MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1990

Manufacturer	Vehicle Line	
CHRYSLER MOTORS CORPORATION	DODGE OMNI	
Mailing Address		
DETROIT, MICHIGAN 48288	Issued 9-15-89	Revised

Direct questions concerning these specifications to the manufacturer listed above.

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

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

MVMA Specifications Form

METRIC (U.S. Customary)

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⌀ Indicates Format Change From Previous Year

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 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 compilation and are subject to change without notice or incurring obligation by the manufacturer.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised (•) _____

METRIC (U.S. Customary)

Vehicle Origin

Design & Development (company)	Chrysler Motors Corporation
Where built (country)	U.S.A.
Authorized U.S. sales marketing representative	Dodge Division of Chrysler Motors Corporation

Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk Cargo Load - Kilograms (Pounds)
Omni 4 - Door Hatchback FWD	October 1989	ALZE44	5(2/3)	52(115)

* FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive

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Power Teams

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F (25 °C) and 29.61 in. Hg (100 kPa) atmospheric pressure.

			A	B	C	D
ENGINE	Engine Code		EDF	⇐		
	Displacement Liters (in³)		2.2 (135.0)	⇐		
	Induction system (FI, Carb., etc.)		TBI-EFI	⇐		
	Compression ratio		9.5:1	⇐		
	SAE Net at RPM	Power kW (bhp)	69 (93) @ 4800	⇐ ⇐		
		Torque N•m (lb.-ft.)	165 (122) @ 3200	⇐ ⇐		
	Exhaust single, dual		single	⇐		
TRANS	Transmission/ Transaxle		5-speed manual	3-speed automatic		
	Axle Ratio (std. first) (a)		2.55:1	2.78:1		

Series Availability		Power Teams (A-B-C-D)	
Model	Code	Standard	Optional
Omni	ALZE44	A	B

(a) Overall top gear ratio

MVMA Specifications

Vehicle Line **DODGE OMNI**

Model Year **1990** Issued **9-15-89** Revised (•)

METRIC (U.S. Customary)

Engine Description	**2.2L (135.0 in³)**
Engine Code	**EFI, EDF**

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear transverse, longitudinal, sohc,dohc, ohv, hemi, wedge, pre-camber, etc.)		Four cylinder, in-line, SOHC, canted, front, transverse
Manufacturer		Chrysler
No. of cylinders		4
Bore		87.5 (3.44)
Stroke		92.0 (3.62)
Bore Spacing (C / L to C / L)		96.0 (3.78)
Cylinder block material & mass kg (lbs.) (machined)		Cast Iron · 44.23 (97.5)
Cylinder block deck height		237.8 (9.36)
Cylinder block length		418 (16.46)
Deck clearance (minimum) (above or below block)		0.00
Cylinder head material & mass kg (lbs.)		Aluminum 9.71 (21.4)
Cylinder head volume (cm³)		48.5 to 51.5
Cylinder liner material		N.A.
Head gasket thickness (compressed)		1.78 (.070)
Minimum combustion chamber total volume (cm³)		65.31
Cyl. no. system (front to rear)*	L. Bank	R to L as installed - 1, 2, 3, 4
	R. Bank	--
Firing order		1, 3, 4, 2
Intake manifold material & mass [kg (lbs.)]**		Aluminum 2.86 (6.3)
Exhaust manifold material & mass [kg (lbs.)]**		Cast Iron 6.08 (13.4)
Fuel required, unleaded, diesel, etc.		Unleaded regular
Fuel antiknock index (R + M) ÷ 2		87 or higher
Engine mounts	Number	3
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.	Natural Rubber
	Added isolation (sub-frame, crossmember, etc.)	None
Total dressed engine mass (wt) dry***		142.26 (313.0)

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum 445 (15.7)

Engine - Camshaft

Location		Overhead
Material & mass kg (weight, lbs.)		Post-hardened nodular iron 2.68 (5.9)
Drive type	Chain/belt	Belt
	Width/pitch	23.8/9.52 (0.937/0.375)

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

** Finished state

*** Dressed engine mass (weight) includes the following: starter, alternator, manifolds, water pump, engine mounted emissions controls, power steering pump, drive belts, oil filter, right engine mount, and throttle controls as required.

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METRIC (U.S. Customary)

Engine Description	**2.2L (135.0in³)**
Engine Code	**EFI, EDF**

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)		Std.
Valves	Number intake/exhaust	4/4
	Head O.D. intake/exhaust	40.6 / 35.4 (1.60/1.39)

Engine - Connecting Rods

Material & Mass [kg., (weight lbs.)]*	Forged steel 0.65 (1.43)
Ø Length (axes ¢ to ¢) mm	151 (5.94)

Engine - Crankshaft

Material & Mass [kg., (weight lbs.)]*		Nodular iron 15.10 (33.2)
End thrust taken by bearing (no.)		Three
Length & number of main bearings		487.1 (19.2) / 5
Seal (material, one, two piece design, etc.)	Front	Polyacrylic / One piece
	Rear	Fluorocarbon / One piece

Engine - Lubrication System

Normal oil pressure [kPa (psi) at eng. rpm]	172 - 552 (25-80) @ 3000/Fully warmed
Type of intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4)

Engine - Diesel Information

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

Engine - Intake System

Turbo charger - Manufacturer	
Super charger - manufacturer	
Intercooler	

* Finished State

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METRIC (U.S. Customary)

