

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

Passenger Car

1987

Manufacturer  <b>CHRYSLER MOTORS</b>	Car Line  <b>PLYMOUTH CARAVELLE</b>	
Mailing Address  <b>DETROIT, MICHIGAN 48288</b>	Issued <b>JUNE 20, 1986</b>	Revised

Questions concerning these specifications should be directed to the manufacturer whose address is shown above. The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. This specification form was developed by the automobile manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

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

# **MVMA Specifications Form**

## **Passenger Car**

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

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#### **NOTE:**

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. **UNLESS OTHERWISE INDICATED:**
  - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
  - b. Nominal design dimensions are used throughout these specifications.
  - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

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

Car Line PLYMOUTH CARAVELLE  
 Model Year 1987 Issued 6-20-86 Revised (a) \_\_\_\_\_

**Car Models**

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
<b>CARAVELLE-FWD</b> 4-Door Sedan	SEPT. 1986	JM41	6(3/3)	52(115)
<b>CARAVELLE SE-FWD</b> 4-Door Sedan	SEPT. 1986	JH41	6(3/3)	52(115)

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**Power Teams** (Indicate whether standard or optional)

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

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in. <sup>3</sup> )	Carb. (Barrel, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N-m (lb. ft.)			
STD.	2.2L (135) EDF	EFI	9.5	72 (97) @ 5200	165 (122) @ 3200	S	AUTOMATIC	3.02
OPT.	2.2L (135) EDG	EFI Turbo	8.1	109 (146) @ 5200	230 (170) @ 3600	S	AUTOMATIC	3.02
OPT.	2.5L (153) EDM	EFI	9.0	75 (100) @ 4800	180 (133) @ 2800	S	AUTOMATIC	3.02

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Engine description/Carb.  
 Engine Code

**2.2L (135.0 in<sup>3</sup>)  
 EFI, EDF**

**2.2L (135.0 in<sup>3</sup>)  
 EFI Turbo, EDG**

**ENGINE - GENERAL**

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	Four-cylinder, in-line, SOHC, canted, front, transverse	
Manufacturer	Chrysler	
No. of Cylinders	Four	
Bore	87.5 (3.44)	
Bore stroke (C/L to C/L)	92.0 (3.62)	
Bore spacing (C/L to C/L)	96.0 (3.78)	
Cylinder block mat'l. & mass kg (lbs.) (machined)	Cast Iron 35.79 (78.9)	Cast Iron 35.46 (78.2)
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 (cm <sup>3</sup> )	48.5 -51.5	
Cylinder liner material	n.a.	
Head gasket thickness (compressed)	1.78 (.070)	
Minimum combustion chamber total volume (cm <sup>3</sup> )	Clearance volume: 65.31	Clearance Volume: 73.815
Cyl. no. system	Right to left as installed in car 1, 2, 3, 4	
(front to rear)*		
L. Bank	--	
R. Bank		
Firing order	1, 3, 4, 2	
Intake manifold mat'l. & mass [kg(lbs.)]**	Aluminum 2.62 (5.8)	Aluminum 2.13 (4.7)
Exhaust manifold mat'l. & mass [kg (lbs.)]**	Cast iron 6.23 (13.7)	Cast iron 4.26 (9.4)
Recommended fuel (leaded, unleaded, diesel)	Regular unleaded	Super or premium unleaded
Fuel antiknock index R + M	87 octane or higher	91 octane or higher (recommended)
2		87 octane or higher (acceptable)
Total dressed engine mass (wt) dry***	128.64 (283.6)	135.44 (298.6)

**Engine - Pistons**

Material & mass, g (weight, oz.) piston only	Aluminum	
	440 (15.7)	443 (15.2)

**Engine - Camshaft**

Location	Overhead	
Material & mass kg (weight, lbs.)	Hardenable cast iron	
	2.92 (6.4)	2.95 (6.5)
Drive type	Chain/belt	Belt
	Width/pitch	Width: 24.7 (0.972); Pitch: 9.52 (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 emission controls, drive belts, oil filter, right engine mount, and throttle controls as required

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Car Line **PLYMOUTH CARAVELLE**

Model Year **1987** Issued **6-20-86** Revised (•) \_\_\_\_\_

Engine description/Carb.  
 Engine Code

**2.5L (153.0 in<sup>3</sup>)**  
**EFI, EDM**

**ENGINE - GENERAL**

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc,dohc, ohv, hemi, wedge, pre-chamber, etc.	Four-cylinder, in-line, SOHC, canted, front, transverse	
Manufacturer	Chrysler	
No. of Cylinders	Four	
Bore	87.5 (3.44)	
Stroke (C/L to C/L)	92.0 (3.62)	
Bore spacing (C/L to C/L)	96.0 (3.78)	
Cylinder block mat'l. & mass kg (lbs.) (machined)	Cast Iron 39.42 (86.9)	
Cylinder block deck height	249.8 (9.83)	
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 (cm <sup>3</sup> )	48.5-51.5	
Cylinder liner material	n.a.	
Head gasket thickness (compressed)	1.78 (.070)	
Minimum combustion chamber total volume (cm <sup>3</sup> )	Clearance Volume: 73.815	
Cyl. no. system (front to rear)*	L. Bank R. Bank	Right to left as installed in car 1, 2, 3, 4 --
Firing order	1, 3, 4, 2	
Intake manifold matl. & mass [kg(lbs.)]**	Aluminum 2.61 (5.8)	
Exhaust manifold matl. & mass [kg(lbs.)]**	Cast iron 6.23 (13.7)	
Recommended fuel (leaded, unleaded, diesel)	Regular unleaded	
Fuel antiknock index $\frac{R + M}{2}$	87 octane or higher	
Total dressed engine mass (wt) dry***	140.57 (309.9)	

**Engine - Pistons**

Material & mass, g (weight, oz.) piston only	Aluminum 430 (15.1)
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**Engine - Camshaft**

Location	Overhead
Material & mass kg (weight, lbs.)	Hardenable cast iron 2.92 (6.4)
Drive type	Belt
Chain/belt	Width: 23.8 (0.937); Pitch: 9.52 (0.375)
Width/pitch	

\*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 emission controls, drive belts, oil filter, right engine mount, and throttle controls as required

