Drive
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		—
Charge indicator	Type	Ammeter (Shunt Type)
	Warning device	—
Temperature indicator	Type	Light (Engine)*
	Warning device	—
Oil pressure indicator	Type	Light (Engine)*
	Warning device	—
Fuel indicator	Type	Electric Thermal
	Warning device	—
Wind-shield wiper	Type (standard)	Non-Depress Electric 2-Speed (w/Pulse Wipe)
	Type (optional)	Electric 2-Speed Intermittent Wipe
	Blade length	406.4 (16)
	Swept area [cm²(in.²)]	4-Door: 4755 (737); 2-Door: 4741 (735)
Wind-shield washer	Type (standard)	Electric
	Type (optional)	—
	Fluid level indicator	—
Horn	Type	Four-Inch - Sea Shell
	Number used	Two Standard
Other		

*Indicates High Coolant Temperature or Low Oil Pressure

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Engine Description/Carb. Engine Code	**1.6 L (97.1 in.³) 2 bbl., E82**

Transmissions

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

Manual Transmission

Number of forward speeds			4	5
Transmission ratios	In first		3.29	3.29
	In second		1.89	1.89
	In third		1.21	1.21
	In fourth		.88	.88
	In fifth		—	.72
	In overdrive		—	—
	In reverse		3.14	3.14
Synchronous meshing (specify gears)			All Forward Gears	
Shift lever location			Floor	
Lubricant	Capacity [L (pt.)]		1.77 (3.75)	2.15 (4.55)
	Type recommended		Mopar Dexron II Automatic Transmission Fluid	
	SAE viscosity number	Summer		
		Winter		
		Extreme cold		

Clutch (Manual Transmission)

Make & type			Auto Products Dry Disc	Luk, Dry Disc
Type pressure plate springs			Belleville	
Total spring load [N (lb.)]			3550-4800 (798-1079)	4200-5950 (944-1338)
No. of clutch driven discs			One	
Clutch facing	Material		Woven Asbestos	
	Manufacturer		Ferodo	Ferodo Raybestos
	Part number		57740	A319066500 A319069400
	Rivets/plate		18	16
	Rivet size		7.54 (0.297)	9.5 (0.374)
	Outside & inside dia.		200 x 136.3 (7.87 x 5.36)	200 x 134 (7.87 x 5.27)
	Total eff. area [cm²(in.²)]		336.2 (52.11)	346 (53.67)
	Thickness		3.24 (0.127)	3.25 (0.128)
	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 with Fiber Friction Washer	

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Engine Description/Carb. Engine Code	1.7 L (104.7 in.³) 2 bbl., E12

Transmissions

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

Manual Transmission

Number of forward speeds			4
Transmission ratios	In first		3.45
	In second		1.94
	In third		1.29
	In fourth		0.97
	In fifth		—
	In overdrive		—
	In reverse		3.17
Synchronous meshing (specify gears)			All Forward Gears
Shift lever location			Floor
Lubricant	Capacity [L (pt.)]		1.25 (2.6)
	Type recommended		Mopar Dexron II Automatic Transmission Fluid
	SAE viscosity number	Summer	90 or 80W-90 Above −10°F
		Winter	80 or 80W-90 −30°F
		Extreme cold	75W Below −30°F

Clutch (Manual Transmission)

Make & type		Borg & Beck Dry Disc	Luk, Dry Disc
Type pressure plate springs		Belleville	
Total spring load [N (lb.)]		3888-4631 (874-1041)	3850-4450 (865-1000)
No. of clutch driven discs		One	
Clutch facing	Material	Woven Asbestos	
	Manufacturer	U.S. Raybestos	Ferodo
	Part number	165-10559	A3190-371
	Rivets/plate	16	
	Rivet size	7.42 (0.292)	7.5 (0.295)
	Outside & inside dia.	190 x 134.5 (7.48 x 5.30)	190 x 134 (7.48 x 5.28)
	Total eff. area [cm²(in.²)]	282.9 (43.8)	285 (44.2)
	Thickness	3.43 (0.135)	3.5 (0.137)
	Engagement cushion method	Wave Spring Segments	
Release bearing	Type & method of lubrication	Ball Thrust Bearing Lubed by Transmission Oil	
Torsional damping	Method: springs, friction material	Coil Springs and Steel Friction Washers	Coil Springs and Fiber Friction Washers

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Engine Description/Carb. Engine Code	**2.2 L (135 in.³) 2 bbl., E62**

Transmissions

Manual 3-speed (std., opt., n.a.)	N.A.
Manual 4-speed (std., opt., n.a.)	Std.
Manual 5-speed (std., opt., n.a.)	Opt. (Std. Shelby Charger)
Manual overdrive (std., opt., n.a.)	N.A.
Automatic (std., opt., n.a.)	Opt.
Automatic overdrive (std., opt., n.a.)	N.A.

