# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

## Passenger Car

# 1987

| Manufacturer | Car Line | |
|---|---|---|
| **CHRYSLER MOTORS** | **PLYMOUTH HORIZON** | |
| Mailing Address | | |
| **DETROIT, MICHIGAN 48288** | Issued **JUNE 20, 1986** | Revised **JANUARY 8, 1987** |

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)**

Car Line PLYMOUTH HORIZON/TURISMO
Model Year 1987 Issued 6-20-86 Revised (•) January 8, 1987

| | |
|---|---|
| **Engine description/Carb.** | **2.2L (135.0 in³)** |
| **Engine Code** | **2bbl, EDE •** |

## 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 35.79 (78.9) |
| 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 -51.5 |
| Cylinder liner material | | n.a. |
| Head gasket thickness (compressed) | | 1.78 (.070) |
| Minimum combustion chamber total volume (cm³) | | Clearance volume: 67.14 |
| Cyl. no. system (front to rear)* | L. Bank | Right to left as installed in car 1, 2, 3, 4 |
| | R. Bank | -- |
| Firing order | | 1, 3, 4, 2 |
| Intake manifold matl. & mass [kg(lbs.)]** | | Aluminum 2.62 (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*** | | 138.5 (305.2) |

## Engine - Pistons

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

## Engine - Camshaft

| | | |
|---|---|---|
| Location | | Overhead |
| Material & mass kg (weight, lbs.) | | Hardenable cast iron 2.92 (6.4) |
| 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 folowing: starter, alternator, air cleaner, carburetor, manifolds, water pump, fuel pump, engine-mounted emission controls, drive belts, oil filter, right engine mount, and throttle controls as required

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

Car Line **PLYMOUTH HORIZON**
Model Year **1987** Issued **6-20-86** Revised(•) _____

| | |
|---|---|
| Engine description/Carb. | **2.2L (135.0 in.3)** |
| Engine Code | **2 - V, EDE** |

## 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) |

## Engine - Crankshaft

| | | |
|---|---|---|
| Material & Mass [kg., (weight lbs.)] | | Nodular iron 15.19 (33.5) |
| 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 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 | Garrett |
| Super - charger - manufacturer | N.A. |
| Charge cooler | N.A. |

**MVMA Specifications Form**
**Passenger car**
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Car Line **PLYMOUTH HORIZON**
Model Year **1987** Issued **6-20-86** Revised(•) **Jan. 8, 1987**

Actual •

| Model | Vehicle Mass (Weight) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | CURB MASS, kg (weight, lb.)* | | | % PASS. MASS DISTRIBUTION | | | | SHIPPING MASS, kg (weight, lb.)** |
| | | | | Pass. in Front | | Pass. in Rear | | |
| | Front | Rear | Total | Front | Rear | Front | Rear | |
| Horizon | | | | | | | | |
| Four door - hatchback | 642 | 374 | 1016 | 49.6 | 50.4 | 20.0 | 80.0 | 989 |
| | (1415) | (825) | (2240) | | | | | (2180) |
| Turismo | 644 | 401 | 1045 | 47.9 | 52.1 | 20.5 | 79.5 | 1018 |
| Two door - hatchback | (1420) | (883) | (2303) | | | | | (2243) |

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

** Shipping mass (weight) definition-

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**Passenger car**
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Car Line **PLYMOUTH HORIZON**
Model Year **1987** Issued **6-20-86** Revised(•) **Jan. 8, 1987**

Actual •

## Optional Equipment Differential Mass (Weight)*

| Equipment | MASS, kg (weight, lb.) Front | Rear | Total | Remarks |
|---|---|---|---|---|
| Automatic transmission | 15.0 (33) | -0.9 (-2) | 14.1 (31) | |
| Power steering | 9.1 (20) | 0.4 (1) | 9.5 (21) | |
| Console | 2.3 (5) | 0.4 (1) | 2.7 (6) | |
| Cargo compartment dress-up | -0.4 (-1) | 7.7 (17) | 7.3 (16) | Horizon only |
| Radio AM Stereo/FM Stereo | 1.8 (4) | 0.5 (1) | 2.3 (5) | Four Door Models • |
| Radio AM Stereo/FM Stereo | 2.8 (6) | 2.8 (6) | 5.6 (12) | Two door models |
| Radio AM Stereo/FM Stereo Cassette | 3.1 (7) | 0.9 (2) | 4.0 (9) | Four Door Models • |
| AM Stereo/FM Stereo Cassette | 3.6 (8) | 3.1 (7) | 6.7 (15) | Two door models |
| Air conditioning | 34.9 (77) | 3.1 (-7) | 31.8 (70) | |

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

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

## Passenger Car

# 1987

| Manufacturer | Car Line | |
|---|---|---|
| CHRYSLER MOTORS | PLYMOUTH VOYAGER | |
| Mailing Address | | |
| DETROIT, MICHIGAN 48288 | Issued JUNE 20, 1986 | Revised JANUARY 8, 1987 |

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

Car Line PLYMOUTH VOYAGER
Model Year 1987 Issued 6-20-86 Revised (•) JAN. 8, 1987

| Engine description/Carb. Engine Code | 2.2L (135.0 in³) 2 bbl, EDE | 2.5L (153.0 in³) 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 35.79 (78.9) | Cast Iron 39.42 (86.9) |
| Cylinder block deck height | | 237.8 (9.36) | 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 (cm³) | | 48.5 -51.5 | |
| Cylinder liner material | | n.a. | |
| Head gasket thickness (compressed) | | 1.78 (.070) | |
| Minimum combustion chamber total volume (cm³) | | Clearance volume: 65.31 | Clearance Volume: 73.815 |
| Cyl. no. system (front to rear)* | L. Bank | Right to left as installed in car 1, 2, 3, 4 | |
| | R. Bank | -- | |
| Firing order | | 1, 3, 4, 2 | |
| Intake manifold matl. & mass [kg(lbs.)]** | | Aluminum 2.62 (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*** | | 140.25 (309.2) | 140.57 (309.9) |

## Engine - Pistons

| | | | |
|---|---|---|---|
| Material & mass, g (weight, oz.) piston only | | Aluminum | |
| | | 445 (15.7) | 428.1 (15.1) • |

## Engine - Camshaft

| | | | |
|---|---|---|---|
| Location | | Overhead | |
| Material & mass kg (weight, lbs.) | | Hardenable cast iron 2.92 (6.4) | |
| Drive type | Chain/belt | Belt | |
| | Width/pitch | Width: 24.7 (0.972) (a) | 23.8 (0.937) (a) |

*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 folowing: starter, alternator, manifolds, water pump, engine-mounted emission controls, drive belts, oil filter, right engine mount, and throttle controls as required. EDE engine also includes carburetor , air cleaner, ignition system and fuel pump.