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**Chassis and Body Dimensions**

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Engine description/Carb.  
 Engine Code

**2.2L (135.0 in.3)**  
**EFI, EDF, EFI Turbo, EDG**

**2.5L (153.0 in.3)**  
**EFI, EDM**

**Engine - Valve System**

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

**Engine - Connecting Rods**

Material & Mass [kg., (weight lbs.)]	Forged steel 0.63 (1.4)	Forged steel 0.67 (1.5)
--------------------------------------	-------------------------	-------------------------

**Engine - Crankshaft**

Material & Mass [kg., (weight lbs.)]	Nodular iron 15.19 (33.5)	Forged steel 16.52 (36.4)
End thrust taken by bearing (no.)	Three	
Number of main bearings	Five	
Seal (material, one, two piece design, etc.)	Front	One piece
	Rear	One piece

**Engine - Lubrication System**

Normal oil pressure [kPa (psi) at eng. rpm]	25 - 80 psi @ 3000
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	Type	
nozzle	Opening pres.(kPa (psi))	
Pre-chamber design		
Fuel inj.	Manufacturer	
pump	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	Garrett	N.A.
Super - charger - manufacturer	N.A.	
Charge cooler	N.A.	

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Engine Description/Carb.  
 Engine Code

2.2L (135.0 in <sup>3</sup> ) EFI, EDF		2.2 L (135.0 in. <sup>3</sup> ), EDG	
2.5 L (153.0 in. <sup>3</sup> ) EFI, EDM			
W/O AC	W/AC	W/O AC	W/AC

**Engine - Cooling System**

Coolant recovery system (std., opt., n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle	
Radiator cap relief valve pressure (kPa (psi))		96-124 (14-18)	
Circulation thermostat	Type (choke, bypass)	Choke, Pellet Operated	
	Starts to open at °C(°F)	90.6 (195)	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump RPM	-	
	Number of pumps	One	
	Drive (V-belt, other)	Multi-Groove Belt	
	Bearing type	Integral Ball Bearing	
	Impeller material	Steel	
Housing material		Cast Aluminum	
By-pass recirculation (type (inter., ext.))		External	
Cooling System Capacity	With heater - L(qt.)	8.5 (9.0)	
	With air cond. - L(qt.)	8.5 (9.0)	
Opt. equip. (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)			
Radiator Core	Std., A/C, HD		
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin&tube, mechanical, braze, etc.)	Tube & Fin Spacer, Soldered, 1 Row	
	Material, mass[kg(wt., lbs.)] (a)	(b) 4.63 (10.2)	Copper-brass, 5.03 (11.1)
	Width	533.4 (21.0)	
	Height	387.6 (15.26)	
	Thickness	17.8 (0.7)	
	Fins per inch	13	20
Radiator end tank material		Nylon 66	
Fan	Std., elec., opt.	Electric	
	Number of blades & type (flex, solid, material)	2-Blade Metal	5-Blade Metal
	Diameter & projected width	315(12.4)/33(1.3)	360 (14.2) / 46 (1.8)
	Ratio (fan to crankshaft rev.)	-	
	Fan cutout type	Electric Motor	
	Drive type (direct, remote)	-	
	RPM at idle (elec.)	1815	1790
	Motor rating (wattage) (elec.)	65	130
	Motor switch (type & loc.) (elec.)	Thermistor, Water Box & A/C	
	Switch point (temp., press.) (elec.)	99 °C (210° F) (Low Speed ); 110 °C ( 230° F) ( High Speed )	
	Fan shroud (material)	Metal	

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

(b) Copper-brass



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Engine Description/Carb.

Engine Code

<b>2.2L (135.0 in<sup>3</sup>)</b> <b>EFI</b> <b>EDF</b>	<b>2.5L (153.0 in<sup>3</sup>)</b> <b>EFI</b> <b>EDM</b>	<b>2.2L (135.0 in<sup>3</sup>)</b> <b>Turbocharged, EFI</b> <b>EDG</b>
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**Engine - Fuel System** (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carb., fuel inj. sys., etc.			electronic fuel injection	
Carburetor	Mfr.		Bosch or Holly	Bosch
	Choke (type)		none	none
	Idle spd. rpm (spec. neutral or drive and propane if used)	Manual		
		Automatic	700	800
Idle A/F mix				
Fuel Injection	Point of injection (no.)	throttle body (1)	port injection (4)	
	Constant, pulse, flow	pulse		
	Control (electronic, mech.)	electronic		
	System pressure [kPa (psi)]	100 (14.5)	379.6 (55.1) ± manifold vacuum	
Intake manifold heat control (exhaust or water thermostatic or fixed)		water	none	
Air cleaner type	Standard	oil-wetted paper element		
	optional	--		
Fuel pump	Type (elec. or mech.)	electric		
	Location (eng., tank)	in fuel tank	in fuel tank	
	Pressure range [kPa (psi)]	116-262 @ 12V & 15 PSI (a)	184-352 @ 12v & 55 PSI (a)	

**Fuel Tank**

Capacity [refill L (gallons)]		53 (14.0)
Location (describe)		forward of axle
Attachment		Galv. or terne plated strap to floor
Material & mass [kg (weight lbs.)]		terne plated steel 9.34 (20.6)    terne plated steel 10.16 (22.4)
Filler pipe	Location & material	external, right rear quarter panel; lead dipped steel
	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 (material)		terne plated steel
Extended range tank	Opt., n. a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n. a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
	Selector switch or valve	
Separate fill		

(a) Flow range (lbs./hr.) @ nominal regulated pressure

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 Engine Code

<b>2.5L (153.0 in.<sup>3</sup>)</b> <b>EFI</b> <b>EDM</b>	<b>2.2L (135.0 in.<sup>3</sup>)</b> <b>EFI</b> <b>EDF</b>	<b>2.2L (135.0 in.<sup>3</sup>)</b> <b>Turbo, EFI</b> <b>EDG</b>
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**Vehicle Emission Control**