Manual Transmission

Number of forward speeds			4	5
Transmission ratios	In first		3.29	3.29
	In second		1.89	1.89
	In third		1.21	1.21
	In fourth		.88	.88
	In fifth		—	.72
	In overdrive		—	—
	In reverse		3.14	3.14
Synchronous meshing (specify gears)			All Forward Gears	
Shift lever location			Floor	
Lubricant	Capacity [L (pt.)]		1.77 (3.75)	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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Car Line DODGE OMNI/CHARGER

Model Year 1983 Issued 7-19-82 Revised (*) 10-22-82

Engine Description/Carb. Engine Code	1.7 L (104.7 in.³) 2 bbl., E12	2.2 L (135.0 in.³) 2 bbl., E62

Automatic Transmission

Trade name		Torqueflite	
Type (describe)		Torque Converter with Automatically Operated Planetary Transmission and Parallel Axes Final Drive	
Selector	Location	Floor 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)]		95.7 (59.5)	108 (67)
Max. kickdown speed - drive range [km/h (mph)]		88.7 (55.1)	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.)]	7.93 (16.75)	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		2.78 (a)	2.20	2.57	2.69	2.78	3.02	3.37	3.48
No. of teeth	Pinion	14	19	16	19	18	21	18	19
	Ring gear or gear	54	58	57	58	55	60	54	54
Ring gear o.d.		201.04(7.91)	191.36(7.53)	198.05(7.97)	191.36(7.53)	187.6(7.39)	184.45(7.26)		184.45(7.26)
Transaxle	Transfer gear ratio	—	—	—	—	0.912	1.06	—	1.22
	Final drive ratio	3.87	3.05	3.56	3.05	3.05	2.86	3.00	2.84
		Manual				Automatic		Manual	Automatic

(a) Shelby Charger

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Car Line **DODGE OMNI/CHARGER**

Model Year **1983** Issued **7-19-82** Revised (•) _____

Engine Description/Carb. Engine Code	1.6 L (97.1 in.³) 2 bbl., E82	1.7 L (104.7 in.³) 2 bbl., E12	2.2 L (135.0 in.³) 2 bbl., E62

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 (a)	Manual transmission	Left	27 x 345.5 (1.06 x 13.60)	27 x 377 (1.06 x 14.84)	27 x 341 (1.06 x 13.43)
		Right	40.5 x 595.3 x 2.7 (1.59 x 23.44 x 0.106)	40.5 x 560.7 x 2.7 (1.59 x 22.07 x 0.106)	40.5 x 592.8 x 2.7 (1.59 x 23.34 x 0.106)
	Automatic transmission	Left	N.A.	Same as Above	
		Right	N.A	Same as Above	
	Optional transmission	Left	27 x 345.5 (1.06 x 13.60)		
		Right	40.5 x 595.3 x 2.7 (1.59 x 23.44 x 0.106)		
Slip yoke	Type		—		
	Number of teeth		—		
	Spline o.d.		—		
Universal joints	Make and mfg. no.	Inner	G.K.N. - GI69		G.K.N. - G.I.72
		Outer	G.K.N. - 87AC		G.K.N. - 95AC
	Number used		Two		
	Type, size, plunge	Inner	Tripode Plunge		
		Outer	Rzeppa-Fixed		
	Attach (u-bolt, clamp, etc.)		—		
	Bearing — Type (plain, anti-friction)		—		
	Bearing — 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.

(a) Lengths to nearest millimeter (inch)

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Car Line DODGE OMNI/CHARGER

Model Year 1983 Issued 7-19-82 Revised (•) 10-22-82

Engine Description/Carb. Engine Code	ALL EXCEPT CHARGER 2.2	CHARGER 2.2

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P175/75 R 13, B, 2/2	P195/60 R 14, B, 2/2 (a)
	Type (bias, radial, etc.)		Glass Radial	Steel Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	241 (35)	
		Rear [kPa (psi)]	241 (35)	
	Rev./mile - at 70 km/h (45 mph)		897	900
Wheels	Type & material		Disc Steel	
	Rim (size & flange type)		13 x 5.0 JB	14 x 5.5 JJ (b)
	Wheel offset		40 (1.6)	
	Attachment	Type (bolt or stud)	Stud	
		Circle diameter	100 (3.94)	
		Number & size	4 - M12 x 1.5 mm	
Spare	Tire and wheel (same, if other describe)		P165/75 D 13 Low Mileage Spare (Shelby Charger: P195/50 R 15)	
	Storage position & location (describe)		Horizontal - Rear Floor Pan Under Cargo Floor	

Tires And Wheels (Optional)

Size (load range, ply)	P175/75 R 13, B, 2/2
Type (bias, radial, etc.)	Steel Radial
Wheel (type & material)	Disc Steel
Rim (size, flange type and offset)	13 x 5.0 JB 40 (1.6)
Size (load range, ply)	P195/60 R 14, B, 2/2
Type (bias, rdial, etc.)	Steel Radial
Wheel (type & material)	Aluminum
Rim (size, flange type and offset)	14 x 5.5 JB 40 (1.6)
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)	

Brakes - Parking

Type of control		Hand Release Lever
Location of control		Floor, Between Front Seats
Operates on		Rear Wheels
If separate from service brakes	Type (internal or external)	—
	Drum diameter	—
	Lining size (length x width x thickness)	—