Engine Description	2.2L (135.0 in³) EFI, EDF	
Engine Code	W/O AC	W/AC

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard		
Coolant fill location (rad, bottle)		Fill through radiator and maintain coolant level in bottle		
Radiator cap relief valve pressure [kPa (psi)]		96-124(14-18)		
Circulation thermostat	Type (choke, bypass)	Choke, Pellet Operated		
	Starts to open at °C (°F)	90.6(195)		
Water pump	Type (centifugal, other)	Centrifugal		
	GPM 1000 pump rpm	--		
	Number of pumps	One		
	Drive (V-belt, other)	Multi-Groove Belt		
	Bearing type	Integral Ball Bearing		
	Impeller material	Steel		
	Housing material	Cast Aluminum		
By-pass recirculation [type (inter., ext.)]		External in series with heater		
Cooling system capacity	With heater - L(qt.)	8.0(8.5)		
	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		
Water jackets open at head face (yes, no)		No		
Radiator core	Std. A/C, HD	standard	Man. A/C	Auto. A/C
	Type (cross-flow, etc.)	Cross Flow		
	Construction (fin & tube mechanical, braze, etc.)	Tube & Fin Spacer, Soldered, 1 Row		
	Material, mass [kg (wgt.lbs.)] (a)	Alum., 3.09(6.8) ,man./3.41(7.5) auto.	Alum. 3.14(6.9)	Alum. 3.45(7.6)
	Width	411 (16.2)		
	Height	367 (14.5)		
	Thickness	17.8(0.7)		
	Fins per inch	13	Man. 14	Auto. 19
Radiator end tank material		Brass		
Fan	Std., elec., opt.	Electric		
	Number of blades & type (flex, solid, material)	2-Blade Metal		
	Diameter & projected width	360(14.2) / 46(1.8)		
	Ratio (fan to crankshaft rev.)	--		
	Fan cutout type	Electric Motor		
	Drive type (direct, remote)	--		
	RPM at idle (elec.)	1150	1780	
	Motor rating (wattage) (elec.)	50	130	
	Motor switch (type & location) (elec.)	Thermistor, Water Box & AC clutch		
	Switch point (temp., pressure) (elec.)	99°C (210°F) < 40 mph; 110°C (230°F) > 40 mph		
	Fan shroud (material)	Metal		

(a) Mass (weight) shown is for assembly as purchased.

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Engine Description	**2.2L (135.0 in³) TBI-EFI**
Engine Code	**EDF**

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

Induction type: carburetor, fuel injection system, etc.		Fuel injection
Manufacturer		Holley/Bosch
Carburetor no. of barrels		N.A.
Idle A/F mix.		N.A.
Fuel Injection	Point of injection (no.)	Throttle body (1)
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure [kPa (psi)]	100 (14.5)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	850
	Automatic	850 / Neutral
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water, unregulated
Air cleaner type		Oil wetted paper element
Fuel filter (type/location)		Paper element; Stainless steel canister; Inline underbody
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	In fuel tank
	Pressure range [kPa (psi)]	N.A.
	Flow rate at regulated pressure (L (gal) / hr @ kPa (psi))	81-161 (21-42) @ 12V & 15psi

Fuel Tank

Capacity refill L (gallons)		49 (13)
Location (describe)		Forward of axle
Attachment		Galvanized or terne plated steel strap to floor pan
Material & Mass [kg (weight lbs.)]		Terne plated steel 6.95 (15.3) (a)
Filler pipe	Location & material	Right rear quarter panel, lead dipped steel tube
	Connection to tank	Rubber grommet
Fuel line (material)		Duplex coated steel
Fuel hose (material)		Fuel resistant rubber
Return line (material)		Duplex coated steel
Vapor line (marterial)		Duplex coated steel
Extended range tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
	Selector switch or valve	
	Separate fill	

(a) Includes tank-mounted fuel pump

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METRIC (U.S. Customary)

Engine Description	2.2L (135.0in³) TBI-EFI, EDF			
Engine Code	49 states, man.	49 states, auto.	Cal., manual	Cal, automatic

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		exhaust gas recirculation, engine modifications, catalytic converter			
	Air injection	Pump or pulse	aspirator	N.A.		
		Driven by	pulse	N.A.		
		Air distribution (head, manifold, etc.)	exhaust pressure	N.A.		
		Point of entry	fixed	N.A.		
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	catalytic converter	N.A.		
		Exhaust source	exhaust back pressure-controlled flow			
		Point of exhaust injection (spacer, carburetor, manifold, other)	exh. manifold			
	Catalytic Converter	Type	intake manifold			
		Number of	3-way + oxidation	3-way		
		Location(s)	one			
		Volume [L(in.³)]	below exhaust manifold			
		Substrate type	1.23 + 0.74 (75 + 45)	1.23 + 0.9 (75 + 55)		
		Noble metal type	monolithic			
		Noble metal concentration (g/cm³)	Pt:Rh + Pd (a)	Platinum:Rhodium		
			0.00061:0.00009 + 0.00085	0.00061:0.00009 + 0.00061:0.00007	0.00061:0.00018	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		closed induction system			
	Energy source (manifold vacuum, carburetor, other)		manifold vacuum			
	Discharges (to intake maifold, other)		intake manifold			
	Air inlet (breather cap, other)		air cleaner			
Evaporative emission control	Vapor vented to (crankcase, canister, other)	Fuel tank	canister			
		Carburetor	--			
	Vapor storage provision		canister			
Electronic system	Closed loop (yes/no)		yes - hot engine			
	Open loop (yes/no)		yes - cold engine			