	Type (air injection, eng. modifications)		(a)	(b)
			pulse	none
Exhaust Emission Control	Air injection	Pump or pulse	pulse	none
		Driven by	exhaust pressure	--
		Air distribution (head, manifold, etc.)	single point	--
		Point of entry	exhaust manifold collector	--
	Exhaust Gas Recirc- ulation	Type (controlled flow, open orifice, other)	controlled flow	
		Exhaust source	manifold collector	
		Point of exhaust inj. (spacer, carb., manif., etc.)	intake manifold	
	Catalytic Converter	Type	3 - Way + oxidation	3 - Way
		Number of	one	
		Location(s)	below exhaust manifold	under floor
		Volume [L9in. <sup>3</sup> ]	1.23(75) 3WC + 0.74(45)ox.	1.80 (110) 3WC
		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 manif., other)		intake manifold	
	Air inlet (breather cap, other)		air cleaner	
Evapora- tive emis- sion control	Vapor vented to (crank- case, canister, other)	Fuel tank	canister	
		Carburetor	--	
	Vapor storage position		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 w/120 in <sup>3</sup> conv. & air inj.	single w/110 in <sup>3</sup> converter
Muffler no. & type (reverse flow, straight through separate resonator) Material & mass [kg. (weight lbs.)]	one reverse flow	
	stainless steel 4.90(10.8)	stainless steel 6.21 (13.7)
Resonator no. & type	(c)	none
Exhaust pipe	Branch o. d., wall thickness	57/63.5 x 1.4(2.2/2.5x0.055)
	Main o. d., wall thickness	47.8 x 1.4(1.88 x 0.055)
	Material & mass [kg. (weight lbs.)]	(d)(e) (d)(f) stainless steel 1.23(2.7)
Intermed- iate pipe	o. d., & wall thickness	47.8 x 1.4(1.88 x 0.047)
	Material & mass [kg. (weight lbs.)]	57/50.8x1.4(2.2/2.0x0.055) stainless steel 4.64 (10.2) stainless steel 7.98 (17.6)(g)
Tail pipe	o. d., & wall thickness	47.8 x 1.2 (1.88 x 0.047)
	Material & mass [kg. (weight lbs.)]	50.8 x 1.1(2.00 x 0.043) stainless steel (see muffler assembly)

(a) aspirator, exhaust gas recirculation, engine modifications, catalytic converter

(b) exhaust gas recirculation, engine modifications, catalytic converter

(c) one straight through

(d) Stainless steel 5.30 (11.7)

(e) Includes 1.56 kg.(3.44 lbs.) - Federal, 1.69 kg.(3.72 lbs.) - California, substrate and stainless steel mesh

(f) Includes 1.69 kg.(3.72 lbs.) substrate and stainless steel mesh

(g) Includes 1.52 kg.(3.34 lbs.) substrate and stainless steel mesh

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Engine Description/Carb.  
 Engine Code

ALL

**Transmissions/Transaxle**

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

**Manual Transmissions/Transaxle**

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

**Clutch (Manual Transmission)**

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

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Engine Description/Carb.

Engine Code

<b>2.2L (135.0 in<sup>3</sup>) EFI, EDF</b>	<b>2.2L (135.0 in<sup>3</sup>), EFI Turbo, EDG</b>	<b>2.5L (153.0 in<sup>3</sup>) EFI, EDM</b>
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**Automatic Transmission/Transaxle**

Trade Name		Torqueflite		
Type and special features (describe)		Torque Converter with Automatically Operated Planetary Transmission and Parallel Axis Final Drive		
Selector	Location	Floor Console Mounted		
	Ltr./No. designation	PRND21		
Gear ratios	R	2.10		
	D	2.69, 1.55, 1.00		
	L <sub>1</sub>	-		
	L <sub>2</sub>	2.69, 1.55		
	L <sub>3</sub>	2.69		
Max. upshift speed - drive range (km/h (mph))		113 (70)	129 (80)	113 (70)
Max. kickdown speed - drive range (km/h (mph))		105 (65)	119 (74)	105 (65)
Min. overdrive speed (km/h (mph))		-		
Torque converter	Number of elements	Three		
	Max. ratio at stall	2.00:1		
	Type of cooling (air, liquid)	Liquid		
	Nominal diameter	241 (9.5)		
Lubricant	Capacity (refill L (pt.))	8.40 (17.75) (a)		
	Type recommended	Mopar ATF Plus (Auto. Trans. Fluid - Type 7176)(b)		
Oil cooler (std., opt., NA, internal, external, air, liquid)		Std., Internal liquid		

**Axle or Front Wheel Drive Unit**

Type (front, rear)		Front		
Description		Transaxle		
Limited slip differential (type)		N.A.		
Drive pinion offset		-		
Drive pinion (type)		Helical		
No. of differential pinions		Two		
Pinion/differential adjustment (shim, other)		Shim		
Pinion/differential bearing adjustment (shim, other)		Shim		
Driving wheel bearing (type)		Double Row Ball		
Lubricant	Capacity [L (pt.)]	see transaxle		
	Type recommended	see transaxle		
	SAE viscosity number	Summer	see transaxle	
		Winter	see transaxle	
		Extreme cold	see transaxle	

**Axle or Transaxle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage.)**

Axle ratio (or overall top gear ratio)		3.02
No. of teeth	Pinion	21
	Ring gear or gear	60
Ring gear o.d.		187.40 (7.38)
Transaxle	Transfer gear ratio	1.06
	Final drive ratio	2.86

(a) Torque Converter, Transmission, and Differential

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

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

Car Line **PLYMOUTH CARAVELLE**

Model Year **1987** Issued **6-20-86** Revised (•) \_\_\_\_\_

Engine Description/Carb.  
 Engine Code

**2.2L (135.0 in.<sup>3</sup>)**  
**EFI, EDF**

**2.2L (135.0 in.<sup>3</sup>)**  
**EFI Turbo, EDG**

**Axle Shafts - Front Wheel Drive**

Number used		Two	
Type (straight, solid bar, tubular, etc.)	Left	Solid bar	
	Right	Tube	Solid bar
Outer diam. x length* x wall thickness	Manual transmission	Left	n.a.
		Right	n.a.
	Automatic transmission	Left	(a)
		Right	(b)
	Optional transmission	Left	-
		Right	-
Slip Yoke	Type	-	
	Number of teeth	-	
	Spline o.d.	-	
Universal joints	Make and mfg. no	Inner	(d)
		Outer	(e)
	Number used		Two
	Type, size, plunge	Inner	Tripod plunge
		Outer	Rzeppa-fixed
	Attach (u-bolt, clamp, etc.)		-
	Bearing	Type (plain, anti-friction)	-
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