(a) Pitch: 9.52 (0.375)

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

Car Line PLYMOUTH VOYAGER
Model Year 1987 Issued 6-20-86 Revised (•) _____

| | | | |
|---|---|---|---|
| **Engine description/Carb.** | | **2.6 L (155.9 in³) 2 bbl, EEA** | **3.0L (181.4 in³) MPI, EFA** |
| **Engine Code** | | | |
| **ENGINE - GENERAL** | | | |
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc,dohc, ohv, hemi, wedge, pre-chamber, etc. | | Four-cylinder, inline,sohc, front, transverse | V-6, 60°, sohc, front, transverse |
| Manufacturer | | Mitsubishi Motors Corporation | |
| No. of Cylinders | | 4 | 6 |
| Bore | | 91.1 (3.59) | |
| Stroke (C/L to C/L) | | 98.0 (3.86) | 76.0 (2.99) |
| Bore spacing (C/L to C/L) | | 101 (3.98) | 108 (4.25) |
| Cylinder block mat'l & mass [kg (lbs)] (machined) | | Cast iron 48.5 (106.9) | Cast iron 47.14 (103.9) |
| Cylinder block deck height | | 251 (9.88) | 210.5 (8.29) |
| Cylinder block length | | 439 (17.28) | 384 (15.12) |
| Deck clearance (minimum) (above or below block) | | 0.0 at o.d<br>0.3 (0.011) at crown | Partial Open Deck Design |
| Cylinder head material & mass kg (lbs.) | | Aluminum alloy 10.0 (22.0) | Aluminum alloy 14.25 (31.4) |
| Cylinder head volume (cm³) | | 75.2 | 46.3 +/- 0.666 |
| Cylinder liner material | | n.a. | |
| Head gasket thickness (compressed) | | 1.25 (.049) | 1.20-1.325 (0.047-0.052) |
| Minimum combustion chamber total volume (cm³) | | 83.0 | |
| Cyl. no. system (front to rear)* | L. Bank | 1,2,3,4 (a) | 2,4,6 |
| | R. Bank | -- | 1,3,5 |
| Firing order | | 1, 3, 4, 2 | 1,2,3,4,5,6 |
| Intake manifold matl. & mass [kg(wt., lbs.)]** | | Aluminum alloy 2.70 (5.95) | Die-cast aluminum 8.44 (18.6) |
| Exhaust manifold matl. & mass [kg(lbs..)]** | | Cast iron 5.40 (11.90) | Nodular cast iron 10.04 (22.1) |
| Recommended fuel (leaded, unleaded, diesel) | | Regular unleaded | Regular unleaded |
| Fuel antiknock index $\frac{R+M}{2}$ | | 87 Octane or higher | 87 Octane or higher |
| Total dressed engine mass (wt) dry*** | | 156.0 (343.9) | 158.94 (350.4) |
| **Engine - Pistons** | | | |
| Material & mass, g (weight, oz.) piston only | | Aluminum alloy | |
| | | 465 (16.4) | 575 (20.3) |
| **Engine - Camshaft** | | | |
| Location | | overhead | |
| Material & mass kg (weight, lbs.) | | Cast iron | |
| | | 2.86 (6.31) | 4.89 (10.8) |
| Drive type | Chain/belt | Chain | Belt |
| | Width/pitch | 23.3 (0.917)/9.525 (0.375) | --/9.525 (0.375) |

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

**Finished state

***Dressed engine mass (weight) includes the following:

(a) Right to left as installed in car

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

Car Line PLYMOUTH VOYAGER
Model Year 1987 Issued 6-20-86 Revised (•) January 8, 1987

| Engine Description/Carb. / Engine Code | 2.2 L (135.0 in.³) 2V EDE | 2.5 L (153.0 in.³) EFI EDM | 2.6 L (156.0 in.³) 2V EEA | 3.0 L (181.4 in.³) MPI EFA |
|---|---|---|---|---|

## 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) | | (a) | 90 (194) |
| 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 | | internal | external |
| Cooling System Capacity | With heater - L(qt.) | 8.1 (8.5) | | 9.0 (9.5) | 9.5 (10) |
| | With air cond. - L(qt.) | -- | | | |
| | 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 | Standard | | | |
| | Type (cross-flow, etc.) | Vertical flow | | | |
| | Construction (fin&tube, mechanical, braze, etc.) | Tube & fin, spacer, soldered, single row | | | |
| | Material, mass[kg(wt., lbs.)] (b) | (c) 3.60 (8.0) | (c) 3.60 (8.0) • | (c) 3.76 (8.3) • | (c) 3.67 (8.1) • |
| | Width | 409 (16.1) | | | |
| | Height | 425 (16.7) | | | |
| | Thickness | 18 (0.7) | | | |
| | Fins per inch | 18 | | | 23 |
| Radiator end tank material | | Nylon 66 | | | |
| Fan | Std., elec., opt. | Electric | | | |
| | Number of blades & type (flex, solid, material) | 4-blade plastic | | | 4-blade plastic or 6-blade plastic |
| | Diameter & projected width | 320 (12.6) / 30.5 (1.2) | | | (d) |
| | Ratio (fan to crankshaft rev.) | -- | | | |
| | Fan cutout type | Electric motor | | | |
| | Drive type (direct, remote) | -- | | | |
| | RPM at idle (elec.) | 1200 | | | 1870 |
| | Motor rating (wattage) (elec.) | 70 | | | 90 |
| | Motor switch (type & loc.)(elec.) | (e) | | Bimetal, radiator | (e) |
| | Switch point (temp., press.) (elec.) | (f) | | 93 °C (200 °F) | (f) |
| | Fan shroud (material) | Metal | | | (g) |

(a) 88 °C(190 °F) Federal, 82 °C (180 °F) California
(b) Mass (weight) shown is for purchased assembly.
(c) Copper-brass
(d) 320(12.6) / 30.5(1.2) or 356 (1.4) / 30.5 (1.2)
(e) Thermistor, water box
(f) 99 °C (210 °F) (low speed), 110 °C (230 °F) (high speed)
(g) Metal or plastic

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

Car Line PLYMOUTH VOYAGER
Model Year 1987 Issued 6-20-86 Revised (•) _____

| | | | | |
|---|---|---|---|---|
| **Engine Description/Carb.** | | | **2.2L (135.0 in³), 2V** | **2.6L (155.9 in³), 2V** |
| **Engine Code** | | | **EDE** | **EEA** |
| **Engine - Fuel System** (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used) | | | | |
| Induction type: carb., fuel inj. sys., etc. | | | Carburetor | |
| Carburetor | Mfr. | | Holley | Mikuni |
| | Choke (type) | | electric | Water temp. |
| | Idle spd. rpm (spec. neutral or drive and propane if used) | Manual | | |
| | | | | |
| | | Automatic | | |
| | | | | |
| Idle A/F mix | | | -- | |
| Fuel Injection | Point of injection (no.) | | | |
| | Constant,pulse, flow | | | |
| | Control (electronic, mech.) | | | |
| | System pressure [kPa (psi)] | | | |
| Intake manifold heat control (exhaust or water thermostatic or fixed) | | | | |
| Air cleaner type | Standard | | Oil wetted paper element | Dry;non-woven cloth (a) |
| | optional | | -- | -- |
| Fuel pump | Type (elec. or mech.) | | Mechanical | |
| | Location (eng., tank) | | Front side of transverse engine | |
| | Pressure range [kPa (psi)] | | 30 to 40 (4.5 to 6.0) | |

**Fuel Tank**

| | | |
|---|---|---|
| Capacity [refill L (gallons)] | | 57 (15.0) |
| Location (describe) | | forward of axle |
| Attachment | | Galv. or terne plated strap to floor pan |
| Material & mass [kg (weight lbs.)] | | terne plated steel 12.79 (28.2) |
| Filler pipe | Location & material | left side - lead dipped steel |
| | Connection to tank | Tube and Grommet - Rubber |
| 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. | opt. |
| | Capacity [L (gallons)] | 75 (20.0) |
| | Location & material | forward of axle, terne plated steel |
| | Attachment | Galv. or terne plated strap to floor pan |
| Auxiliary tank | Opt., n. a. | |
| | Capacity [L (gallons)] | |
| | Location & material | |
| | Attachment | |
| | Selector switch or valve | |
| | Separate fill | |

(a) California-- Carbon element

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Car Line PLYMOUTH VOYAGER
Model Year 1987 Issued 6-20-86 Revised (•) _____

| Engine Description/Carb. Engine Code | 2.5L (153.0in³) EFI, EDM | 3.0L (181.4 in³) MPI, EFA |
|---|---|---|

## 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) | | n.a. | |
| | Idle spd. rpm (spec. neutral or drive and propane if used) | Manual | | |
| | | | | |
| | | Automatic | | |
| | | | | |
| Idle A/F mix | | | -- | |
| Fuel Injection | Point of injection (no.) | | Throttle body (1) | Intake ports (6) |
| | Constant,pulse, flow | | pulse | |
| | Control (electronic, mech.) | | electronic | |
| | System pressure [kPa (psi)] | | 100 (14.5) | 379.6 (55.1) |
| 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 | |
| | Pressure range [kPa (psi)] | | 116-262 @ 12V & 15PSI (a) | 159-290 @ 12V & 36PSI (a) |

## Fuel Tank

| | | | |
|---|---|---|---|
| Capacity [refill L (gallons)] | | 57 (15.0) | |
| Location (describe) | | forward of axle | |
| Attachment | | Galv. or terne plated strap to floor pan | |
| Material & mass [kg (weight lbs.)] | | terne plated steel 13.65 (30.1) | terne plated steel 14.40 (31.7) |
| Filler pipe | Location & material | left side - lead dipped steel | |
| | Connection to tank | Tube and Grommet - Rubber | |
| 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. | opt. | |
| | Capacity [L (gallons)] | 75 (20.0) | |
| | Location & material | forward of axle, terne plated steel | |
| | Attachment | Galv. or terne plated strap to floor pan | |
| 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.