(a) Shelby Charger: P195/50 R 15, B, 2/2
(b) Shelby Charger: 15 x 6 JJ

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Car Line DODGE OMNI/CHARGER

Model Year 1983 Issued 7-19-82 Revised (•) 10-22-82

Body Type And/Or Engine Displacement	SHELBY CHARGER	OMNI/CHARGER

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)			No 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 (63.85)	391.44 (60.67) •
Gross lining area [cm²(in.²)]**				438.98 (68.04)	417.58 (64.73) •
Swept area [cm²(in.²)]***				1632.57 (253.05)	1302.97 (201.96) •
Rotor	Outer working diameter		F	256.2 (10.09)	228 (8.98) •
			R	—	
	Inner working diameter		F	158.2 (6.23)	153 (6.02) •
			R	—	
	Thickness		F	24.0 (0.945)	12.64 (0.498) •
			R	—	
	Material & type (vented/solid)		F	Damped Cast Iron, Vented	Damped Cast Iron, Solid •
			R	—	
Drum	Diameter (nominal)		F	—	
			R	200 (7.87)	
	Type and material			Cast Composite	
Wheel cylinder bore	Front			—	48 (1.89)
	Rear			14.27 (0.562)	15.87 (0.625) •
Master cylinder	Bore			21.00 (0.827)	
	Stroke			32.79 (1.291)	
Pedal arc ratio (Nom.)				4.22:1 Power	
Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]				9.31 (1350) Power	
Lining clearance per shoe	Front			No Major Adjustment	
	Rear			No Major Adjustment	
Brake lining	Front wheel (a)	Bonded or riveted (rivets/seg.)		Riveted 6/Shoe	Riveted 5/Shoe •
		Rivet size		4.65 (0.18) Dia. x 7.5 (0.3)	3.56 (0.14) Dia. x 7.57 (0.3) •
		Manufacturer		Bendix	
		Lining code		—	
		Material		Molded Metallic	
		**** Size	Primary or out-board	4970 x 11.08 (7.70 x 0.436)	3987 (6.18 x 0.486) •
			Secondary or in-board	4970 x 11.08 (7.70 x 0.436)	3987 (6.18 x 0.486) •
		Shoe thickness (no lining)		5.33 (0.210)	Outer: 4.83 (0.190); Inner: 5.18 (0.204) •
	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)	

(a) Area x Thickness

* 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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Car Line DODGE OMNI/CHARGER

Model Year 1983 Issued 7-19-82 Revised (•) 10-22-82

Body Type And/Or Engine Displacement	24	44

Steering

Manual (std. opt., n.a.)					Standard	
Power (std., opt., n.a.)					Optional (N.A with 1.6 L Engine) (a)	
Adjustable steering wheel (tilt, swing, other)		Type and description			—	
		(Std., opt., n.a.)			Not Available	
Wheel diameter		Manual			381 (15)	
		Power			381 (15)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)			11.9 (39.0) L; 12.4 (40.6) R	11.9 (39.1) L; 12.4 (40.8) R
		Curb to curb (l. & r.)			11.1 (36.4) L; 11.6 (38.1) R	11.3 (37.2) L; 11.9 (39.0) R
	Inside rear	Wall to wall (l. & r.)			6.5 (21.2) L; 7.1 (23.2) R	6.9 (22.5) L; 7.5 (24.5) R
		Curb to curb (l. & r.)			6.7 (22.1) L; 7.3 (24.0) R	7.0 (22.8) L; 7.6 (24.8) R
Manual	Gear	Type			Rack and Pinion	
		Make			Cam Gears	
		Ratios	Gear		—	
			Overall		22:1	
	No. wheel turns (stop to stop)				3.6	
Power	Type (coaxial, linkage, etc.)				Integral Power Gear	
	Make				Saginaw	
	Gear	Type			Rack and Pinion with Integral Unit	
		Ratios	Gear		—	
			Overall		18:1 (b)	
	Pump (drive)				Pulley Belt Off Crankshaft	
	No. wheel turns (stop to stop)				2.88 (c)	
Linkage	Type				Rack and Pinion Type (Rod and Ball Joint Direct Attach 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.)				13.363	
	Bearings (type)	Upper			Acetal Thermoplastic Bearing	
		Lower			Ball Joint	
		Thrust			Acetal Thermoplastic Bearing	
Steering spindle & joint type					Iso-Strut with Lower Ball	
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				—	

(a) Std. on Shelby Charger
(b) Shelby Charger: 14:1
(c) Shelby Charger: 2.5

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Car Line **DODGE OMNI/CHARGER**

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Body Type And/Or Engine Displacement	24	44

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+0.9 to +2.9 Max. Diff 1.5	+0.4 to +2.4 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	Same as Above	
		Toe-in	Same as Above	
	Periodic M.V. inspection	Caster	—	
		Camber	—	
		Toe-in	—	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	−1/4 to −1-1/4	
		Toe-in [outside track-mm (in.)]	3.5 (0.14) Toe-Out to 8.4 (0.33) Toe-In	
	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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Car Line **DODGE OMNI/CHARGER**

Model Year **1983** Issued **7-19-82** Revised (•) **10-22-82**

Body Type And/Or Engine Displacement	24	44	44	24 (a)
	Standard (S12)		Heavy Duty (S13)	Firm Feel (S14)

Suspension - General

Car leveling	Std./opt./n.a.	Not Available
	Type (air, hyd., etc.)	—
	Manual/auto. controlled	—
Provision for brake dip control		Inclined Control Arm and Strut
Provision for accl. squat control		None
Special provisions for car jacking		Sill Jacking: Scissors-Type Sill Jack, Jack Supports Located at Each End of Body Side Sills
Shock absorber (front & rear)	Type	Direct
	Make	Front: Delco or Monroe; Rear: Gabriel
	Piston diameter	Front: 32 (1.26); Rear: 25.4 (1.00)
Other special features		Offset Spring, Camber Adjustment, Negative Scrub Radius