- (a) GKN-US: 24.2 x 333.2 (0.95 x 13.12) or Citroen: 22.9 x 333.3 (0.90 x 13.12) or SSG: 23.9 x 327.5 (0.94 x 12.89) or GKN-Eur 22.9 x 334.5 (0.90 x 13.17)
- (b) GKN-Eur: 40.5 x 600.8 x 2.7 (1.59 x 23.65 x 0.10) or GKN-US: 40.5 x 603.3 x 3.72 (1.59 x 23.75 x 0.146) or Citroen: 40 x 598.3 x 3.2 (1.57 x 23.56 x 0.126) or SSG: 38.0 x 591.1 x 5.0 (1.50 x 23.27 x 0.197)
- (c) GKN-Eur: 22.9 x 331.4 (0.90 x 13.05) or SSG: 23.8 x 327.5 (0.94 x 12.89) or Citroen: 22.9 x 333.2 (0.90 x 13.12)
- (d) GKN-Eur: GI69 or Citroen or GKN-US C-2000 or SSG #19
- (e) GKN-Eur: 92 AC or Citroen or GKN-US C-2000 or SSG #23
- (f) GKN-Eur: 95AC or Citroen or SSG #23

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Engine Description/Carb.  
 Engine Code

**2.5L (153.0 in.<sup>3</sup>)**  
**EFI, EDM**

**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 thickness	Manual transmission	Left	n.a	
		Right	n.a	
	Automatic transmission	Left	(a)	
		Right	(b)	
	Optional transmission	Left	-	
		Right	-	
Slip Yoke	Type		-	
	Number of teeth		-	
	Spline o.d.		-	
Universal joints	Make and mfg. no.		Inner	GKN-Eur: GI72 or Citroen or SSG #19
			Outer	GKN-Eur: 95 AC or Citroen or SSG #23
	Number used		Two	
	Type, size, plunge		Inner	Tripod plunge
			Outer	Rzeppa-fixed
	Attach (u-bolt, clamp, etc.)			-
	Bearing	Type (plain, anti-friction)		-
		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

- (a) Citroen: 22.9 x 333 (0.90 x 13.1) or GKN-Eur: 22.9 x 331.4 (0.90 x 13.05) or SSG: 23.9 x 327.5 (0.94 x 12.98)  
 (b) Citroen 40 x 598.3 x 3.2 (1.57 x 23.56 x 0.126) or GKN-Eur: 40.5 x 600.8 x 2.7 (1.59 x 23.65 x 0.106)  
 or SSG: 38.0 x 591.1 x 5.0 (1.50 x 23.27 x 0.197)

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Body Type And/Or  
 Engine Displacement

All		
Standard (SDA)	Heavy Duty (SDB)	Firm Feel (SDC)

**Suspension - General**

Car leveling	Std./opt./n.a.	N.A.	
	Type (air, hyd., etc.)	-	
	Manual/auto controlled	-	
Provision for brake dip control		Inclined Control Arm Strut	
Provision for accl. squat control		None	
Provisions for car jacking		Scissors Type Sill Jack Jack Supports Located at Each End of Body Sills	
Shock absorber (front & rear)	Type	Front: Direct-hydraulic Rear: gas-charged-hyd.	Gas-charged-Hydraulic
	Make	Front: , Delco or Monroe; Rear: Monroe , Maremont or Delco	
	Piston diameter	(a)	Front: 32 (1.26); Rear: 30.2 (1.19), 25.4 (1.00)
	Rod diameter	Front: 20 (0.79); Rear: 12.7 (0.50)	

**Suspension - Front**

Type and description		Iso-Strut		
Drive and torque taken through		Lower control arm		
Travel	Full jounce	68 (2.68)	75 (2.93)	68 (2.68)
	Full rebound	106 (4.12)	99 (3.87)	106 (4.12)
Spring	Type (coil, leaf, other) & mat'l.	Coil; AISI .5160H Chromium Alloy Steel		
	Insulators (type & material)	Compression: Rubber		
	Size (coil design height & i.d. bar length x dia.)	229 x 151 I.D. (9.0 x 6.0 I.D.)		
	Spring rate [N/mm (lb./in.)]	14.9 (85)	21.0 (120)	14.9 (85)
	Rate at wheel [N/mm (lb./in.)]	18.4 (105)	24.5 (140)	18.4 (105)
Stabilizer	Type (link, linkless, frameless)	Linkless		
	Material & bar diameter	AISI 1090 Spring Steel: 25.4 (1.00)		27.0 (1.06)

**Suspension - Rear**

Type and description		Trailing Flex-arm with track bar		
Drive and torque taken through		Arm		
Travel	Full jounce	127 (5.0)		
	Full rebound	73 (2.9)		
Spring	Type (coil, leaf, other) & mat'l.	Coil: AISI 5160H Chromium Alloy Steel		
	Size (length x width, coil design height & i.d., bar length x dia.)	229 x 102 I.D. (9.0 x 4.01 I.D.)		
	Spring rate [N/mm (lb./in.)]	28 (160)	35 (200)	28 (160)
	Rate at wheel [N/mm (lb./in.)]	17.8 (102)	22 (126)	17.8 (102)
	Insulators (type & material)	Compression: Rubber		
	If leaf	-		
	No. of leaves Shackle (comp. or tens.)	-		
Stabilizer	Type (link, linkless, frameless)	Frameless ERW Tube		
	Material & bar diameter	80KSI HSLA Steel: 25.4 (1.0) O.D.		(b)
Track bar (type)		Channel type		

(a) Front: 32 (1.26); Rear: 25.4 (1.0)

(b) 80 KSI HSLA Steel: 28.6 (1.13) O.D.