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

Car Line **PLYMOUTH VOYAGER**
Model Year **1987** Issued **6-20-86** Revised(•) **Jan. 8, 1987**

| | | | | |
|---|---|---|---|---|
| Engine Description/Carb. | | | **2.2L(135.0in³) 2 bbl.** | **2.6L (155.9 in.³) 2 bbl.** |
| Engine Code | | | **EDE** | **EDE** |

## Vehicle Emission Control

| | | | | |
|---|---|---|---|---|
| Exhaust Emission Control | Type (air injection, eng. modifications) | | air injection(a) | aspirator (a)(b) |
| | Air injection | Pump or pulse | pos. displacement valve pump | pulse |
| | | Driven by | V-belt | exhaust pressure |
| | | Air distribution (head, manifold, etc.) | single point | |
| | | Point of entry | exhaust manifold (c) | |
| | Exhaust Gas Recirc-ulation | Type (controlled flow, open oriface, other) | controlled flow | |
| | | Exhaust source | manifold | |
| | | Point of exhaust inj. (spacer, carb., manif., etc.) | intake manifold | |
| | Catalytic Converter | Type | oxidation(d) | |
| | | Number of | one(e) | |
| | | Location(s) | below exhaust manifold(f) | |
| | | Volume [L(in.³)] | 105 oxidation (g) | |
| | | Substrate type | monolithic | |
| Crankcase Emission Control | Type (ventilates to atmosphere, induction system, other) | | closed induction system | |
| | Energy source (manifold, vacuum, carburetor, other) | | manifold vacuum | manifold |
| | Discharges (to intake manif.,other) | | intake manifold | |
| | Air inlet (breather cap, other) | | air cleaner | |
| Evapora-tive emis-sion control Electronic system | Vapor vented to (crank-case, canister, other) | Fuel tank | canister | |
| | | Carburetor | canister | |
| | Vapor storage position | | canister | |
| | 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 through separate resonator) Material & mass [kg. (weight lbs.)]] | | one reverse flow<br>stainless steel 6.21 (13.7) |
| Resonator no. & type | | none • |
| Exhaust pipe | Branch o. d., wall thickness | none |
| | Main o. d. ,wall thickness | 50.8 x 1.4 |
| | Material & mass [kg. (weight lbs.)] | stainless steel 5.35 (11.8)(h) |
| Intermed-iate pipe | o. d., & wall thickness | none |
| | Material & mass [kg. (weight lbs.)] | -- |
| Tail pipe | o. d., & wall thickness | 50.8 x 1.1 |
| | Material & mass [kg. (weight lbs.)] | stainless steel 3.63 (8.0) |

(a) exhaust gas recirculation, engine modification, catalytic converter
(b) ICalifornia - Pulse air feeder
(c) California - between catalysts
(d) California - 3-Way + oxidation
(e) California - two
(f) California - below exhaust manifold and at exhaust manifold
(g) California - 43 (Oxid.) and 61 (Oxid.)
(h) Includes 1.26 kg. (2.79 lbs.) - Federal; 1.90kg. (4.18 lbs.) - California, substrate and stainless steel mesh.

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

Car Line **PLYMOUTH VOYAGER**
Model Year **1987** Issued **6-20-86** Revised(•) **Jan. 8, 1987**

| | | |
|---|---|---|
| Engine Description/Carb. | **2.5L(153.0in³)** | **3.0L (181.4 in.³)** |
| Engine Code | **EFI** | **MPI** |
| | **EDM** | **EFA** |

## Vehicle Emission Control

| | | | | |
|---|---|---|---|---|
| Exhaust Emission Control | Type (air injection, eng. modifications | | exhaust gas recirculation, engine mod., catalytic converter | |
| | Air injection | Pump or pulse | none | |
| | | Driven by | -- | |
| | | Air distribution (head, manifold, etc.) | -- | |
| | | Point of entry | -- | |
| | Exhaust Gas Recirculation | Type (controlled flow, open oriface, other) | controlled flow | |
| | | Exhaust source | .manifold collector | manifold |
| | | Point of exhaust inj. (spacer, carb., manif., etc.) | intake manifold | |
| | Catalytic Converter | Type | 3 - Way | |
| | | Number of | one | |
| | | Location(s) | under floor | |
| | | Volume [L(in.³)] | 1.23 (75) 3WC + 0.9 (55) 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 | |
| Evaporative emission control Electronic system | Vapor vented to (crankcase, canister, other) | Fuel tank | canister | |
| | | Carburetor | -- | |
| | Vapor storage position | | canister | |
| | 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 through separate resonator) Material & mass [kg. (weight lbs.)]] | | one reverse flow | |
| | | stainless steel 6.21 (13.7) | stainless steel 7.26 (16.0) |
| Resonator no. & type | | none • | one straight through • |
| Exhaust pipe | Branch o. d., wall thickness | none | 50.8 x 1.4 |
| | Main o. d. ,wall thickness | 50.8 x 1.4 | 63.5 x 1.4 |
| | Material & mass [kg. (weight lbs.)] | stainless steel 5.35 (11.8)* | stainless steel 5.58 (12.3)* |
| Intermediate pipe | o. d., & wall thickness | none | |
| | Material & mass [kg. (weight lbs.)] | -- | |
| Tail pipe | o. d., & wall thickness | 50.8 x 1.1 | |
| | Material & mass [kg. (weight lbs.)] | stainless steel 3.63 (8.0) | stainless steel 3.76 (8.3) |

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

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

Car Line PLYMOUTH VOYAGER
Model Year 1987 Issued 6-20-86 Revised (•) _____

| Engine Description/Carb. Engine Code | 2.2L -(135.0 in³) 2V-EDE | 2.5L- (153.0 in³) EFI-EDM |
|---|---|---|

## Transmissions/Transaxle

| | | |
|---|---|---|
| Manual 3-speed (std., opt., n.a.) (mfr.) | NA | NA |
| Manual 4-speed (std., opt., n.a.) (mfr.) | NA | NA |
| Manual 5-speed (std., opt., n.a.)(mfr.) | STD (CHRYSLER) | STD (CHRYSLER) |
| Manual overdrive (std., opt., n.a.) (mfr.) | NA | NA |
| Automatic (std., opt., n.a.)(mfr.) | OPT (CHRYSLER) | OPT (CHRYSLER) |
| Automatic overdrive (std., opt., n.a.) (mfr.) | NA | NA |

## Manual Transmissions/Transaxle

| | | | |
|---|---|---|---|
| Number of forward speeds | | | 5 |
| Transmission ratios | In first | | 3.29 |
| | In second | | 2.08 |
| | In third | | 1.45 |
| | In fourth | | 1.04 |
| | In fifth | | 0.72 |
| | In overdrive | | -- |
| | In reverse | | 3.14 |
| Synchronous meshing (specify gears) | | | ALL FORWARD GEARS |
| Shift lever location | | | FLOOR |
| Lubricant | Capacity [L(pt.)] | | 2.3L (4.81pt.) |
| | Type recommended | | API SF/CC |
| | SAE viscosity number | Summer | SAE 5W-30 |
| | | Winter | SAE 5W-30 |
| | | Extreme cold | SAE 5W-30 |