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		single			
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & mass [kg. (weight lbs.)]		one, tri-flow stainless steel 4.85 (10.7) - includes tail-pipe			
Resonator no. & type		none			
Exhaust pipe	Branch o. d., wall thickness	Into catalyst 50.8 x 1.4 (2.00 x 0.055)			
	Main o. d. ,wall thickness	Out of catalyst 50.8 x 1.4 (2.00 x 0.055)			
	Material & mass [kg. (weight lbs.)]	6.35 (14.0) (a)	6.19 (13.4) (a)	6.35 (14.0) (a)	6.19 (13.4) (a)
Intermediate pipe	o. d., & wall thickness	47.8 x 1.2 (1.88 x 0.047)			
	Material & mass [kg. (weight lbs.)]	stainless steel 2.20 (4.85)			
Tail pipe	o. d., & wall thickness	47.8 x 1.1 (1.88 x 0.043)			
	Material & mass [kg. (weight lbs.)]	stainless steel (see muffler assembly)			

(a) Pt = platinum; Rh = rhodium; Pd = palladium
(b) stainless steel (includes catalytic converter)

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METRIC (U.S. Customary)

Engine Description	**2.2L (135.0 in³) / EFI**
Engine Code	**EDF**

Transmissions/Transaxle (Std., Opt., N.A.)

Manual 3-speed (manufacturer/country)	N.A.
Manual 4-speed (manufacturer/country)	N.A.
Manual 5-speed manufacturer/country)	Std./Chrysler-New Process Gear/U.S.
Automatic (manufacturer/country)	Opt./Chrysler/U.S.
Automatic overdrive (manufacturer/country)	N.A.

Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.29
	2nd	2.08
	3rd	1.45
	4th	1.04
	5th	0.72
	Reverse	3.14
Synchronous meshing (specify gears)		All Forward Gears
Shift lever location		Floor
Trans. case mat'l. & mass kg.(lbs.)*		380 Aluminum Die Cast 45.45 (100.0)
Lubricant	Capacity [L (pt.)]	2.1L (4.3pt.)
	Type recommended	ATF, Dextron II

Clutch (Manual Transmission)

Clutch manufacturer		Luk
Clutch type (dry, wet; single,multiple disc)		Dry Disc, single
Linkage (hydraulic,cable,rod,lever,other)		Cable
Max. pedal effort (nom. spring load, new) N (lbs.)	Depressed**	80 (18)
	Released***	120 (27)
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Belleville
Total spring load (nominal, new) N (lbs.)		4400 (989)
Clutch facing	Facing mfgr. & material coding	Valeo F-202
	Facing material & construction	Fiberglass, woven
	Rivets per facing	8
	Outside x inside dia. (nominal)	215 x 154 (8.46 x 6.06)
	Total eff. area [cm² (in²)]****	353.6 (54.8)
	Thickness (pressure plate side/ fly wheel side	3.15/3.15 (0.124/0.124)
	Rivet depth (pressure plate side/ fly wheel side)	1.2/1.2 (0.047/0.047) min.
	Engagement cushion method	Wave spring segments
Release bearing type & method lub.		Angular-contact ball bearing, permanently lubed with grease
Torsional damping method, springs, hysteresis		Coil springs and friction fiber washers,

* Dry weight, includes shift linkage
** Hold down effort
*** Maximum effort at clutch release point of travel.
**** Includes both clutch facings.

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METRIC (U.S. Customary)

Engine Description	**2.2L (135.0 in.³) EFI**
Engine Code	**EDF**

Ø Automatic Transmission/Transaxle

Trade name		Torqueflite
Type and special features (describe)		Electroniclock-up torque converter with automatically operated planetary gear transmission and parallel axis final drive
Gear selector	Location (column, floor, other)	Floor mounted
	Ltr./No. designation (e.g. PRND21)	PRND21
	Shift interlock (yes, no, describe)	No
Gear ratios	1st	2.69
	2nd	1.55
	3rd	1.00
	4th	--
	Reverse	2.10
Max. upshift speed - drive range [km/h (mph)]		123 (77)
Max. kickdown speed - drive range [km/h (mph)]		115 (72)
Min. overdrive speed [km/h (mph)]		--
Torque converter	Number of elements	Three
	Max. ratio at stall	2.15 : 1
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	241 (9.5)
	Capacity factor "K"*	210
Lubricant	Capacity [refill L (pt.)]	8.40 (17.75) - Torque converter, Transmission and Differential
	Type recommended	Mopar ATF Plus (Auto trans. fluid - Type 7176) (a)
Oil cooler (std,opt,n.a.,internal,external,air,liquid)		Std. - w/ AC - in radiator, liquid / w/o AC - external, air
Transmission case material & mass [kg. (lbs.)]**		Die cast aluminum - 57.73 (127.0)(b)

Ø All Wheel / 4 Wheel Drive

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low - range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

* Input speed ÷ √ torque

** Dry weight including torque converter. If other specify.

(a) Dexron II ATF may be used, only if Mopar ATF is not available.