Suspension - Front

Type and description		Iso-Strut				
Travel	Full jounce	77 (3.0)	75 (2.9)	82 (3.2)	84 (3.3)	60 (2.4) (c) •
	Full rebound	97 (3.8)	99 (3.9)	92 (3.6)	90 (3.5)	64 (2.5) (c) •
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.) 210 x 152 I.D. (8.27 x 6.0 I.D.) @ Curb (c) •				
	Spring rate [N/mm (lb./in.)]	14.9 (85)		21.0 (120)		25.4 (145) (c) •
	Rate at wheel [N/mm (lb./in.)]	18.4 (105)		24.5 (140)		29.6 (169) (c) •
Stabilizer	Type (link, linkless, frameless)	Linkless				
	Material & bar diameter (a)	AISI 1095 Spring Steel; 22 (0.866) (b)			25.4 (1.0)	

Suspension - Rear

Type and description		Semi Independent Trailing Arm Type			
Drive and torque taken through		—			
Travel	Full jounce	40 (1.6)	59 (2.3)	71 (2.8)	52 (2.0)
	Full rebound	157 (6.2)	138 (5.4)	111 (4.4)	130 (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.)	Design Height: 247 I.D.: 85; Wire Dia.: 10.4		Design Height: 247 I.D.: 85; 266 I.D.:85 @ Curb (c) •	
	Spring rate [N/mm (lb./in.)]	15.8 (90)		19.3 (110)	23.6 (135) (c) •
	Rate at wheel [N/mm (lb./in.)]	16.2 (93)		19.8 (113)	24.2 (138) (c) •
	Mounting insulation (type)	Rubber			
	If leaf: No. of leaves	—			
	If leaf: Shackle (comp. or tens.)	—			
Stabilizer	Type (link, linkless, frameless)	None			Frameless
	Material & bar diameter	—			HSLA Steel; 16 (0.63)
Track bar (type)		None			None

(a) Std. Charger 2.2 (b) 25.4 (1.0) Std. with Steel Belted Tires (c) Shelby Charger •

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Car Line **DODGE OMNI/CHARGER**

Model Year **1983** Issued **7-19-82** Revised (*) _____

Body Type	24	44

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		Buffable Acrylic Enamel	
Hood	Hinge location (front, rear)	Rear	
	Type (counterbalance, prop)	Prop	
	Release control (internal, external)	Internal	
Trunk lid	Type (counterbalance, other)	Gas Pressurized Struts	
	Internal release control (elec., mech., n.a.)	Mechanical	
Bumper front	Bar material & mass (wt.)	Urethane Fascia 12.2 (5.5)	Aluminum Extrusion 3.9 (8.6)
	Reinforcement material & mass (wt.)	Steel 12.7 (28.0)	None
Bumper rear	Bar material & mass (wt.)	Urethane Fascia 3.6 (8.0)	Aluminum Extrusion 3.9 (8.6)
	Reinforcement material & mass (wt.)	Steel 9.5 (21.0)	None
Vent window control (crank, friction, pivot, power)	Front	None	
	Rear	None	
Seat cushion type	Front	Zig-Zag Element Platform with Full Volume Foam	
	Rear	Full Volume Foam	
	3rd seat	—	
Seat back type	Front	Full Foam	
	Rear	Full Foam	
	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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Car Line **DODGE OMNI/CHARGER**

Model Year **1983** Issued **7-19-82** Revised (*) _____

Body Type	ALL

Convenience Equipment

Power windows	Side windows	N.A.
	Vent windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability		N.A.
Reclining front seat back (r-l or both)		Opt. - Left and Right Buckets
Radio (specify type as well as availability)		Std. AM, AM/FM Stereo w/Cassette - Opt.
Premium sound system (specify)		N.A.
Rear seat speaker		Inc. with Stereo Only
Power antenna		N.A.
Clock		Std.
Air conditioner (specify type)		Opt.
Speed warning device		N.A.
Speed control device		Opt.
Ignition lock lamp		Opt.
Dome lamp		Std.
Glove compartment lamp		Opt.
Luggage compartment lamp		Opt.
Underhood lamp		N.A.
Courtesy lamp		Opt.
Map lamp		Opt.
Cornering lamp		N.A.
Rear window defroster electrically heated		Opt.
Rear window defogger		N.A.
T-bar roof (describe)		N.A.
Sun roof (describe)		Opt.
Theft protection - type		Inside Hood Release - Std.
		Locking Steering Column - Std.
		Locking Gas Cap - Opt.
Power rear hatch release		Opt.
Liftgate wash/wipe		Opt.

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Car Line DODGE OMNI/CHARGER
Model Year 1983 Issued 7-19-82 Revised (•) _____

FEATURE HIGHLIGHTS

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

BODY:

- NEW LOWBACK CLOTH AND VINYL BUCKET SEAT
  - ALL BUCKET SEATS INCORPORATE RECLINER FEATURES
  - FREE STANDING ARMREST
- NEW CONSOLE (2-DOOR MODELS ONLY)
- NEW TETHERED GAS CAP (NOT AVAILABLE 2-DOOR MODELS)

CHASSIS:

- NEW CHRYSLER CORPORATION 5-SPEED MANUAL TRANSMISSION
- NEW SELF ADJUSTING REAR DRUM BRAKES

ENGINE:

- NEW 1.6 L (97.1 IN.^{3}) 4-CYLINDER PUEGOT SOCIETE ANONYME (PSA)

ELECTRICAL:

- NEW 335-AMP MAINTENANCE FREE BATTERY

OTHER:

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Car Line **DODGE OMNI/CHARGER**

Model Year **1983** Issued **7-19-82** Revised (•) **12-1-82**

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 MODEL								
1.6 L ENGINE (97.1 in.³)								
CHARGER ***	620	390	1010	47.9	52.1	20.5	79.5	983
2-Door Hatchback	(1366)	(861)	(2227)					(2167)
OMNI ***	613	374	987	49.6	50.4	20.0	80.0	960
4-Door Hatchback	(1352)	(825)	(2177)					(2117)
OMNI CUSTOM ***	612	387	999	49.6	50.4	20.0	80.0	972
4-Door Hatchback	(1348)	(854)	(2202)					(2142)
2.2 L ENGINE (135 in.³)								
CHARGER 2.2	662	404	1066	47.9	52.1	20.5	79.5	1039
2-Door Hatchback	(1459)	(891)	(2350)					(2290)
OPTIONAL ENGINE MODELS:								
1.7 L (104.7 in.³)								
OMNI	606	364	970	49.6	50.4	20.0	80.0	943
4-Door Hatchback	(1335)	(804)	(2139)					(2079)
OMNI CUSTOM	606	373	979	49.6	50.4	20.0	80.0	952
4-Door Hatchback	(1335)	(824)	(2159)					(2099)
CHARGER	614	385	999	47.9	52.1	20.5	79.5	972
2-Door Hatchback	(1354)	(849)	(2203)					(2143)
2.2 L ENGINE (135 in.³)								
OMNI	633	363	997	49.6	50.4	20.0	80.0	970
4-Door Hatchback	(1396)	(802)	(2198)					(2138)
OMNI CUSTOM	633	373	1006	49.6	50.4	20.0	80.0	979
4-Door Hatchback	(1396)	(822)	(2218)					(2158)
CHARGER	642	384	1026	47.9	52.1	20.5	79.5	999
2-Door Hatchback	(1415)	(847)	(2262)					(2202)

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 -

*** Estimated Weight

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

Car Line DODGE, SHELBY CHARGER

Model Year 1983 1/2 Issued 10-18-82 Revised (*) _____

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 MODEL								
2.2 L High Output (135 in.³)								
SHELBY CHARGER	676	407	1083	47.9	52.1	20.5	79.5	1056
2-Door Hatchback	(1491)	(897)	(2388)					(2328)

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

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

Car Line **DODGE OMNI/CHARGER**

Model Year **1983** Issued **7-19-82** Revised (•) **12-1-82**

Optional Equipment Differential Mass (weight)*

Equipment	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
Cargo Compt. Dress Up	0	.5	.5	W/Silencer Pkg. - Charger Only
	0	(1)	(1)	
Cargo Compt. Dress Up	0	8.6	8.6	W/Silencer Pkg. - Omni Only
	(0)	(19)	(19)	
Console	2.3	.9	3.2	Charger, Omni & Omni Custom
	(5)	(2)	(7)	
Folding Arm Rest - Center	2.7	.5	3.2	
	(6)	(1)	(7)	
Tonneau Cover	−.5	2.7	2.2	2-Door Models
	(−1)	(6)	(5)	
Automatic Transmission	22.2	−2.2	20.0	1.6 L Engine
	(49)	(−5)	(44)	
Automatic Transmission	17.7	−2.3	15.4	2.2 L Engine - Versus 4-Speed
	(39)	(−5)	(34)	
5 Speed Manual Trans.	3.2	−.5	2.7	1.6 L & 2.2 L Engines (VS 4-Speed)
	(7)	(−1)	(6)	
Battery - 430 Amp.	5.0	−.5	4.5	
	(11)	(−1)	(10)	
Air Conditioning	33.6	−2.8	30.8	1.7 L & 2.2 L Engines
	(74)	(−6)	(68)	
Rear Wipers-Washer	−.5	4.5	4.0	4-Door Models
	(−1)	(10)	(9)	
Undercoating	.9	1.4	2.3	
	(2)	(3)	(5)	
Rear Spoiler	−.9	4.1	3.2	Charger - Std. Charger 2.2
	(−2)	(9)	(7)	
Sun Roof	2.8	4.5	7.3	2-Door Models
	(6)	(10)	(16)	
Luggage Rack	1.8	4.1	5.9	4-Door Models
	(4)	(9)	(13)	
Maximum Cooling	1.4	0	1.4	2.2 L Engine - Non A/C Models
	(3)	(0)	(3)	
Speed Control	1.8	0	1.8	1.7 L & 2.2 L Engines
	(4)	(0)	(4)	
Radio - AM/FM MX-ETR w/Cass.	2.3	2.7	5.0	Charger 2.2
	(5)	(6)	(11)	
Radio - AM/FM MX-ETR w/Cass.	3.6	3.2	6.8	Charger
	(8)	(7)	(15)	
Radio - AM/FM MX-ETR w/Cass.	3.6	.9	4.5	Omni & Omni Custom
	(8)	(2)	(10)	
Power Steering	8.6	.5	9.1	All Engines
	(19)	(1)	(20)	
Conventional Spare	−.5	3.2	2.7	Charger, Omni & Omni Custom
	(−1)	(7)	(6)	
Conventional Spare	−.9	7.7	6.8	Charger 2.2
	(−2)	(17)	(15)	

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

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

Car Line DODGE SHELBY CHARGER

Model Year 1983 1/2 Issued 10-18-82 Revised (*)