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Body Type And/Or  
 Engine Displacement

ALL

**Brakes - Service**

Description			four-wheel hydraulic actuated system	
Brake type (std., opt., n.a.)		Front (disc or drum)	disc	
		Rear (disc or drum)	drum	
Self-adjusting (std., opt., n.a.)			standard	
Special valving	Type (proportion, delay, metering, other)		N. A.	
Power brake (std., opt., n.a.)			standard	
Booster type (remote, integral, vac., hyd., etc.)			vacuum, tandem	
Vacuum source (inline, pump, etc.)			intake manifold	
Vacuum reservoir (volume in. <sup>3</sup> )			--	
Vacuum pump-type (elec, gear driven, belt driven, if other so state)			--	
Anti-skid device type (std., opt., n.a.) (F/R)			N. A.	
Effective area [cm <sup>2</sup> (in. <sup>2</sup> )]* (F/R)			526.88 (1.67)	
Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]** (F/R)			560.96 (86.95)	
Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]*** (F/R)			1825.30 (282.92)	
Rotor	Outer working diameter	F/R	front: 256.2 (10.09)	
	Inner working diameter	F/R	front: 158.2 (6.23)	
	Thickness	F/R	front: 24.0 (0.945)	
	Material & type (vented/solid)	F/R	front: damped cast iron, vented	
Drum	Diameter & width	F/R	rear: 220 (8.66) x 44.26 (1.74)	
	Type and material	F/R	rear: cast composite	
Wheel cylinder bore			front: 54 (2.13); rear: 14.27 (0.562)	
Master cylinder	Bore/stroke	F/R	21.0 (0.827)/32.79 (1.291)	
Pedal arc ratio			all: 3.28:1	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			power: 9854 (1390)	
Lining clearance		F/R	no major adjustments	
Brake Lining	Front wheel (a)	Bonded or riveted (rivets/seq.)		riveted, 6/shoe
		Rivet size		4.65 (0.18) dia. x 7.5 (0.3)
		Manufacturer		Bendix
		Lining code *****		BX-JD-EE
		Material		molded metallic
		****	Primary or out-board	4970 x 11.08 (7.70 x 0.436)
		Size	Secondary or in-board	4970 x 11.08 (7.70 x 0.436)
		Shoe thickness (no lining)		5.33 (0.210)
	Rear wheel	Bonded or riveted (rivets/seq.)		riveted, 10/shoe
		Manufacturer		Bendix
		Lining code *****		--
		Material		rolled asbestos
		****	Primary or out-board	226.35 x 40.0 x 6.65 (8.91 x 1.575 x 0.262)
		Size	Secondary or in-board	226.35 x 40.0 x 6.65 (8.91 x 1.575 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 brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by  $\pi/2$  for each brake.)  
 \*\*\*\* Size for drum brakes includes length x width x thickness.  
 \*\*\*\*\* Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

(a) area x thickness



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Body Type And/Or  
 Displacement

ALL

**Tires and Wheels (Standard)**

Tires	Size (load range)		P185/70 R 14, SL
	Type (bias, radial, etc.)		Steel Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	220 (32)
		Rear [kPa (psi)]	220 (32)
	Rev./mile - at 70 km/h (45 mph)		862
Wheels	Type & material		Disc Steel
	Rim (size & flange type)		14 x 5.5 JJ
	Wheel offset		40 (1.6)
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	100 (3.94)
Spare	Number & size		5-M 12 x 1.5mm
	Tire and wheel (same, if other describe)		T115/70 D14 Compact Spare on 14 x 4.0 T steel disc wheel
	Storage position & location (describe)		Vertical-Rear - Back of Rear Seat - Passenger Side

**Tires and Wheels (Optional)**

Size (load range)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
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)		

Same as road tire

Stored horizontally on rear floor pan, below cargo floor

**Brakes - Parking**

Type of control		Foot Operated Pedal, Hand Release Lever
Location of control		lower left End of Instrument Panel
Operates on		Rear Wheels
If separate from service brakes	Type (internal or external)	-
	Drum diameter	-
	Lining size (length x width x thickness)	-

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Body Type And/OR  
 Engine Displacement

Standard Suspension

European Handling Suspension

**Steering Manual (std., opt., n.a.)**

Manual (std., opt., n.a.)				not available	
Power (std., opt., n.a.)				standard	
Adjustable steering wheel (tilt, swing, other)		Type and description		tilt	
		(Std., opt., n.a.)		optional	
Wheel diameter (W9) SAE J1100		Manual		--	
		Power		381 (15)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		11.9 (39.1)	
		Curb to curb (l. & r.)		11.0 (36.2)	
	Inside rear	Wall to wall (l. & r.)		6.3 (20.7)	
		Curb to curb (l. & r.)		6.4 (20.9)	
Scrub Radius*				-9 (-0.35)	
Manual	Gear	Type			
		Make			
		Ratios	Gear		
			Overall		
	No. wheel turns (stop to stop)				
Power	Type (coaxial, linkage, etc.)		integral power unit		
	Make		TRW		
	Gear	Type	rack and pinion with integral power unit		
		Ratios	Gear	--	
			Overall	18.3:1	14.2:1
	Pump (drive)		pulley and belt, off crankshaft		
	No. wheel turns (stop to stop)		3.2	2.5	
Linkage	Type		rack and pinion (rod and ball directly attached to gear)		
	Location (front or rear of wheels, other)		rear of wheels		
	Tie rods (one or two)		2 (tie rod inners integral with rack and pinion gear)		
Steering Axis	Inclination at camber (deg.)		13.3		
	Bearings (type)	Upper	ball bearing		
		Lower	ball joint		
		Thrust	ball bearing		
Steering spindle & joint type				Iso-Strut with lower ball joint	
Wheel spindle	Diameter	Inner bearing		76/42 (3.0/1.65) dia.; 37/40 (1.46/1.57) wide	
		Outer bearing		--	
	Thread (size)		M22 x 1.5		
	Bearing (type)		double row Unipack ball or tapered roller bearing		

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

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Body Type And/Or  
 Engine Displacement

All

**Wheel Alignment**

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	-
		Camber (deg.)	-0.2° to +0.8°
		Toe-in (deg.)	0.4° Toe-in to 0.2° 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	-1.3° to +0.3°
		Toe-in [outside track-mm (in.)]	0.6° Toe-out to 0.6° Toe-in (a)
	Service reset*	Camber	Same as above (shim)
		Toe-in	Same as above (shim)
	Periodic M.V. inspection	Camber	-
		Toe-in	-