## Clutch (Manual Transmission)

| | | |
|---|---|---|
| Make, type, engagement (describe) - (hydraulic, cable, rod) | | FICHTEL AND SACHS-DRY DISC CABLE |
| Assist (yes, no/percent) | | NO |
| Type pressure plate springs | | BELLEVILLE |
| Total spring load [N(lb.)] | | 4700 (1057) |
| No. of clutch driven discs | | ONE |
| Clutch facing | Material | WOVEN ASBESTOS |
| | Manufacturer | TEXTAR |
| | Part Number | 181862101002 |
| | Rivets/Plate | 16 |
| | Rivet Size | 9.5 (0.374) |
| | Outside & inside diameter | 228x150 (8.98x5.91) |
| | Total eff. area [$cm^2$ ($in^2$)] | 438.0 (67.9) |
| | Thickness | 3.5 (0.138) |
| | Engagement cushion method | WAVE SPRING SEGMENTS |
| Release Bearing | Type & method of lubrication | ANGULAR CONTACT BALL BEARING PERMANENTLY LUBED WITH GREASE |
| Torsional Damping | Method: springs, frictional material | COIL SPRINGS AND FRICTION FIBER WASHERS |

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

Car Line PLYMOUTH VOYAGER
Model Year 1987 Issued 5-15-86 Revised (•) January 8, 1987

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. | SHK 53 | SHK 52 7 PASSENGER | SHK 52 5 PASSENGER |
|---|---|---|---|---|
| **Width** | | | | |
| Tread (front) | W101 | | 1522 (59.9) | |
| Tread (rear) | W102 | | 1578 (62.1) | |
| Vehicle width | W103 | | 1833 (72.2) | |
| Body width at SgRP (front) | W117 | | 1764 (69.4) | |
| Vehicle width (front doors open) | W120 | | 3614 (142.3) | |
| Vehicle width (rear doors open) | W121 | | -- | |
| Front fender overall width | W106 | | 1782 (70.2) | |
| Rear fender overall width | W107 | | 1833 (72.2) | |
| Tumble-home (deg.) | W122 | | 15 (.60) | |
| **Length** | | | | |
| Wheelbase | L101 | 3024 (119.1) | 2846 (112.0) • | |
| Vehicle length | L103 | 4838 (190.5) | 4467 (175.9) • | |
| Overhang (front) | L104 | 840 (33.1) | 840 (33.1) | |
| Overhang (rear) | L105 | 974 (38.3) | 781 (30.7) • | |
| Upper structure length | L123 | -- | -- | |
| Rear wheel C/L "X" coordinate | L127 | 3113 (122.6) | 2935 (115.6) • | |
| Cowl point "X" coordinate | L125 | 286 (11.3) | 286 (11.3) | |
| Front end length at centerline | L126 | 1037 (40.8) | 1037 (40.8) • | |
| Rear end length at centerline | L129 | -- | -- | |
| **Height*** | | | | |
| Passenger distribution (front/rear) | PD1,2,3 | 2 + 2 + 3 • | 2 + 2 + 3 • | 2 + 3 |
| Trunk/cargo load | | -- | -- | -- |
| Vehicle height | H101 | 1644 (64.7) | 1637 (64.4) | 1637 (64.4) |
| Cowl point to ground | H114 | 1139 (44.8) | 1140 (44.9) | 1138 (44.8) |
| Deck point to ground | H138 | -- | -- | -- |
| Rocker panel-front to ground | H112 | 276 (10.9) | 277 (10.9) | 274 (10.8) |
| Bottom of door closed-front to grd. | H133 | 319 (12.6) | 320 (12.6) | 317 (12.5) |
| Rocker panel-rear to ground | H111 | 282 (11.1) | 281 (11.1) | 275 (10.8) |
| Bottom of door closed-rear to grd. | H135 | 322 (12.7) | 322 (12.7) | 318 (12.5) |
| Windshield slope angle | H122 | | 55 (2.2) | |
| Backlight slope angle | H121 | | 23 (0.9) | |
| **Ground Clearance** | | | | |
| Front bumper to ground | H102 | 344 (13.5) | 345 (13.6) | 345 (13.6) |
| Rear bumper to ground | H104 | 329 (13.0) | 327 (12.9) | 319 (12.6) |
| Bumper to ground [front at curb mass (wt.)] | H103 | | 374 (14.7) | |
| Bumper to ground [rear at curb mass (wt.)] | H105 | 378 (14.9) | 377 (14.8) | 377 (14.8) |
| Angle of approach (degrees) | H106 | | 24° | |
| Angle of departure (degree) | H107 | 20° | 24° | 24° |
| Ramp breakover angle (degrees) | H147 | 13° | 14° | 13.4° |
| Axle differential to ground (front/rear) | H153 | | N.A. | |
| Min. running ground clearance | H156 | 87 (3.4) | 76 (3.0) | 69.4 (2.7) |
| Location of min. run. grd. clear. | | | RR Axle (Shock) | |

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

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

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

Car Line PLYMOUTH VOYAGER
Model Year 1987 Issued 5-15-86 Revised (•) Jan. 8, 1987

| Body Type | SAE Ref. No. | 52 | | 53 | |
|---|---|---|---|---|---|
| | | 5-passenger | 7-passenger | 5-passenger | 7-passenger |
| **Front Compartment** | | | | | |
| SgRP front, "X" coordinate | L31 | 1334 (52.5) | | | |
| Effective head room | H61 | 990 (39.0) | | | |
| Max. eff. leg room (accelerator) | L34 | 971 (38.2) | | | |
| SgRP to heel point | H30 | 350 (13.8) | | | |
| SgRP to heel point | L53 | 699 (27.5) | | | |
| Back angle | L40 | 22° | | | |
| Hip angle | L42 | 91° | | | |
| Knee angle | L44 | 103° | | | |
| Foot angle | L46 | 87° | | | |
| Design H-point front travel | L17 | 183 (7.2) | | | |
| Normal driving & riding seat track trvl. | L23 | 142 (5.6) | | | |
| Shoulder room | W3 | 1484 (58.4) | | | |
| Hip room | W5 | 1344 (52.9) | | | |
| Upper body opening to ground | H50 | 1320 (52.0) to zero | | | |
| Steering wheel maximum diameter* | W9 | 381 (15.0) | | | |
| Steering wheel angle | H18 | 34.5° | | | |
| Accel. heel pt. to steer. whl. cntr. | L11 | 342 (13.5) | | | |
| Accel. heel pt. to steer. whl. cntr. | H17 | 704 (27.7) | | | |
| Steering wheel to C/L of thigh | H13 | 79 (3.1) | | | |
| Steering wheel torso clearance | L7 | 308 (12.1) | | | |
| Headlining to roof panel (front) | H37 | 19 (0.7) | | | |
| Undepressed floor covering thickness | H67 | 25 (1.0) | | | |
| **Rear Compartment** | | | | | |
| SgRP Point couple distance | L50 | 971 (38.2) | 815 (32 1) | 1087 (42.8) | 902 (35.5) |
| Effective head room | H63 | 970 ( 38.2) | 978 (38.5) | 969 (38.1) | 974 (38.3) |
| Min. effective leg room | L51 | 959 (37.8) | 955 (37.6) | 959 (37.8) | 960 (37.8) |
| SgRP (second to heel) | H31 | 340 (13.4) | | 338 (13.3) | 341 (13.4) |
| Knee clearance | L48 | 169 (6.7) • | 46 (1.8) • | 273 (10.7) • | 111 (4.4) • |
| Compartment room | L3 | 693 (27.3) | 847 (33.3) | 935 (36.8) | 751 (29.6) |
| Shoulder room | W4 | 1557 (61.3) | | | |
| Hip room | W6 | 1620 (63.8) | 1666 (65.6) | 1620 (63.8) | 1666 (65.6) |
| Upper body opening to ground | H51 | 1295 (51.9) to zero | | | |
| Back angle | L41 | 22° | | | |
| Hip angle | L43 | 92° | | | |
| Knee angle | L45 | 101° | 100° | 101° | |
| Foot Angle | L47 | 130° | 129° | 130° | |
| Headlining to roof panel (second) | H38 | 19 (0.7) | | 22 (0.9) | |
| Depressed floor covering thickness | H73 | 25 (1.0) | | | |
| **Luggage Compartment** | | | | | |
| Usable luggage capacity [L (cu. ft.)] | V1 | n.a. | | | |
| Liftover height | H195 | | | | |
| **Interior Volumes (EPA Classification)** | | | | | |
| Vehicle class (subcompact,compact, etc.) | | n.a. | | | |
| Interior vloume index (cu. ft.) | | n.a. | | | |
| Trunk/cargo index (cu. ft.) | | n.a. | | | |