ESTIMATED

Optional Equipment Differential Mass (weight)*

Equipment	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
Tonneau Cover	−0.5	2.7	2.2	
	(−1)	(6)	(5)	
Air Conditioning	33.1	−2.3	30.8	
	(73)	(−5)	(68)	
Sun Roof	2.7	4.5	7.2	
	(6)	(10)	(16)	
Maximum Cooling	1.4	0	1.4	Non-AC Model
	(3)	0	(3)	
Speed Control	1.8	0	1.8	
	(4)	0	(4)	
Radio AM/FM Stereo	1.4	2.3	3.7	
	(3)	(5)	(8)	
Radio AM/FM Stereo Cassette	2.3	2.7	5.0	
	(5)	(6)	(11)	
Accessory Floor Mats: Front	1.4	0.5	1.9	
	(3)	(1)	(4)	
Rear	0.5	0.9	1.4	
	(1)	(2)	(3)	
430 Amp Battery	5.0	−0.5	4.5	
	(11)	(−1)	(10)	
Undercoating	0.9	1.4	2.3	
	(2)	(3)	(5)	

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

MVMA Specifications Form
Passenger Car

Car Line DODGE OMNI/CHARGER

Model Year 1983 Issued 7-19-82 Revised (•) 10-22-82

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.	24	44
Width			
Tread (front)	W101	1426 (56.1)	
Tread (rear)	W102	1419 (55.9)	1412 (55.6)
Vehicle width	W103	1694 (66.7)	1670 (65.8)
Body width at Sg RP (front)	W117	1676 (66.0)	1620 (63.8)
Vehicle width (front doors open)	W120	3850 (151.6)	3319 (130.7)
Vehicle width (rear doors open)	W121	—	2762 (108.7)
Length			
Wheelbase	L101	2454 (96.6)	2518 (99.1)
Vehicle length	L103	4402 (173.3)	4187 (164.8) (a) •
Overhang (front)	L104	945 (37.2)	821 (32.3) (a) •
Overhang (rear)	L105	1003 (39.5)	849 (33.4) (a) •
Upper structure length	L123	N.A.	
Rear wheel C/L "X" coordinate	L127	2546 (100.2)	2610 (102.8)
Cowl point "X" coordinate	L125	544 (21.4)	536 (21.1)
Height*			
Passenger distribution (frt./rear)	PD1,2,3	2-Front, 3 Rear	
Trunk/cargo load		None	
Vehicle height	H101	1290 (50.8) (c)	1349 (53.1) •
Cowl point to ground	H114	894 (35.2)	
Deck point to ground	H138	N.A.	
Rocker panel - front to ground	H112	226 (8.9)	213 (8.4)
Bottom of door closed - front to grd.	H133	251 (9.9)	269 (10.6)
Rocker panel - rear to ground	H111	198 (7.8)	226 (8.9)
Bottom of door closed - rear to grd.	H135	—	257 (10.5)
Ground Clearance*			
Front bumper to ground	H102	251 (9.9)	345 (13.6)
Rear bumper to ground	H104	246 (9.7)	277 (10.9)
Bumper to ground [front at curb mass wt.)]	H103	264 (10.4)	359 (14.1)
Bumper to ground [rear at curb mass (wt.)]	H105	338 (13.3)	362 (14.3)
Angle of approach	H106	22.8°	29.3°
Angle of departure	H107	15.6°	18.0°
Ramp breakover angle	H147	10.8°	9.3°
Rear axle differential to ground	H153	N.A.	
Min. running ground clearance	H156	114 (4.5)	124 (4.9)
Location of min. run. grd. clear.		Catalytic Converter	

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 (b) Includes nerf (c) Shelby Charger: 1275 (50.2)

MVMA Specifications Form
Passenger Car

Car Line DODGE OMNI/CHARGER

Model Year 1983 Issued 7-19-82 Revised (•) 10-22-82

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	24 Hi-Back Bucket	44 Low-Back Bucket
Front Compartment			
Sg RP front, "X" coordinate	L31	1420 (55.9)	1409 (55.5)
Effective head room	H61	946 (37.2)	967 (38.1)
Max. eff. leg room (accelerator)	L34	1079 (42.5)	1069 (42.1)
Sg RP (front to heel)	H30	215 (8.5)	240 (9.4)
Design H-point front travel	L17	191 (7.5)	191 (7.5)
Shoulder room	W3	1326 (52.2)	1314 (51.7)
Hip room	W5	1336 (52.6)	1336 (52.6)
Upper body opening to ground	H50	1168 (46.0)	1237 (48.7)
Steering wheel angle	H18	25°	25°
Back angle	L40	26°	26°
Rear Compartment			
Sg RP Point couple distance	L50	667 (26.3)	749 (29.5)
Effective head room	H63	874 (34.4)	937 (36.9)
Min. effective leg room	L51	728 (28.7)	846 (33.3)
Sg RP (second to heel)	H31	273 (10.7)	302 (11.9)
Knee clearance	L48	−96 (−3.8)	−30 (−1.2)
Compartment room	L3	543 (21.4)	631 (24.8)
Shoulder room	W4	1292 (50.9)	1309 (51.5)
Hip room	W6	1172 (46.1)	1178 (46.4)
Upper body opening to ground	H51		1227 (48.3)
Luggage Compartment			
Usable luggage capacity [L (cu. ft.)]	V1	303 (10.7) (a)	297 (10.457) (a)
Liftover height	H195	701 (27.6)	739 (29.1)

All linear dimensions are in millimeters (inches).