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

**Electrical - Instruments and Equipment**

**Mechanical Cluster**

Speedometer	Type	Magnetic torque drive
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		-
Charge indicator	Type	Voltmeter
	Warning device	-
Temp. Indicator	Type	Magnetic Gauge
	Warning device	-
Oil pressure indicator	Type	Light *
	Warning device	-
Fuel indicator	Type	Magnetic gage
	Warning device	Light in Light Bar Center Console - Opt.
Wind shield wiper	Type (standard)	Electric 2-speed, Non-depressed park
	Type (optional)	Electric 2-speed, Intermittent wipe
	Blade length	406.4 (16)
	Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]	5413 (839)
Windshield washer	Type (standard)	Electric (arm mounted)
	Type (optional)	-
	Fluid level indicator	Optional
Horn	Type mm (in.)	102 mm (4.0 in.) seashell)
	Number used	2
Other		

\*Indicates low oil pressure

(a) Measurements are measured in degrees, not in mm (in.)

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Engine Description/Carb.  
 Engine Code

2.2L (135.0 in. <sup>3</sup> )		2.5L (153.0 in. <sup>3</sup> )
EFI, EDF	EFI Turbo, EDG	EFI, EDM

**Electrical - Supply System**

Battery	Make	Mopar
	Model, std., (opt.)	Group 34
	Voltage	12V
	Amps at 0°F cold crank	400(500)
	Minutes-reserve capacity	100(110)
	Amp/hr. - 20 hr. rate	60 (66)
	Location	Left front fender side shield
Alternator	Manufacturer	Chrysler or Robert Bosch
	Rating	90 Amp
	Ratio (alt. crank/rev.)	2.4:1
	Optional (type & rating)	-
Regulator	Type	(a)

**Electrical - Starting System**

Start, motor	Current drain at 0°F	210-250A	230-280A
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)		(a)		
Coil	Make		UTC	Prestolite	Diamond
	Model		5226865	5227372	5227252
	Current	Engine stopped - A	3.0A		
		Engine idling - A	1.9A		
Spark plug	Make		Champion		
	Model		RN12YC		
	Thread (mm)		14 mm		
	Tightening torque [N-m (lb-ft)]		28 (20)		
	Gap		0.9 (0.035)		
	Number per cylinder		one		
Distributor	Make		Chrysler		
	Model		5226575	5226525	5226575

**Electrical - Suppression**

Locations & type	
------------------	--

(a) Engine control computer with electronic spark advance and voltage regulator

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Body Type

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**Body**

Structure	
Bumper system front - rear	Front - Urethane Fascia 3.3 kg. (7.2 lbs.) Steel 9.8 kg. (21.6 lbs.) Rear - Urethane Fascia 4.05 kg. (8.9 lbs.) Ultra high strength steel 7.39 kg. (16.25 lbs.)
Anti - corrosion treatment	Extensive use of galvanized steel

**Body - Miscellaneous Information**

Body - Miscellaneous information		
Type of finish (lacquer, enamel, other)		Buffable acrylic enamel
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Counterbalanced, clockspring
	Release control (internal, external)	Internal
Trunk-lid	Type (counterbalance, other)	Counterbalanced, Torsion bar
	Internal release control (elec., mech., n.a.)	Cable release, Opt.
Hatch-back lid	Type (counterbalance, other)	--
	Internal release control (elec., mech., n.a.)	--
Station Wagon		
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	None
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bench - C.A.R., Formed wire
	Rear	Full foam with zig-zag helper elements
	3rd seat	--
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bench - C.A.R., Formed wire
	Rear	Formed wire
	3rd seat	--

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Body Type

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**Restraint System**

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

**Frame**

Type and description (separate frame, unitized frame, partially unitized frame)		Unitized construction
<b>Glass</b>	<b>SAE Ref. No.</b>	
Windshield glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S1	8069 (1251)
Side glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S2	10395 (1612)
Backlight glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S3	5603 (869)
Total glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S4	24067 (3732)
Windshield glass (type)		Laminated safety glass
Side glass (type)		Heat treated safety glass
Backlight glass (type)		Heat treated safety glass

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Issued **6-20-86**

Revised(•)

Body Type

41

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

Air conditioning (manual, auto, temp. control)		Manual - Opt.
Clock (digital, analog)		Digital - Std. with radio
Compass/thermometer		N.A.
Console (floor, overhead)		N.A.
Defroster, elec. backlight		EBL - Opt.
Electronic	Diagnostic warning (integrated, individual)	Std.
	Instrument cluster (list instruments)	N.A.
	Keyless entry	N.A.
	Tripminder (avg. spd. fuel)	N.A.
	Voice alert (list items)	N.A.
	Other	
Message center		Light bar message center - Opt.
Fuel door lock (remote, key, electric)		Remote - Std.
Lamps	Auto head on/off delay, dimming	N.A.
	Cornering	N.A.
	Courtesy (map reading)	Front door courtesy - Std. Front reading - Opt.
	Door lock, ignition	Ignition-Opt.
	Engine compartment	Opt.
	Fog	N.A.
	Glove compartment	Opt.
	Trunk	Opt.
	Other	Dome- - Std.
Mirrors	Day/night (auto. man.)	Manual - Std.
	L.H. (remote, power, heated)	Remote - Std. Power - Opt.
	R.H. (convex, remote, power, heated)	Manual convex - Std. Power - convex - Opt.
	Visor vanity (RH/LH, illuminated)	RH Illuminated - Opt.
Parking brake - auto release (warning light)		Auto release - N.A.
Power equipment	Door locks/ deck lid - specify	Door locks - Opt.
	Seat (2-4-6 way)	
	heated (driver, pass., other)	
	lumbar, hip, thigh support (power, manual)	6 Way - left 50/50 - Opt. Caravelle SE
	reclining (driver, pass.)	
	memory (1-2 preset, recline)	
	Side windows	Opt.
	Vent windows	N.A.
Radio Systems	Antenna (location, whip, w/shield, power)	Whip - Std. - Right front fender
	AM, FM, stereo, tape, CB	See Page 19A
	Speaker (number, location) Premium sound	See Page 19A
Roof open air/fixed (flip-up, sliding, "T")		N.A.
Speed control device		Opt.
Speed warning device (light, buzzer, etc.)		N.A.
Tachometer (rpm)		N.A.
Telephone system - mobile		N.A.
Theft protection-type		Inside Hood Release-Std. Glove Box Lock-Std. Locking Steering Column-Std. Anti-theft Labels-Std. Inside fuel filler door release - Std.