*See page 14. All linear dimensions are in millimeters (inches) unless otherwise noted

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

Car Line PLYMOUTH VOYAGER
Model Year 1987 Issued 6-20-86 Revised(•) _____

| Body Type | | | Van GVW 4040 | Van GVW 5040 | Wagon |
|---|---|---|---|---|---|
| **Lamps and Headlamps Shape*** | | | | | |
| Height above ground to center of bulb or marker | Headlamp (SAE - H127) | Highest** | 729.3 | 748.0 | 745.9 |
| | | Lowest | -- | | |
| | Taillamp (SAE - H128) | Highest** | 838.8 | 857.0 | 820.9 |
| | | Lowest | -- | | |
| | Sidemarker | Front | 668.8 | 687.5 | 673.4 |
| | | Rear | 838.8 | 857.0 | 820.9 |
| Distance from centerline of vehicle to center of bulb or marker | Headlamp | Inside | -- | | |
| | | Outside** | 619.5 | | |
| | Taillamp | Inside | -- | | |
| | | Outside** | 832.5 | | |
| | Directional | Front | 567 and 715 (a) | | |
| | | Rear | 832.5 | | |

| | | |
|---|---|---|
| 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.
(a) There are two front park and turn signal lamps.

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

Car Line PLYMOUTH VOYAGER
Model Year 1987 Issued 6-20-86 Revised(•) Jan. 8, 1987

Actual (unbold type) • & Estimated (bold type) •

| Model | Vehicle Mass (Weight) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | CURB MASS, kg (weight, lb.)* | | | % PASS. MASS DISTRIBUTION | | | | SHIPPING MASS, kg (weight, lb.)** |
| | | | | Pass. in Front | | Pass. in Rear | | |
| | Front | Rear | Total | Front | Rear | Front | Rear | |
| 2.2L (135.0 in.3) EDE engine | | | | | | | | |
| Voyager - standard | 816 (1798) | 543 (1198) | 1359 (2996) | 56.3 | 43.7 | 22.6 | 77.4 | 1326 (2924) |
| Voyager SE - standard • | 823 (1814) | 571 (1260) | 1394 (3074) | 56.3 | 43.7 | 22.6 | 77.4 | 1348 (2972) |
| Voyager LE - standard | 830 (1831) | 574 (1266) | 1404 (3097) | 56.3 | 43.7 | 22.6 | 77.4 | 1358 (2995) |
| 2.5L (153.0 in.3) EDM engine | | | | | | | | |
| Voyager SE - extended | **850 (1875)** | **671 (1480)** | **1521 (3355)** | 56.3 | 43.7 | 28.3 | 71.7 | **1475 (3253)** |
| Voyager LE - extended | **859 (1893)** | **686 (1512)** | **1545 (3405)** | 56.3 | 43.7 | 28.3 | 71.7 | **1499 (3303)** |

* 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 VOYAGER
Model Year 1987 Issued 6-20-86 Revised(•) Jan. 8, 1987

Actual •

## Optional Equipment Differential Mass (Weight)*

| Equipment | MASS, kg (weight, lb.) Front | Rear | Total | Remarks |
|---|---|---|---|---|
| 2.6L (155.9 in.3) engineEEA | 15 | -0.9 | 14.1 | Std. model only |
| | (33) | (-2) | (31) | |
| 3.0L (181.4 in.3)engine EFA | 44 | 2 | 46 | Std. model |
| | (96) | (5) | (101) | |
| 3.0L (181.4 in.3)engine EFA | 30.8 | 0.5 | 31.3 | extended model |
| | (68) | (1) | (69) | |
| 500 ampere battery | 5.9 | -0.4 | 5.5 | with 2.2L and 2.6L engines |
| | (13) | (-1) | (12) | |
| 7-passenger seating | 0 | 44.4 | 44.4 | Std. model Std. extended model |
| | (0) | (98) | (98) | |
| 8-passenger seating | 0.4 | 43.1 | 43.1 | Std. model only, negligible ext. model |
| | (1) | (95) | (96) | |
| 5-pass.w/convert-a-bed | 5.0 | 18.1 | 23.1 | Std. model |
| | (11) | (40) | (51) | |
| 5-pass. w/convert-a-bed | -0.4 | -54 | -54.4 | extended model |
| | (-1) | (-119) | (-120) | |
| 6-pass. w/convert-a-bed | 5.0 | 18.1 | 23.1 | Std. model only |
| | (11) | (40) | (51) | |
| Automatic transmission | 11.8 | -1.8 | 10.0 | 2.2 and2.5L engines: incl. w/ 2.6 & 3.0L engines |
| | (26) | (-4) | (22) | |
| Air conditioning | 27.2 | -2.3 | 24.9 | 2.2 and 2.5L engines |
| | (60) | (-5) | (55) | |
| | 25.4 | -1.8 | 23.6 | 2.6L engine |
| | (56) | (-4) | (52) | |
| | 30.4 | -1.8 | 28.6 | 3.0Lengine |
| | (67) | (-4) | (63) | |
| Rear seat heater | 3.6 | 5.4 | 9.0 | Std. model only |
| | (8) | (12) | (20) | |
| Sound insulation package | 2.7 | 10.9 | 13.6 | base model |
| | (6) | (24) | (30) | |
| | 0.4 | 3.6 | 4.0 | SE: Std. LE |
| | (1) | (8) | (9) | |
| Power driver's seat | 5.5 | 4.0 | 9.5 | |
| | (12) | (9) | (21) | |
| Luggage rack | 2.7 | 6.3 | 9.0 | |
| | (6) | (14) | (20) | |
| AM Stereo/FM Stereo/ | 0.4 | 2.7 | 3.1 | w/ base model and SE: negligible on LE |
| Cassette | (1) | (6) | (7) | |
| Heavy-duty suspension | -0.9 | 10.4 | 9.5 | Std. model with 5 and 6 passenger seating |
| | (-2) | (23) | (21) | |
| | 0.4 | 9.2 | 7.6 | Std. model with 7 and 8 passenger seating |
| | (1) | (16) | (17) | |
| | 1.8 | 1.4 | 3.2 | extended model with 5 passenger seating |
| | (4) | (3) | (7) | |
| | 1.8 | 4.0 | 5.8 | extended model with 7 and 8 passenger seating |
| | (4) | (9) | (13) | |

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

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

## Passenger Car

# 1987

| Manufacturer | Car Line | |
|---|---|---|
| **CHRYSLER MOTORS** | **PLYMOUTH GRAN FURY** | |
| Mailing Address | | |
| **DETROIT, MICHIGAN 48288** | Issued **JUNE 20, 1986** | Revised **JANUARY 8, 1987** |

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)

Car Line PLYMOUTH GRAN FURY
Model Year 1987 Issued 6-20-86 Revised (•) January 8, 1987