(b) Dry weight, includes shift linkage

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Engine Description	**2.2L (135.0 in³)**
Engine Code	**EFI,EDF**

Ø Axle Ratio and Tooth Combinations (see 'Power Teams' for axle ratio usage)

Effective final drive ratio (or overall top gear ratio)			2.55 (manual trans.)	2.78 (auto. trans.)
Transfer ratio and method (chain, gear, etc.)			--	0.91
Front drive unit	Ring gear o.d.		198.05 (7.80)	187.4 (7.38)
	No. of teeth	Pinion	9	20
		Ring gear	57	61

Ø Front Drive Unit

Description (integral to trans., etc.)		Integral with transmission
Limited slip differential (type)		N.A.
Drive pinion	Type	Helical
	Offset	--
No. of differential pinions		Two
Pinion / differential	Adjustment (shim, etc.)	--
	Bearing adjustment	Shim
Driving wheel bearing (type)		See Wheel Spindle Hub, p. 14
Lubricant	Capacity(L (pt.))	See transaxle
	Type recommended	See transaxle

Ø Axle Shafts - Front Wheel Drive

Manufacturer and number used			Two
Type (straight, solid bar, tubular, etc.)		Left	Solid bar
		Right	Tube
Outer diam. x length* x wall thickness	Manual transaxle	Left	GKN-EUR: 22.90 x 345.5 (0.90 x 13.60)
		Right	GKN-EUR: 40.5 x 595.3 x 2.7 (1.59 x 23.44 x 0.016)
	Automatic transaxle	Left	GKN: 22.9 x 314.2 (0.90 x 12.37)
		Right	GKN: 40.5 x 595.3 (1.59 x 23.44)
	Optional transaxle	Left	--
		Right	--
Slip yoke	Type		--
	Number of teeth		--
	Spline o.d.		--
Universal joints	Make and mfg. no.	Inner	GKN-EUR: G169
		Outer	GKN-EUR: 92 AC
	Number used		Two
	Type, size, plunge	Inner	Tripod plunge
		Outer	Rzeppa - fixed
	Attach (u-bolt, clamp, etc.)		--
	Bearing: Type (plain, anti-friction)		--
	Bearing: Lubrication (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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Body Type	All

Suspension - General

Car leveling	Standard / optional / not avail.	
	Manual / automatic control	
	Type (air / hydraulic)	
	Primary / assist spring	
	Rear only / 4 wheel leveling	
	Single / dual rate spring	
	Single / dual ride heights	
	Provision for jacking	
Shock absorber damping controls	Standard / optional / not avail.	
	Manual / automatic control	
	Number of damping rates	
	Type of actuation (manual/ electric motor / air, etc.)	
	sensors	
	Lateral acceleration	
	Deceleration	
	Acclereration	
	Road surface	
Shock absorber (front & rear)	Type	Direct - Hydraulic
	Make	Front: Monroe or Delco Rear: Maremont
	Piston diameter	Front: 32 (1.26) Rear: 25.4 (1.0)
	Rod diameter	Front: 20 (0.79) Rear: 11.1 (0.44)

Suspension - Front

Type & description		Iso-strut
Travel*	Full jounce	75.0 (2.95)
	Full rebound	99.0 (3.90)
Spring	Type (coil, leaf, other) & material	Coil, AISI 5160 H Chromium steel
	Insulators (type & material)	Compression: Rubber
	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
	Spring rate [N/mm (lb./in.)]	14.9 (85)
	Rate at wheel [N/mm (lb./in.)]	18.4 (105)
Stabilizer	Type (link, linkless, frameless)	Linkless
	Material & bar diameter	AISI 1090 Spring steel 25.4 (1.00)

Suspension - Rear

Type & description			Semi-independent trailing arm
Travel*	Full jounce		62 (2.44)
	Full rebound		135 (5.31)
Spring	Type (coil, leaf, other) & material		Coil: AISI 5160 H Chromium steel
	Size (length x width, coil design height & i.d., bar length & dia.)		240 (9.45) x 85 (3.35) x 10.4 (0.409)
	Spring rate [N/mm (lb./in.)]		15.8 (90)
	Rate at wheel [N/mm (lb./in.)]		16.2 (93)
	Insulators (type & material)		Compression: Rubber
	If leaf	No. of leaves	--
		Shackle (comp. or tens.)	--
Stabilizer	Type (link, linkless, frameless)		None
	Material & bar diameter		--
Track bar (type)			None

* Define load condition: Passenger Seating - 2 Front - 3 Rear - Full tank of gas

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METRIC (U.S. Customary)

Body Type And / Or Engine Displacement	All

Brakes - Service

Description			Four-wheel hydraulic-actuated system
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		Disc
	Rear (disc or drum)		Drum
Valving type (proportion, delay, metering, other)			Dual proportioning valve
Power brake (std., opt., n.a.)			Standard
Booster type (remote, integral, vac., hyd., etc.)			Vacuum, single
Vacuum	Source (inline, pump, etc.)		Throttle body
	Reservoir (volume in.^{3}) and source		--
	Pump-type (elec., gear driven, belt driven)		--
Traction control	Operational speed range		
	Type engine intervention (electronic, mech.)		
Anti-lock device	Front/rear (std., opt., n.a.)		
	Manufacturer		
	Type (electronic, mech.)		
	Number sensors or circuits		
	Number anti-lock hydraulic circuits		
	Integral or add-on system		
	Yaw control (yes, no)		
	Hydraulic power source (elec., vac. mtr., pwr. strg.)		
Effective area [cm^2(in.^{2})]* (F/R)			391 (60.6)
Gross lining area [cm^2(in.^{2})]**(F/R)			417.58 (64.73)
Swept area [cm^2(in.^{2})]***(F/R)			1302.97 (201.96)
Rotor	Outer working diameter	F/R	F: 228 (8.98)
	Inner working diameter	F/R	F: 153 (6.02)
	Thickness	F/R	F: 12.64 (0.498)
	Material Type (vented/solid)	F/R	F: damped cast iron, solid / R: N.A.
Drum	Diameter & Width	F/R	F: N.A. / R: 200 (7.87) x 37.62 (1.48)
	Type & Material	F/R	F: N.A. / R: Cast composite
Wheel cylinder bore			F: 54 (2.13) / R: 15.87 (0.625)
Master cylinder	Bore/stroke	F/R	21.0 (0.827) / 32.79 (1.291)
Pedal arc ratio			3.79 : 1 Power
Line pressure at 445 N(100lb.) pedal load [kPa (psi)]			Power: 9308 (1350)
Lining clearance		F/R	No major adjustment
Brake lining — Front Wheel	Bonded or riveted (rivets/seg.)		Riveted, 5 / shoe
	Rivet size		3.57 (0.14) dia. x 7.57 (0.3)
	Manufacturer		Bendix
	Lining code *****		BX-JD-EE
	Material		Molded metallic
	**** Primary or outboard		3987 mm^2 x 12.34 (6.18 in^2 x 0.486)
	Size Secondary or inboard		3987 mm^2 x 12.34 (6.18 in^2 x 0.486)
	Shoe thickness (no lining)		Outer: 4.83 (0.190); Inner: 5.18 (0.204)
Brake lining — Rear Wheel	Bonded or riveted (rivets/seg.)		Riveted, 10 / shoe
	Manufacturer		Bendix
	Lining code *****		BX-MO-FF
	Material		Rolled asbestos
	**** Primary or outboard		198.56 x 32.5 x 6.65 (7.82 x 1.28 x 0.262)
	Size Secondary or inboard		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 width x thickness.
***** Manufacturer I.D., catalog or formulation designation & coefficient of friction classification.