**MVMA Specifications Form**  
**Passenger car**  
**METRIC (U.S. Customary)**

Car Line PLYMOUTH CARAVELLE

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- 
1. AM Electronically Tuned Radio (includes 1 front speaker) Std. - Caravelle N.A. - Caravelle SE
  2. AM/FM/MX ETR (Includes 2 front 2 rear speaker system) - Std. - CaravelleSE N.A. - Caravelle
  3. AM/FM/MX Cassette/ETR (Includes 4 front 2 rear speaker system) - Opt.



**MVMA Specifications Form****Passenger car****METRIC (U.S. Customary)****Cae and Body Dimensions**Car Line **PLYMOUTH CARAVELLE**Model Year **1987**Issued **6-20-86**

Revised(\*)

**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 J1100 "Motor Vehicle Dimensions", unless otherwise specified.

Body Type	SAE Ref. No.	
		<b>41</b>

**Width**

Tread (front)	W101	1464 (57.6)
Tread (rear)	W102	1453 (57.2)
Vehicle width	W103	1727 (68.0)
Body width at SqRP (front)	W117	1725 (67.9)
Vehicle width (front doors open)	W120	3431 (135.1)
Vehicle width (rear doors open)	W121	3189 (125.6)
Front fender overall width	W106	1709 (67.3)
Rear fender overall width	W107	1727 (68.0)
Tumble-home (deg.)	W122	23°

**Length**

Wheelbase	L101	2624 (103.3)
Vehicle length	L103	4703 (185.2)
Overhang (front)	L104	1000 (39.4)
Overhang (rear)	L105	1079 (42.5)
Upper structure length	L123	2477 (97.5)
Rear wheel C/L "X" coordinate	L127	2712 (106.8)
Cowl point "X" coordinate	L125	537 (21.1)
Front end length at centerline	L126	1458 (57.0)
Rear end length at centerline	L129	778 (30.6)

**Height\***

Passenger distribution (front/rear)	PD 1,2,3	2 - Front	3 - Rear
Trunk/cargo load		--	
Vehicle height	H101	1350 (53.1)	
Cowl point to ground	H114	915 (36.0)	
Deck point to ground	H138	946 (37.2)	
Rocker panel front to ground	H112	252 (9.9)	
Bottom of door closed front to ground	H133	285 (11.2)	
Rocker panel rear to ground	H111	183 (7.2)	
Bottom of door closed rear to ground	H135	252 (9.9)	
Windshield slope angle	H122	53°	
Backlight slope angle	H121	54°	

**Ground Clearance**

Front bumper to ground	H102	301 (11.9)
Rear bumper to ground	H104	276 (10.9)
Bumper to ground (front at curb mass (wt.))	H103	318 (12.5)
Bumper to ground (rear at curb mass (wt.))	H105	356 (14.0)
Angle of approach (degrees)	H106	19°
Angle of departure (degrees)	H107	15°
Ramp breakover angle (degrees)	H147	11°
Axle differential to ground (front/rear)	H153	N.A.
Min. running ground clearance	H156	119 (4.7)
Location of min. run. ground clearance		Frnt. Susp. C'mbr. Brkt. (left hand side)

\* All vehicle height and ground clearance are made at the Manufacturer's Design Load Weight unless otherwise noted.

Manufacturer's Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

**MVMA Specifications Form**  
**Passenger car**  
**METRIC (U.S. Customary)**  
**Cae and Body Dimensions**

Car Line **PLYMOUTH CARAVELLE**

Model Year **1987**

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Revised(•)

See Key Sheets for Definitions

Body Type

SAE Ref. No.	All
	Center Arm Rest - Bench Seat

**Front Compartment**

SqRP front, "X" coordinate	L31	1405 (55.3)
Effective head room	H61	981 (38.6)
Max. eff. leg room (accelerator)	L34	1072 (42.2)
SqRP to heel point	H30	264 (10.4)
SqRP to heel point	L53	864 (34.0)
Back angle	L40	24°
Hip angle	L42	97°
Knee angle	L44	127°
Foot angle	L46	87°
Design H - point front travel	L17	197 (7.8)
Normal driving & riding seat track trvl.	L23	178 (7.0)
Shoulder room	W3	1414 (55.7)
Hip room	W5	1343 (52.9)
Upper body opening to ground	H50	1091 (43.0) To "O"
Steering wheel maximum diameter*	W9	381 (15.0)
Steering wheel angle	H18	26°
Accel. heel pt. to steering wheel center	L11	511 (20.1)
Accel. heel pt. to steering wheel center	H17	641 (25.2)
Steering wheel to C/L of thigh	H13	110 (4.3)
Steering wheel torso clearance	L7	333 (13.1)
Headlining to roof panel	H37	15 (0.6)
Undepressed floor covering thickness	H67	22 (0.9)

**Rear Compartment**

SqRP Point couple distance	L50	832 (32.8)
Effective head room	H63	950 (37.4)
Min. effective leg room	L51	931 (36.7)
SqRP (second to heel)	H31	284 (11.2)
Knee clearance	L48	43 (1.7)
Compartment room	L3	690 (27.2)
Shoulder room	W4	1425 (56.1)
Hip room	W6	1358 (53.5)
Upper body opening to ground	H51	1090 (42.9)
Back angle	L41	25°
Hip angle	L43	87.5°
Knee angle	L45	96°
Foot angle	L47	129.5°
Headlining to roof panel (second)	H38	15 (0.6)
Depressed floor covering thickness	H73	13 (0.5)

**Luggage Compartment**

Usable luggage capacity [L (cu. ft.)]	V1	484 (17.1)
Liftover height	H195	738 (39.1)

**Interior Volumes (EPA Classification)**

Vehicle class (subcompact, compact, etc.)		Mid - size
Interior volume index (cu. ft.)		114.2
Trunk/cargo index (cu. ft.)		484 (17.1)

\* See Page 14

All linear dimensions are in millimeters (inches) unless otherwise noted.