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

## ENGINE - GENERAL

| | | |
|---|---|---|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc,dohc, ohv, hemi, wedge, pre-chamber, etc. | | 90° V-8 OHV, Front, Longitudinal |
| Manufacturer | | Chrysler |
| No. of Cylinders | | 8 |
| Bore | | 99.3 (3.91) |
| Stroke (C/L to C/L) | | 84.1 (3.31) |
| Bore spacing (C/L to C/L) | | 113.3 (4.46) |
| Cylinder block material & mass kg (lbs) (machined) | | Cast Iron 62.709 (138.25) |
| Cylinder block deck height | | 243.69/243.94 (9.594/9.604) |
| Cylinder block length | | |
| Deck clearance (minimum) (above or below block) | | 1.69 (0.066) Below |
| Cylinder head material & mass kg (lbs.) | | Cast Iron 44.162 (97.36) |
| Cylinder head volume (cm³) | | 65.7 to 69.7 |
| Cylinder liner material | | |
| Head gasket thickness (compressed) | | 0.85 (0.034) |
| Minimum combustion chamber total volume (cm³) | | Clearance Volume: 85.82 |
| Cyl. no. system (front to rear)* | L. Bank | 1, 3, 5, 7 |
| | R. Bank | 2, 4, 6, 8 |
| Firing order | | 1, 8, 4, 3, 6, 5, 7, 2 |
| Intake manifold material & mass [kg (lbs.)]** | | Cast iron 21.305 (46.97) |
| Exhaust manifold material & mass [kg (lbs.)]** | | Cast iron R: 6.187 (13.64); L: 6.803 (15.00) |
| Recommended fuel (leaded, unleaded, diesel) | | Premium unleaded (recommended)<br>Regular unleaded (acceptable) |
| Fuel antiknock index $\frac{R+M}{2}$ | | 91 octane or higher (recommended)<br>87 octane or higher (acceptable) |
| Total dressed engine mass (wt) dry*** | | 265.8 (586.0) |

### Engine - Pistons

| | |
|---|---|
| Material & mass, g (weight, oz.) piston only | Aluminum Alloy<br>594.6 ± 2 (20.97) |

### Engine - Camshaft

| | | |
|---|---|---|
| Location | | Center of "V" Above Crankshaft |
| Material & mass kg (weight, lbs.) | | Steel •<br>4.1 (9.05) |
| Drive type | Chain/belt | Chain |
| | Width/pitch | 15.2 (0.60)/9.52 (0.375) |

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

**Finished state

***Dressed engine mass (weight) includes the folowing: starter, alternator, air cleaner, carburetor,ignition system, manifolds, water pump, engine controls, standard fan & drive belts, oil filter, engine mount, and throttle controls as required.

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

Car Line PLYMOUTH GRAN FURY
Model Year 1987 Issued 6-20-86 Revised(•)

| | | |
|---|---|---|
| Engine description/Carb. | | 5.2 L (318 in.3) |
| Engine Code | | 2 bbl., ELA |
| **Engine - Valve System** | | |
| Hydraulic lifters (std., opt., n.a.) | | Std. |
| Valves | Number intake/exhaust | 8/8 |
| | Head O.D. intake/exhaust | 1.78 / 1.5 |
| **Engine - Connecting Rods** | | |
| Material & Mass [kg., (weight lbs.)] | | Forged steel: 0.758 (1.67) |
| **Engine - Crankshaft** | | |
| Material & Mass [kg., (weight lbs.)] | | Nodular iron : 24.22 (53.4) |
| End thrust taken by bearing (no.) | | Three |
| Number of main bearings | | Five |
| Seal (material, one, two piece design, etc.) | Front | One piece |
| | Rear | Two piece |
| **Engine - Lubrication System** | | |
| Normal oil pressure [kPa (psi) at eng. rpm] | | 30 to 80 @ 3000 rpm |
| 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 | | |
| Charge cooler | | |

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

Car Line **PLYMOUTH GRAN FURY**
Model Year **1987** Issued **6-20-86** Revised(•) **Jan. 8, 1987**

| | |
|---|---|
| Engine Description/Carb. | **5.2 L (318 in.³)** |
| Engine Code | **2 bbl.** |
| | **ELA** |

## Vehicle Emission Control

| | | | |
|---|---|---|---|
| Exhaust Emission Control | Type (air injection, eng. modifications) | | air injection, exh. gas recirc., engine mod's, catalytic converter |
| | Air injection | Pump or pulse | positive displacement vane pump |
| | | Driven by | V - belt |
| | | Air distribution (head, manifold, etc.) | exhaust port - cold; single point - hot |
| | | Point of entry | cylinder head - cold; exhaust manifold collector - hot |
| | Exhaust Gas Recirculation | Type (controlled flow, open oriface, other) | controlled flow |
| | | Exhaust source | intake manifold exhaust crossover |
| | | Point of exhaust inj. (spacer, carb., manif., etc.) | intake manifold floor |
| | Catalytic Converter | Type | 3 - Way + oxidation |
| | | Number of | three |
| | | Location(s) | below exhaust manifold (2) and under floor |
| | | Volume [L9in.³)] | 2 x 1.23(75) 3-way + 1.16(71) 3-way = 2.31(141) oxidation • |
| | | Substrate type | monolithic |
| Crankcase Emission Control | Type (ventilates to atmosphere, induction system, other) | | closed induction system |
| | Energy source (manifold, vacuum, carburetor, other) | | intake manifold vacuum |
| | Discharges (to intake manif.,other) | | carburetor base |
| | Air inlet (breather cap, other) | | crankcase inlet air cleaner |
| Evaporative emission control Electronic system | Vapor vented to (crankcase, canister, other) | Fuel tank | canister |
| | | Carburetor | canister |
| | Vapor storage position | | canister |
| | Closed loop (yes/no) | | yes - hot engine |
| | Open loop (yes/no) | | yes - cold engine |

## Engine - Exhaust System

| | | |
|---|---|---|
| Type (single, single with cross-over, dual, other) | | single with crossover • |
| Muffler no. & type (reverse flow, straight through separate resonator) Material & mass [kg. (weight lbs.)]] | | one reverse flow<br>10.64 (23.46) |
| Resonator no. & type | | none |
| Exhaust pipe | Branch o. d., wall thickness | 50.8 x 1.83 (2.00 x 0.072) |
| | Main o. d. ,wall thickness | 57.2 x 1.83 (2.25 x 0.072) |
| | Material & mass [kg. (weight lbs.)] | stainless steel 9.03 (19.9) (a) |
| Intermediate pipe | o. d., & wall thickness | 57.2 x 1.83 (2.25 x 0.072) |
| | Material & mass [kg. (weight lbs.)] | stainless steel 5.95 (13.1) (b) • |
| Tail pipe | o. d., & wall thickness | 47.8 x 1.2 (1.88 x 0.048) • |
| | Material & mass [kg. (weight lbs.)] | stainless steel (see muffler assembly) |

(a) Includes 1.86 kg. (4.10 lbs.) substrate and stainless steel mesh
(b) Includes 2.56 kg. (5.65 lbs.) substrate and stainless steel mesh

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

Car Line PLYMOUTH GRAN FURY
Model Year 1987 Issued 6-20-86 Revised (•) _____

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

## 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 number | Summer | -- |
| | | Winter | -- |
| | | Extreme cold | -- |

## Clutch (Manual Transmission)

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

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

Car Line PLYMOUTH GRAN FURY
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** | 721.0 (28.4) |
| | | Lowest | -- |
| | Taillamp (SAE - H128) | Highest** | 678.0 (26.7) |
| | | Lowest | -- |
| | Sidemarker | Front | 586.0 (23.1) |
| | | Rear | 678.0 (26.7) |
| Distance from centerline of car to center of bulb or marker | Headlamp | Inside | 460.0 (18.1) |
| | | Outside** | 662.0 (26.1) |
| | Taillamp | Inside | 442.0 (17.4) |
| | | Outside** | 777.0 (30.6) |
| | Directional | Front | 569.0 (19:9) |
| | | Rear | 610.0 (24.0) |

| | | |
|---|---|---|
| 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 GRAN FURY
Model Year 1987 Issued 6-20-86 Revised(•) Jan. 8, 1987