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised (•) _____

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	All

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P165/80 R 13, SL
	Type (bias, radial, steel, nylon, etc.)		Steel radial
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	240 (35)
		Rear [kPa (psi)]	240 (35)
	Rev./mile - at 70 km/h (45 mph)		894
Wheels	Type & material		Steel disc
	Rim (size & flange type)		13 x 5.0 JB
	Wheel offset		40 (1.6)
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	100 (3.94)
		Number & size	4 - M12 x 1.5
Spare	Tire and wheel		P165/75 D 13 Low mileage spare (a)
	Storage position & location (describe)		Horizontal - Rear floor pan under cargo floor

Tires And Wheels (Optional)

Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange, type and offset)	
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Spare tire and wheel (size) (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 operated lever with push button release
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) With air conditioning- Same as road tire and wheel.

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised(•)

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	All

Steering

Manual (std., opt., n.a.)				Std.
Power Steering (std., opt., n.a.)				Opt.
Adjustable steering wheel column (tilt, telescope, other)		Type		N.A.
		Manufacturer		--
		(Std., opt., n.a.)		--
Wheel diameter** (W9) SAE J1100		Manual		381 (15)
		Power		381 (15)
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		--
		Curb to curb (l. & r.)		10.8 (35.5) L; 11.4 (37.5)R
	Inside rear	Wall to wall (l. & r.)		--
		Curb to curb (l. & r.)		--
Scrub Radius*				-8 (-0.3)
Manual	Gear	Type		Rack & pinion
		Manufacturer		Cam gears
		Ratios	Gear	32.3 mm / Rev.
			Overall	22:1
	No. wheel turns (stop to stop)			3.6
Power	Type (coaxial, elec., hyd., etc.)			Integral power unit
	Manufacturer			T.R.W.
	Gear	Type		Rack & pinion with integral power unit
		Ratios	Gear	40.7 mm / Rev.
			Overall	18.0:1
	Pump (drive)			Pulley and belt, off crankshaft
	no. wheel turns (stop to stop)			2.88
Linkage	Type			Rack & Pinion (Rod & ball directly attached to gear)
	Location (front or rear of wheels, other)			Rear of wheels
	Tie rods (one or two)			Two (tie rod inners integral with rack & pinion gear)
Steering axis	Inclination at camber (deg.)			13.36°
	Bearings (type)	Upper		Acetal thermoplastic bearing
		Lower		Ball joint
		Thrust		Acetal thermoplastic bearing
Steering spindle & joint type				ISO strut with lower ball joint
Wheel spindle/hub	Diameter	Inner bearing		76/40 (3.0/1.57) dia.:28/33 (1.1/1.3) wide
		Outer bearing		--
	Thread (size)			M22 x 1.5
	Bearing (type)			Double-row angular-contact ball

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

**See page 21

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised (•) _____

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	All

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	--
		Camber (deg.)	-0.2° - + 0.8°
		Toe-in [outside track - mm(in)]	0.4° Toe-in to 0.2° Toe-out (a)
	Service reset*	Caster	Not adjustable; Ref. 1.4°; Max. side to side Differential 1.5°
		Camber	+ 0.3° ± 0.3°
		Toe-in	+ 0.1° toe-in ± 0.1° (a)
	Periodic M.V. inspection	Caster	Same as Service Checking
		Camber	--
		Toe-in	--
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-1.3° to -0.2°
		Toe-in [outside track - mm(in)]	0.4° Toe-out to 0.8° Toe-in (a)
	Service reset*	Camber	-0.75° ± 0.5° (shim)
		Toe-in	+ 0.2° toe-in ± 0.6° (shim) (a)
	Periodic M.V. inspection	Camber	Same as Service Checking
		Toe-in	--