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

Car Line **PLYMOUTH CARAVELLE**

Model Year **1987** Issued **6-20-86** Revised(•)

See Key Sheets for Definitions

Body Type

SAE  
Ref.  
No.

41

**Station Wagon - Third Seat**

SgRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
SgRP to heel point	H87	
Knee clearance	L87	
Seat facing direction	SD1	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

**Station Wagon - Cargo Space**

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]	V2	
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	V4	
Cargo volume index-rear of 2-seat	V10	

**Hatchback - Cargo Space**

Cargo length at front seatback height	L208	
Cargo length at floor (second)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index[m <sup>3</sup> (ft. <sup>3</sup> )]	V3	
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	V4	
Cargo volume index-rear of 2-seat	V10	

**Aerodynamics\***

Wheel lip to ground, front	630 (24.8)
Wheel lip to ground, rear	634 (24.96)
Frontal area [m <sup>2</sup> (ft. <sup>2</sup> )] (c)	2.02 (21.69) (a)
Drag coefficient (Cd)	N.A.

All linear dimensions are in millimeters(inches) unless otherwise noted

\*EPA Loaded Vehicle Weight, Loading Conditions

(a) All tires, two mirrors, antenna and vinyl roof

**MVMA Specifications Form**  
**Passenger car**  
**METRIC (U.S. Customary)**

Car Line PLYMOUTH CARAVELLE  
 Model Year 1987 Issued 6-20-86 Revised(\*)

Body Type

All

**Vehicle Fiducial Marks**

Fiducial Mark Number*		Define Coordinate Location
Front		The center of gauge holes located in front longitudinal approximately 836 mm (32.9 in.) from centerline of front wheels.
Rear		The center of gauge holes located in rear longitudinal approximately 3363.9 mm (132.4 in) from the centerline of front wheels.
Fiducial Mark Number		
Front	W21	433.5 (17.1)
	L54	925 (36.4)
	H81	-9 (-0.35) Bottom surface of Longitudinal
	H161	
	H163	
Rear	W22	527.6 (20.8)
	L55	3452.4 (135.9)
	H82	236 (9.3) Bottom Surface of Longitudinal
	H162	
	H164	

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

**MVMA Specifications Form**  
**Passenger car**  
**METRIC (U.S. Customary)**

Car Line **PLYMOUTH CARAVELLE**

Model Year **1987** Issued **6-20-86** Revised(\*)

Body Type

All

**Lamps and Headlamps Shape\***

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	683.8
		Lowest	--
	Taillamp (SAE - H128)	Highest**	682.0
		Lowest	676.2
	Sidemarker	Front	683.3
		Rear	676.2
Distance from centerline of car to center of bulb or marker	Headlamp	Inside	443.0
		Outside**	631.5
	Taillamp	Inside	487.0
		Outside**	777.5
	Directional	Front	603.5
		Rear	612.0

Halogen headlamp (std., opt., n.a.)	Lo beam	Standard
	Hi beam	Standard
	Replaceable bulb	N.A.
	Shape	Rectangular
Headlamp other than above	Lo beam	--
	Hi beam	--
	Replaceable bulb	--
	Shape	--
	Type	--

\* Measured at curb mass (weight)

\*\* If single lamps are used enter here.

**MVMA Specifications Form**  
**Passenger car**  
**METRIC (U.S. Customary)**

Car Line PLYMOUTH CARAVELLE  
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Estimated

Model	Vehicle Mass (Weight)							SHIPPING MASS, kg (weight, lb.)**
	CURB MASS, kg (weight, lb.)*			% PASS. MASS DISTRIBUTION				
	Front	Rear	Total	Pass. in Front		Pass. in Rear		
				Front	Rear	Front	Rear	
Caravelle four door - sedan								
2.2L(135.0 in. <sup>3</sup> ) EDF engine	736	438	1174	51.6	48.4	19.8	80.2	1144
	(1623)	(966)	(2589)					(2523)
Caravelle SE four door - sedan								
2.2L (135.0 in. <sup>3</sup> ) EDFengine	738	440	1178	51.6	48.4	19.8	80.2	1148
	(1627)	(969)	(2596)					(2530)

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

\*\* Shipping mass (weight) definition-

**MVMA Specifications Form**  
**Passenger car**  
**METRIC (U.S. Customary)**

Car Line PLYMOUTH CARAVELLE  
 Model Year 1987 Issued 6-20-86 Revised(\*)

Estimated

	Optional Equipment Differential Mass (Weight)*			
Equipment	MASS, kg (weight, lb.)			Remarks
	Front	Rear	Total	
2.2L (135.0 in.3) turbo-charged engine, EDG	16 (37)	0 (-1)	16 (36)	
2.5L (153.0 IN.3) EDM EFI engine	16 (36)	0 (-1)	16 (35)	
500 Amp. battery	0.9 (2)	0 (0)	0.9 (2)	
Trunk dress - up	0 (0)	3.2 (7)	3.2 (7)	
Front & Rear floor mats	1.8 (4)	1.4 (3)	3.2 (7)	
Dual electric outside-mirrors	1.4 (3)	0.4 (1)	1.8 (4)	
Air conditioning	25.4 (56)	-1.4 (-4)	24 (52)	
Power windows	5.5 (12)	4.5 (10)	10 (22)	
Power door locks	0.9 (2)	0.9 (2)	1.8 (4)	
Power seat - left	3.6 (8)	3.2 (7)	6.8 (15)	
Bumper guards-front&rear	0.9 (2)	0.9 (2)	1.8 (4)	
Automatic speed control	1.8 (4)	0 (0)	1.8 (4)	
AM Stereo/FM Stereo/ ETR Radio	0.4 (1)	1.4 (3)	1.8 (4)	Std. on SE
Conventional spare tire	-5.0 (-11)	14.5 (32)	9.5 (21)	
Class III wheel covers	2.8 (6)	2.8 (6)	5.6 (12)	
Undercoating	1.4 (3)	1.8 (4)	3.2 (7)	

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