Actual •

**Vehicle Mass (Weight)**

| Model | CURB MASS, kg (weight, lb.)* | | | % PASS. MASS DISTRIBUTION | | | | SHIPPING MASS, kg (weight, lb.)** |
|---|---|---|---|---|---|---|---|---|
| | | | | Pass. in Front | | Pass. in Rear | | |
| | Front | Rear | Total | Front | Rear | Front | Rear | |
| Gran Fury Salon (Four door - sedan) | 928 (2046) | 692 (1525) | 1620 (3571) | 49.1 | 50.9 | 19.1 | 80.9 | 1579 (3481) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* 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 GRAN FURY
Model Year 1987 Issued 6-20-86 Revised(•) Jan. 8, 1987

Actual •

## Optional Equipment Differential Mass (Weight)*

| Equipment | MASS, kg (weight, lb.) Front | Rear | Total | Remarks |
|---|---|---|---|---|
| Under coating | 3.2 | 3.2 | 6.4 | |
| | (7) | (7) | (14) | |
| Air conditioning | 29 | -2.7 | 26.3 | |
| | (64) | (-6) | (58) | |
| Power windows | 3.6 | 4.1 | 7.7 | |
| | (8) | (9) | (17) | |
| Power door locks | 1.8 | 2.3 | 4.1 | without power windows |
| | (4) | (5) | (9) | |
| | 0.9 | 1.8 | 2.7 | with power windows |
| | (2) | (4) | (6) | |
| AM Stereo/FM Stereo/ Cassette Radio | 0.9 | 2.7 | 3.6 | |
| | (2) | (6) | (8) | |
| Wire wheel covers | 3.2 | 3.6 | 6.8 | |
| | (-1) | (9) | (8) | |
| Vinyl roof | 0.9 | 1.8 | 2.7 | Salon only |
| | (2) | (4) | (6) | |
| Trunk dress- up | -0.4 | 1.8 | 3.6 | |
| | (-1) | (4) | (6) | |

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

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

## Passenger Car

# 1987

| Manufacturer | Car Line | |
|---|---|---|
| CHRYSLER MOTORS | PLYMOUTH CARAVELLE | |
| Mailing Address | | |
| DETROIT, MICHIGAN 48288 | Issued JUNE 20, 1986 | Revised JANUARY 8, 1987 |

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 manufacturir company to whose products it relates. This specification form was developed by the automobile manufacturing companie 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 b the manufacturer.

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

Car Line PLYMOUTH CARAVELLE
Model Year 1987 Issued 6-20-86 Revised(•) Jan. 8, 1987

| 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)<br>heated (driver, pass., other)<br>lumbar, hip, thigh support (power, manual)<br>reclining (driver, pass.)<br>memory (1-2 preset, recline) | 6 Way - left 50/50 - Opt. Caravelle SE |
| | Side windows | Opt. |
| | Vent windows | N.A. |
| | Rear 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. Decklid release lockout • |

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)**

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**
Model Year **1987** Issued **6-20-86** Revised(•) **Jan. 8, 1987**

**Actual •**

**Vehicle Mass (Weight)**

| Model | CURB MASS, kg (weight, lb.)* | | | % PASS. MASS DISTRIBUTION | | | | SHIPPING MASS, kg (weight, lb.)** |
|---|---|---|---|---|---|---|---|---|
| | | | | Pass. in Front | | Pass. in Rear | | |
| | Front | Rear | Total | Front | Rear | Front | Rear | |
| Caravelle four door - sedan | | | | | | | | |
| 2.2L(135.0 in.3) EDF engine | 739 | 435 | 1174 | 51.6 | 48.4 | 19.8 | 80.2 | 1144 |
| | (1628) | (960) | (2588) | | | | | (2522) |
| Caravelle SE four door - sedan | | | | | | | | |
| 2.2L (135.0 in.3) EDFengine | 737 | 437 | 1174 | 51.6 | 48.4 | 19.8 | 80.2 | 1144 |
| | (1625) | (963) | (2588) | | | | | (2522) |

* 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(•) Jan. 8, 1987

Actual •

## Optional Equipment Differential Mass (Weight)*

| Equipment | MASS, kg (weight, lb.) Front | Rear | Total | Remarks |
|---|---|---|---|---|
| 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).

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

## Passenger Car

# 1987

| Manufacturer | Car Line | |
|---|---|---|
| CHRYSLER MOTORS | PLYMOUTH RELIANT | |
| Mailing Address | | |
| DETROIT, MICHIGAN 48288 | Issued JUNE 20, 1986 | Revised JANUARY 8, 1987 |

Questions concerning these specifications should be directed to the manufacturer whose address is shown above.

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

Car Line **PLYMOUTH RELIANT**
Model Year **1987** Issued **6-20-86** Revised(•) **Jan. 8, 1987**

| Body Type | 21, 41 | 45 |
|---|---|---|

## Body

| | | |
|---|---|---|
| Structure | | |
| Bumper system front - rear | Front - Urethane Fascia 4.2 kg. (9.25 lbs.) Ultra High Strength 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.) | Rear - Urethane Fascia 3.5 kg. (7.6 lbs..) Ultra High Strength Steel • 5.7 kg. (12.5 lbs.) |
| Anti - corrosion treatment | Extensive use of galvanized steel | |

## Body - Miscellaneous Information

| | | | |
|---|---|---|---|
| Type of finish (lacquer, enamel, other) | | Buffable acrylic enamel | |
| Hood | Hinge location (front, rear) | Rear | |
| | Type (counterbalance, prop) | Counterbalanced, clockspring | |
| | Release control (internal, external) | Internal | |
| Trunk-lid | Type (counterbalance, other) | Counterbalanced, Torsion bar | |
| | Internal release control (elec., mech., n.a.) | -- | |
| Hatch-back lid | Type (counterbalance, other) | | Gas Prop |
| | 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 | Bucket - Flex-O-Lator Mat | |
| | Rear | Full foam with zig zag helper elements | |
| | 3rd seat | -- | |
| Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.) | Front | Bucket - Flex-O-Lator Mat | |
| | Rear | Formed wire | |
| | 3rd seat | -- | |
| | | | |
| | | | |

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

Car Line PLYMOUTH RELIANT
Model Year 1987 Issued 6-20-86 Revised (•) _____

| Body Type | 21 | 41 | 45 |
|---|---|---|---|

## Restraint System

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

## Frame

| | | | | |
|---|---|---|---|---|
| Type and description (separate frame, unitized frame, partially unitized frame) | | Unitized construction | | |
| **Glass** | **SAE Ref. No.** | | | |
| Windshield glass exposed surface area [$cm^2(in^2)$] | S1 | 8069 (1251) | | |
| Side glass exposed surface area [$cm^2(in^2)$] | S2 | 9227 (1430) | 9647(1495) | 15542(2409) |
| Backlight glass exposed surface area [$cm^2(in^2)$] | S3 | 4559 (707) | 5139 (797) | 5234 (811) |
| Total glass exposed surface area [$cm^2(in^2)$] | S4 | 21855 (3388) | 22855(3543) | 28845(4471) |
| Windshield glass (type) | | Laminated safety glass | | |
| Side glass (type) | | Heat treated safety glass | | |
| Backlight glass (type) | | Heat treated safety glass | | |

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

Car Line **PLYMOUTH RELIANT**
Model Year **1987** Issued **6-20-86** Revised(•) **Jan. 8, 1987**