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

Electrical - Instruments and Equipment

Speed-ometer	Type (Analog, digital, std., opt.)	Electric/Analog
	Trip odometer (std., opt., n.a.)	Std.
EGR maintenance indicator		--
Charge indicator	Type	Voltmeter
	Warning device (light, audible)	--
Temp. indicator	Type	Magnetic gage
	Warning device (light, audible)	--
Oil pressure indicator	Type	--
	Warning device (light, audible)	Light - Std.
Fuel indicator	Type	Magnetic gage
	Warning device (light, audible)	--
Wind-shield wiper	Type (standard)	Electric 2-speed, intermittent wipe
	Type (optional)	--
	Blade length	406.4 (16)
	Swept area [cm^2 (in^2)]	4755 (737)
Wind-shield washer	Type (standard)	Electric
	Type (optional)	--
	Fluid level indicator (light, audible)	--
Rear window wiper, wiper/washer (std., opt., n.a.)		Wiper/washer - Std.
Horn	Type	Seashell
	Number used	1
Other		

(a) Measurements in degrees, not inches

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised(•) _____

METRIC (U.S. Customary)

Engine Description	**2.2L (135.0 in³) TBI-EFI**
Engine Code	**EDF**

Electrical - Supply System

Battery	Manufacturer	Johnson Controls
	Model, std., (opt.)	GRP 25
	Voltage	12V
	Amps at 0°F cold crank	430
	Minutes-reserve capacity	100
	Amp/hrs. - 20 hr. rate	42
	Location	Left front fender side shield
Alternator	Manufacturer	Nippondenso
	Rating (idle/max. rpm)	90 HS
	Ratio (alt. crank/rev.)	2.60:1
	Output at idle (rpm, park)	40 A
	Optional (type & rating)	--
Regulator	Type	Engine control computer

Electrical - Starting System

Motor	Manufacturer	Bosch
	Current drain at 0 °F	125 - 175A
	Power rating [kW (hp)]	1.1 (1.475)
Motor drive	Engagement type	Solenoid shift
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)		N.A.		
	Other (specify)		Engine control computer w/ electronic spark advance & voltage regulator		
Coil	Manufacturer		UTC	Prestolite	Diamond
	Model		5226865	5227372	5227252
	Current	Engine stopped - A	0.0 A		
		Engine idling - A	1.9 A		
Spark plug	Manufacturer		Champion		
	Model		RN12YC		
	Thread (mm)		14 mm		
	Tightening torque [N•m (lb-ft)]		28 (20)		
	Gap		0.9 (0.035)		
	Number per cylinder		One		
Distributor	Manufacturer		Chrysler		
	Model		5226575		

Electrical Suppression

Locations & type	Resistor spark plugs; Resistance ignition wire; Capacitor - Alternator, Blower motor ; Diode - A/C clutch, Horn relay, Internal fuel pump filter, Starter relay; Ground cable - Engine to dash, Engine mount, Blocking Diode-Clutch relay

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised(•)

Body Type	All

Body

Structure	Unibody unitized construction with bolt on front suspension crossmember
Bumper system front - rear	Front: Aluminum extrusion, EPDM rubber end caps Rear: Aluminum extrusion, EPDM rubber end caps
Anti-corrosion treatment	Extensive use of galvanized steel

Body - Miscellaneous Information		
Type of finish (lacquer, enamel, other)		Enamel - Universal base coat / Clear coat
Hood	Material & mass	14.74 (32.5)
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Material & mass	--
	Type (counterbalance, other)	--
	Internal release control (elec., mech., n.a.)	--
Hatch-back lid	Material & mass	9.44 (20.8)
	Type (counterbalance, other)	Gas pressurized struts
	Internal release control (elec., mech., n.a.)	--
Tailgate	Material & mass	--
	Type (drop, lift, door)	--
	Internal release control (elec., mech., n.a.)	--
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	None
Window Regulator type (cable, tape, flex, drive, etc.)	Front	Single arm - manual
	Rear	Single arm - manual
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket - zig-zag element platform with full volume foam
	Rear	Bench - Full volume foam
	3rd seat	--
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket - Full foam
	Rear	Bench - Full Foam
	3rd seat	--

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised (•)

METRIC (U.S. Customary)

Body Type	All

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, Standard/Optional	First seat	Lap & Shoulder belt Std.	N.A.	Lap & Shoulder belt Std.
		Second seat	Lap & shoulder belt Std.	Lap belt Std.	Lap & shoulder belt Std.
		Third seat	N.A.	N.A.	N.A.
Passive	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual - lap belt) Standard/Optional	First seat	Air bag & Knee bolster Std.	N.A.	N.A.
		Second seat	N.A.	N.A.	N.A.
		Third seat	N.A.	N.A.	N.A.

Glass	SAE Ref. No.	
Windshield glass exposed surface area [$cm^2(in^2)$]	S1	7746 (1203)
Side glass exposed surface area [$cm^2(in^2)$] - total 2 sides	S2	10488 (1626)
Backlight glass exposed surface area [$cm^2(in^2)$]	S3	6803 (1054)
Total glass exposed surface area [$cm^2(in^2)$]	S4	25055 (3883)
Windshield glass (type)		Laminated safety glass
Side glass (type)		Heat treated safety glass
Backlight glass (type)		Heat treated safety glass

Lamps and Headlamps Locations

Headlamps	Description - sealed beam, halogen, replaceable bulb, etc	Sealed beam
	Shape	Rectangular
	Lo-beam type (2A1, 2B1, 2C1, etc.)	2B
	Quantity	2
	Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	2B
	Quantity	2

Frame

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

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised (•)

METRIC (U.S. Customary)