(a) Estimated: With Tonneau Cover

MVMA Specifications Form
Passenger Car

Car Line DODGE OMNI/CHARGER

Model Year 1983 Issued 7-19-82 Revised (•) _____

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	24	44

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	613 (24.1)	449 (17.7)
Cargo length at front seat back height	L208	884 (34.8)	1194 (47.0)
Cargo length at floor (front)	L209	1567 (61.7)	1569 (61.8)
Cargo volumne index [m^3($ft.^3$)]	V3	0.971 (34.3)	0.813 (28.7)
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

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line **DODGE OMNI/CHARGER**

Model Year **1983** Issued **7-19-82** Revised (•) _____

Body Type

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front		The center of gauge holes located in front longitudinals approximately 658 mm (25.9 inches) from centerline of front wheels.
Rear		The center of gauge holes located in rear longitudinals approximately 3023 mm (119.0 inches) from centerline of front wheels.
Fiducial Mark Number		
Front	W21	414 (16.3)
	L54	750 (29.5)
	H81	−30.7 (−1.2) bottom surface of longitudinal
	H161	
	H163	
Rear	W22	502 (19.76)
	L55	3114.3 (122.6)
	H82	145 (5.7) 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 OMNI/CHARGER

Model Year 1983 Issued 7-19-82 Revised (•) 10-22-82

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	24	CHARGER 2.2	44

Glass

Backlight slop angle (deg.)	H121	—		—
Windshield slope angle (deg.)	H122	59.5°		53.8°
Tumble-Home (deg.)	W122	25°		20.8°
Windshield glass exposed surface area [cm²(in.²)]	S1	7856 (1218)		7764 (1203)
Side glass exposed surface area [cm²(in.²)]	S2	10436 (1618)	6490 (1006)	10488 (1626) •
Backlight glass exposed surface area [cm²(in.²)]	S3	11326 (1756)		6803 (1054)
Total glass exposed surface area [cm²(in.²)]	S4	29618 (4591)	25672 (3979)	25055 (3883) •
Windshield glass (type)		Laminated Safety Glass		
Side glass (type)		Heat Treated Safety Glass		
Backlight glass (type)		Heat Treated Safety Glass		

Lamps and Headlamp Shape*

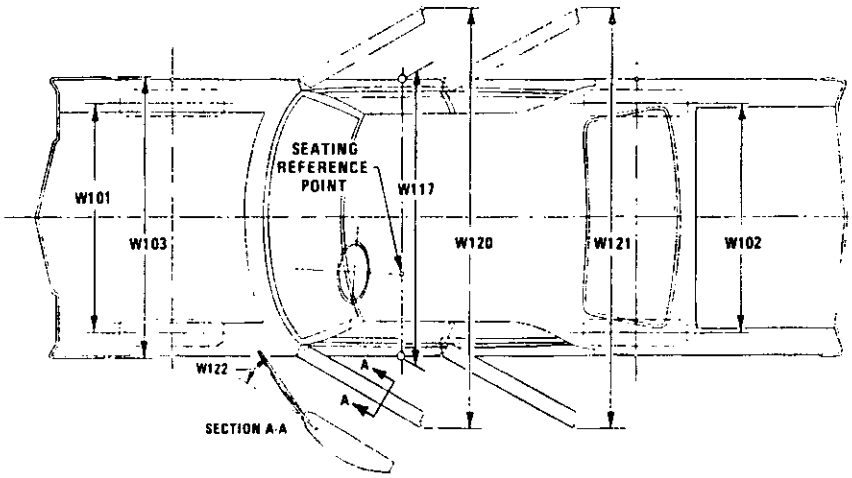
Height above ground to center of bulb or marker	Headlamp (H127)	Highest	640 (25.2)	612 (24.1)
		Lowest		
	Taillamp (H128)	Highest**	564 (22.2)	605 (23.8)
		Lowest		
	Sidemarker	Front	391 (15.4)	617 (24.3)
		Rear	564 (22.2)	602 (23.7)
Distance from C/L of car to center of bulb	Headlamp	Inside		
		Outside**	567 (22.3)	503 (19.8)
	Taillamp	Inside		
		Outside**	661 (26.0)	607 (23.9)
	Directional	Front	572 (22.5)	683 (26.9)
		Rear	335 (13.2)	485 (19.1)
Headlamp shape			Rectangular	

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

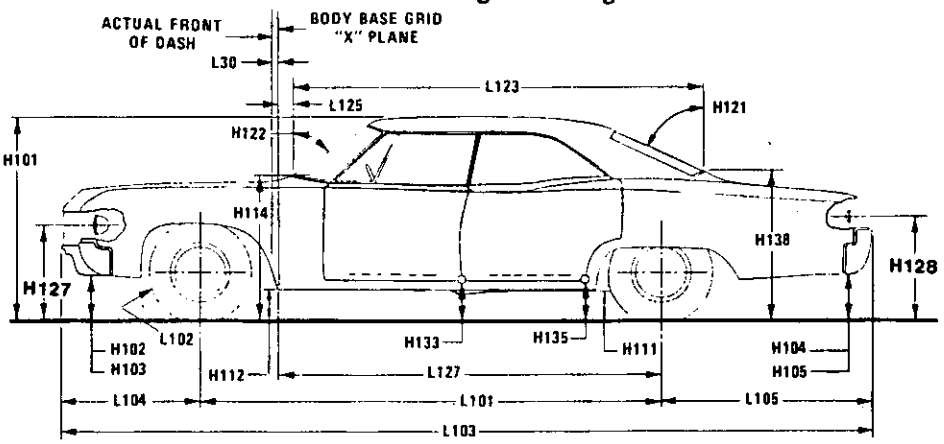
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions — Key Sheet