Body Type	All

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

Air conditioning (manual, auto. temp control)		Manual - Opt.
Clock (digital, analog)		Digital (in radio) - Opt.
Compass/thermometer		N.A.
Console (floor, overhead)		Forward floor - Std.
Defroster, elec. backlight		Opt.
Electronic	Diagnostic monitor (integrated, individual)	Integrated - Std.
	Instrument cluster (list instruments)	N.A.
	Keyless entry	N.A.
	Tripminder (avg. spd., fuel)	N.A.
	Voice alert (list items)	N.A.
	Other	
Fuel door lock (remote, key, electric)		N.A.
Lamps	Auto head on / off delay, dimming	N.A.
	Cornering	N.A.
	Courtesy (map, reading)	Opt.
	Door lock, ignition	N.A.
	Engine compartment	N.A.
	Fog	N.A.
	Glove compartment	Std.
	Trunk	Std.
	Illuminated entry system (list lamps, activation)	N.A.
	Other	Dome - Std.
Mirrors	Day / night (auto. man.)	Manual - Std.
	L.H. (remote, power, heated)	Remote - Std.
	R.H. (convex, remote, power, heated)	Remote - Opt.
	Visor vanity (RH/LH, illuminated)	RH - Std.
Navigation system (describe)		N.A.
Parking brake-auto release (warning light)		Warning light - Std. / Auto release - N.A.

MVMA Specifications

Vehicle Line **DODGE OMNI**

Model Year **1990** Issued **9-15-89** Revised (•)

METRIC (U.S. Customary)

Model Code	**All**

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

Power Equipment	Deck lid (release, pull down)		N.A.
	Door locks (manual, automatic, describe system)		N.A.
	Seats	2 - 4 - 6 way, etc.	N.A.
		Reclining (R.H., L.H.)	N.A.
		Memory (R.H., L.H., preset, recline)	N.A.
		Lumbar, hip, thigh, support	N.A.
		Heated (R.H., L.H., other)	N.A.
	Side windows		N.A.
	Vent windows		N.A.
	Rear windows		N.A.
Radio systems	Antenna (location, whip, w/shield, power)		Whip - Right front fender - included with radio
	Std.		N. A.
	Opt.	AM, FM, stereo, tape, theft deterrent, radio prep pkg., headphone jacks, etc.	AM/FM/MX/ETR AM/FM/MX/ETR w/Cassette
	Speaker (number, location)		2, In front doors
Roof open air fixed (flip-up, sliding, "T")			N.A.
Speed control device			N.A.
Speed warning device (light buzzer, etc.)			N.A.
Tachometer (rpm)			Std.
Telephone system (describe)			N.A.
Theft deterrent system			Inside hood release - Std.

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised(•)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for Definitions

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

Body Type	SAE Ref. No.	44
ØWidth		
Tread (front)	W101	1425 (56.1)
Tread (rear)	W102	1415 (55.7)
Vehicle width	W103	1682 (66.8)
Body width at SgRP (front)	W117	1620 (63.8)
Vehicle width (front doors open)	W120	3319 (130.7)
Vehicle width (rear doors open)	W121	3319 (130.7)
Tumble-home (deg.)	W122	21°
Outside mirror width	W410	
ØLength		
Wheelbase	L101	2517 (99.1)
Vehicle length	L103	4146 (163.2)
Overhang (front)	L104	800 (31.5)
Overhang (rear)	L105	829 (32.6)
Upper structure length	L123	2578 (101.5)
Rear wheel C/L "X" coordinate	L127	2609 (102.7)
ØHeight*		
Passenger distribution (front/rear)	PD 1,2,3	2 - Front 3 - Rear
Trunk/cargo load		--
Vehicle height	H101	1346 (53.0)
Cowl point to ground	H114	891 (35.1)
Deck point to ground	H138	841 (33.1)
Rocker panel front to ground	H112	213 (8.4)
Rocker panel rear to ground	H111	226 (8.9)
Windshield slope angle	H122	52.9°
Backlight slope angle	H121	53°
Ground Clearance		
Front bumper to ground	H102	366 (14.4)
Rear bumper to ground	H104	302 (11.9)
Bumper to ground [front at curb mass (wt.)]	H103	385 (15.2)
Bumper to ground [rear at curb mass (wt.)]	H105	388 (14.3)
Angle of approach (degrees)	H106	20°
Angle of departure (degrees)	H107	21°
Ramp breakover angle (degrees)	H147	15°
Axle differential to ground (front/rear)	H153	N.A.
Min. running ground clearance	H156	118 (4.6)
Location of min. run. ground clearance		Frt. Susp. C'mbr. Brkt. (L.H.)

* All vehicle **height** and **ground** clearance are made at the Manufacturer's Design Load Weight.
Manufacturer's Design Load Weight is defined with indicated passenger distribution and trunk/cargo load, unless otherwise specified.
All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised(•)

METRIC (U.S. Customary)
Vehicle Dimensions See Key Sheets for definitions

Body Type		ALL
Ø Front Compartment	**SAE Ref. No.**	
SgRP front, "X" coordinate	L31	1409 (55.5)
Effective head room	H61	967 (38.1)
Max. eff. leg room (accelerator)	L34	1069 (42.1)
SgRP to heel point	H30	240 (9.4)
SgRP to heel point	L53	868 (34.1)
Back angle	L40	26°
Hip angle	L42	97°
Knee angle	L44	126.5°
Foot angle	L46	87°
Design H-point front travel	L17	185 (7.3)
Normal driving & riding seat track trvl.	L23	185 (7.3)
Shoulder room	W3	1314 (51.7)
Hip room	W5	1336 (52.6)
Upper body opening to ground	H50	1239 (48.7)
Steering wheel maximum diameter*	W9	381 (15.0)
Steering wheel angle	H18	25.3°
Accelerator heel pt. to steer. whl. cntr.	L11	514 (20.2)
Accelerator heel pt. to steer. whl. cntr.	H17	620 (24.4)
Undepressed floor covering thickness	H67	25 (1.0)
Ø Rear Compartment		
SgRP couple distance	L50	749 (29.5)
Effective head room	H63	937 (36.9)
Min. effective leg room	L51	846 (33.3)
SgRP (second to heel)	H31	307 (12.1)
Knee clearance	L48	-30 (-1.2)
Shoulder room	W4	1309 (51.5)
Hip room	W6	1178 (46.4)
Upper body opening to ground	H51	1239 (48.7)
Back angle	L41	26°
Hip angle	L43	83.5°
Knee angle	L45	80°
Foot angle	L47	106°
Depressed floor covering thickness	H73	18 (0.7)
Luggage Compartment		
Usable luggage capacity [L (cu. ft.)]	V1	NA
Liftover height	H195	739 (29.1)
Interior Volumes (EPA Classification)		
Vehicle Class		Compact
Interior volume index (cu. ft.)**		100.2
Trunk / cargo index (cu. ft.)		15.6