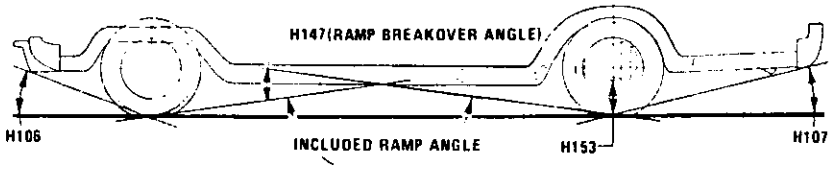
Exterior Width



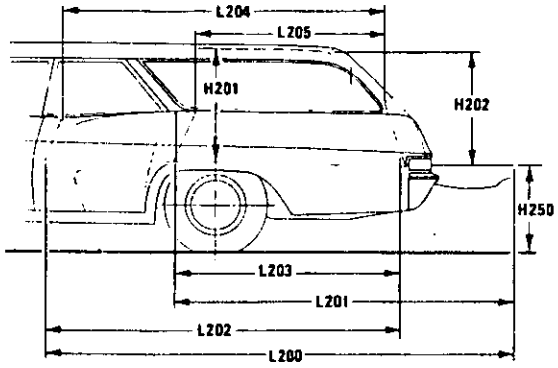
Exterior Length & Height

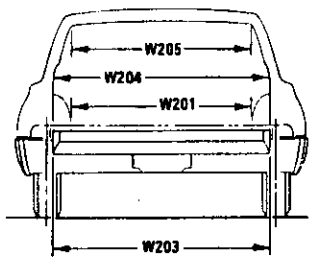


Exterior Ground Clearance

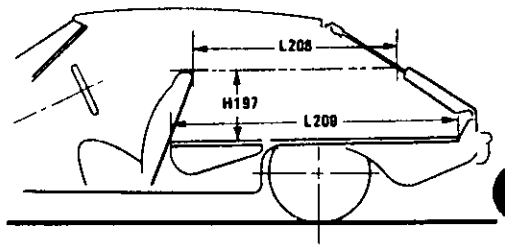


Cargo Space





Station Wagon

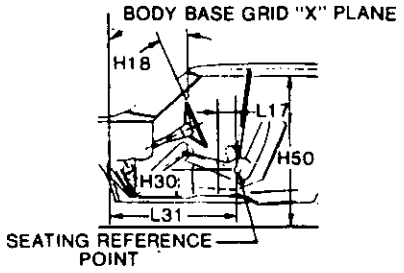


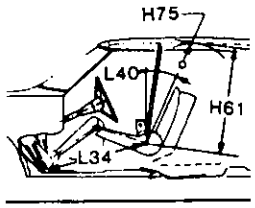
Hatchback

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

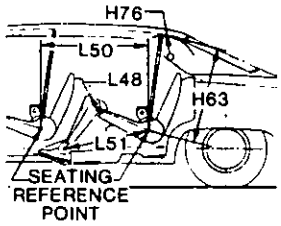
Interior Car And Body Dimensions – Key Sheet

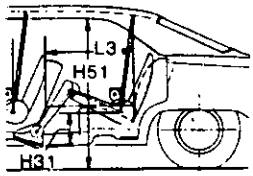
Front Compartment



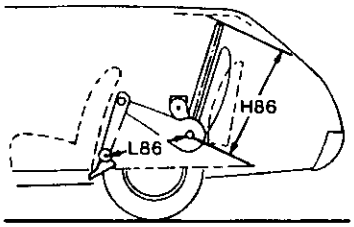


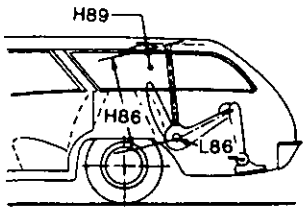
Rear Compartment

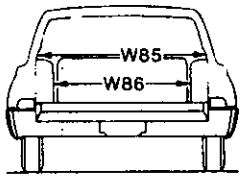




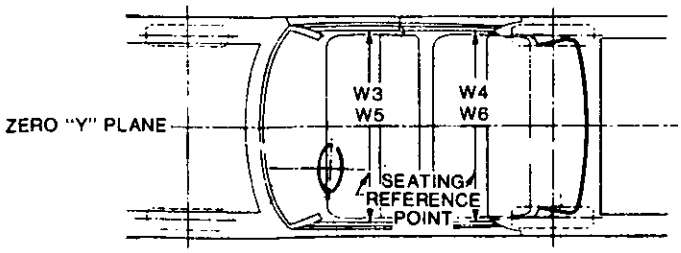
Third Seat







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.

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

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

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

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

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

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

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

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

Front Compartment Dimensions

PD1 PASSENGER DISTRIBUTION—FRONT.

L31 SgRP—FRONT "X" COORDINATED.

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

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

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

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

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

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

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

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

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

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

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION—SECOND.

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

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

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

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

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

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

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

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

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

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

Luggage Compartment Dimensions

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

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

Station Wagon – Third Seat Dimensions

PD3 PASSENGER DIRECTION—THIRD.

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

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

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

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

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

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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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