* See p. 14
** Includes passenger and trunk / cargo index - see definition page 32.

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised(•)

METRIC (U.S. Customary)
Vehicle Dimensions See Key Sheets for Definitions

Body Type	SAE Ref. No.	Low-Back Bucket	High-Back Bucket
Station Wagon - Third Seat			
SgRP couple distance	L85		
Shoulder room	W85		
Hip room	W86		
Effective leg room	L86		
Effective head room	H86		
SgRP to heel point	H87		
Knee clearance	L87		
Seat facing direction	SD1		
Back angle	L88		
Hip angle	L89		
Knee angle	L90		
Foot angle	L91		
Station Wagon - Cargo Space			
Cargo length (open front)	L200		
Cargo length (open second)	L201		
Cargo length (closed front)	L202		
Cargo length (closed second)	L203		
Cargo length at belt (front)	L204		
Cargo length at belt (second)	L205		
Cargo width (wheelhouse)	W201		
Rear opening width at floor	W203		
Opening width at belt	W204		
Min. rear opening width above belt	W205		
Cargo height	H201		
Rear opening height	H202		
Tailgate to ground height	H250		
Front seat back to load floor height	H197		
Cargo volume index [$m^3(ft.^3)$]	V2		
Hidden cargo volume [$m^3(ft.^3)$]	V4		
Cargo volume index-rear of 2nd-seat	V10		
Hatchback - Cargo Space			
Cargo length at front seatback height	L208	1044 (41.1)	926 (36.5)
Cargo length at floor (front)	L209	1576 (62.0)	1569 (61.8)
Cargo length at second seatback height	L210	419 (16.5)	419 (16.5)
Cargo length at floor (second)	L211	902 (35.5)	902 (35.5)
Front seatback to load floor height	H197	554 (21.8)	636 (25.0)
Second seatback to load floor height	H198	511 (20.1)	511 (20.1)
Cargo volume index[$m^3(ft.^3)$]	V3	0.936 (33.0)	1.03 (36.6)
Hidden cargo volume [$m^3(ft.^3)$]	V4	–	
Cargo volume index-rear of 2nd-seat	V11	15.6	

MVMA Specifications

Vehicle Line DODGE OMNI
Model Year 1990 Issued 9-15-89 Revised(*)

METRIC (U.S. Customary)

Body Type	All

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front		The center of gauge holes located in front longitudinal approximately 658 mm (25.9 in.) from centerline of front wheels.
Rear		The center of gauge holes located in rear longitudinal approximately 3023 mm (119.0 in) from the 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 (122.6)
	H82	145 (5.7) Bottom Surface of Longitudinal
	H162	
	H164	

*Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

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METRIC (U.S. Customary)

Estimated

Vehicle Mass (Weight)

Code	Model	CURB MASS, kg (weight, lb.)*			% PASS. MASS DISTRIBUTION				ETWC** Code
		Front	Rear	Total	Pass. in Front		Pass. in Rear		
					Front	Rear	Front	Rear	
ALZE44	Omni	651	392	1043					2625 - w/o A/C
2.2L (135.0 in^3)	EDF Engine	(1435)	(864)	(2299)	49.6	50.4	20.0	80.0	2750 - w A/C

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

**ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certification. Refer to ETWC code legeng below for test weight class.

ETWC LEGEND

A	= 1000	I	= 2000	Q	= 3000	Y	= 4000
B	= 1125	J	= 2125	R	= 3125	Z	= 4250
C	= 1250	K	= 2250	S	= 3250	AA	= 4500
D	= 1375	L	= 2375	T	= 3375	BB	= 4750
E	= 1500	M	= 2500	U	= 3500	CC	= 5000
F	= 1625	N	= 2625	V	= 3625	DD	= 5250
G	= 1750	O	= 2750	W	= 3750	EE	= 5500
H	= 1875	P	= 2875	X	= 3875	FF	= 5750

SHIPPING MASS (weight) Calculation Kg: (lbs.)

Shipping Mass (weight) = Curb Weight less:

27 kg. (60 lbs.)

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METRIC (U.S. Customary)

Estimated

Optional Equipment Differential Mass (weight)*

Equipment	MASS, kg (weight, lb.)			Remarks
	Front	Rear	Total	
Automatic Transmission	20.4	-4.1	16.3	
	(45)	(-9)	(36)	
Power Steering	9.1	0.4	9.5	
	(20)	(1)	(21)	
Cargo Compartment Dress-up	-0.4	5.4	5.0	
	(-1)	(12)	(11)	
Air Conditioning	29.0	-2.3	26.7	
	(64)	(-5)	(59)	

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