**Actual •**

**Vehicle Mass (Weight)**

| Model | CURB MASS, kg (weight, lb.)* | | | % PASS. MASS DISTRIBUTION | | | | SHIPPING MASS, kg (weight, lb.)** |
|---|---|---|---|---|---|---|---|---|
| | Front | Rear | Total | Pass. in Front | | Pass. in Rear | | |
| | | | | Front | Rear | Front | Rear | |
| Reliant | | | | | | | | |
| 2.2L (135.0 in.3) EDF engine | | | | | | | | |
| Two door - sedan | 676 | 392 | 1068 | 50.2 | 49.8 | 19.0 | 81.0 | 1038 |
| | (1491) | (865) | (2356) | | | | | (2290) |
| Four door - sedan | 678 | 403 | 1081 | 50.2 | 49.8 | 19.0 | 81.0 | 1051 |
| | (1495) | (888) | (2383) | | | | | (2317) |
| Reliant LE | | | | | | | | |
| 2.2L (135.0 in.3) EDF engine | | | | | | | | |
| Two door - sedan | 683 | 398 | 1081 | 50.2 | 49.8 | 19.0 | 81.0 | 1051 |
| | (1505) | (877) | (2382) | | | | | (2316) |
| Four door - sedan | 684 | 409 | 1093 | 50.2 | 49.8 | 19.0 | 81.0 | 1063 |
| | (1507) | (901) | (2408) | | | | | (2342) |
| Station Wagon | 674 | 444 | 1118 | 50.2 | 49.8 | 19.0 | 81.0 | 1088 |
| | (1487) | (978) | (2465) | | | | | (2399) |

* 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 RELIANT
Model Year 1987 Issued 6-20-86 Revised(•) Jan. 8, 1987

Actual •

## Optional Equipment Differential Mass (Weight)*

| Equipment | MASS, kg (weight, lb.) Front | Rear | Total | Remarks |
|---|---|---|---|---|
| 2.5L (153.0 in.3) EDM | 42 | -2 | 40 | LE only and auto. trans. |
| | (93) | (-5) | (88) | |
| Automatic transmission | 18 | -1 | 17 | EDF Engine Only • |
| | (41) | (-3) | (38) | |
| Air conditioning | 26.8 | -2.3 | 24.5 | |
| | (59) | (-5) | (54) | |
| Power steering | 9.1 | 0.4 | 9.5 | |
| | (20) | (1) | (21) | |
| Power door locks | 1.4 | 0.4 | 1.8 | two - door |
| | (3) | (1) | (4) | |
| | 2.3 | 1.3 | 3.6 | four - door and station wagon |
| | (5) | (3) | (8) | |
| Bench seat | 4.1 | 5.0 | 9.1 | LE two door, automatic trans. only |
| | (9) | (11) | (20) | |
| | 3.6 | 4.1 | 7.7 | LE four door and station wagon |
| | (8) | (9) | (17) | automatic transmission only |
| Console | 1.4 | 1.4 | 2.8 | |
| | (3) | (3) | (6) | |
| AM Stereo/FM Stereo radio | 1.7 | 2.3 | 4.0 | Reliant |
| | (4) | (5) | (9) | |
| | 0.4 | 1.4 | 1.8 | Reliant LE |
| | (1) | (3) | (4) | |
| 500 ampere battery | 5.9 | -0.9 | 5.0 | |
| | (13) | (-2) | (11) | |
| Rear wiper washer | -0.9 | 4.5 | 3.6 | Station wagon only |
| | (-2) | (10) | (8) | |
| Luggage rack | 0.4 | 5.0 | 5.4 | Station wagon only |
| | (1) | (11) | (12) | |
| Special sound insulation | 0.4 | 2.3 | 2.7 | Sedan |
| | (1) | (5) | (6) | |
| | 0 | 10.9 | 10.9 | Station wagon |
| | (0) | (24) | (24) | |
| Front & rear floor mats | 2 | 1 | 3 | |
| | (4) | (3) | (7) | |
| Tonneau cover | 0 | 2.3 | 2.3 | Station wagon |
| | (0) | (5) | (5) | |
| Conventional spare tire | -7 | 15 | 8 | Sedan |
| | (-15) | (32) | (17) | |
| | 5 | 11 | 6 | Station wagon |
| | (10) | (24) | (14) | |
| Undercoating | 0.9 | 1.4 | 2.3 | |
| | (2) | (3) | (5) | |
| | | | | |
| | | | | |
| | | | | |

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

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

## Passenger Car

# 1987

| Manufacturer | Car Line | |
|---|---|---|
| **CHRYSLER MOTORS** | **PLYMOUTH SUNDANCE** | |
| Mailing Address | | |
| **DETROIT, MICHIGAN 48288** | Issued **JUNE 20, 1986** | Revised **JANUARY 8, 1987** |

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)**

Car Line PLYMOUTH SUNDANCE
Model Year 1987 Issued 6 - 20 - 86 Revised (•) Jan. 8, 1987

## Car Models

| Model Description & Drive (FWD/RWD) | Introduction Date | Make, Car Line, Series, Body Type (Mfgr's Model Code) | No. of Designated Seating Positions (Front/Rear) | Max. Trunk/Cargo Load-Kilograms (Pounds) |
|---|---|---|---|---|
| **PLYMOUTH SUNDANCE-FWD** | | | | |
| 2 Door Hatchback | June 1986 | PH24 | 5(2,3) | 115 |
| 4 Door Hatchback | | PH44 | 5(2,3) | 115 |
| • | • | • | • | • |

(a) Available mid-year

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

Car Line **PLYMOUTH SUNDANCE**
Model Year **1987** Issued **6-20-86** Revised (•) **January 8, 1987**

**Power Teams** (Indicate whether standard or optional)
SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25°C and 29.61 in. Hg/100 kPa atmospheric pressure.

| SERIES AVAILABILITY | ENGINE | | | | | Exhaust S/D | TRANSMISSION TRANSAXLE | AXLE RATIO (std. first) |
|---|---|---|---|---|---|---|---|---|
| | Displ. Liters (in.³) | Carb. (Barrel, FI, etc.) | Compr. Ratio | SAE Net at RPM kW (bhp) | SAE Net at RPM Torque N-m (lb. ft.) | | | |
| OPT. • | 2.2L EDG | Multi-point EFI Turbo | 8.1 | 109 (146) 5200 | 230 (170) 3600 | S | 5 Speed Manual | 2.51 |
| | | | | | | | Automatic | 3.02 |
| STD. • | 2.2L EDF | EFI | 9.5 | 72 (97) 5200 | 165 (122) 3200 | S | 5 Speed Manual | 2.51 |
| | | | | | | | Automatic | 3.02 |

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

Car Line PLYMOUTH SUNDANCE
Model Year 1987 Issued 6-20-86 Revised (•) January 8, 1987

| | |
|---|---|
| **Body Type And/Or Engine Displacement** | All |

## 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<br>Jack Supports Located at Each End of Body Sills |
| Shock absorber (front & rear) | Type | Gas-charged-Hydraulic |
| | Make | Front: Delco Rear: Monroe or Maremont |
| | Piston diameter | Front: 32 (1.26); Rear: 30.2 (1.19) |
| | 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 | 94 (3.70) |
| | Full rebound | 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.) | 216 x 152 I.D. (8.5 x 6,0) I.D. |
| | Spring rate [N/mm (lb./in.)] | 21.0 (120) • |
| | Rate at wheel [N/mm (lb./in.)] | 24.5 (140) • |
| Stabilizer | Type (link, linkless, frameless) | Linkless |
| | Material & bar diameter | AISI 1090 Spring Steel: 25.4 (1.00) • |

## Suspension - Rear

| | | | |
|---|---|---|---|
| Type and description | | | Trailing Flex-arm with track bar |
| Drive and torque taken through | | | Arm |
| Travel | Full jounce | | 102 (4.02) |
| | Full rebound | | (3.54) |
| 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) |
| | Rate at wheel [N/mm (lb./in.)] | | 17.8 (102) curb position |
| | 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 | | 80 KSI HSLA Steel: 28.6mm (1.13 in) • |
| Track bar (type) | | | Channel type |

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

Car Line PLYMOUTH SUNDANCE
Model Year 1987 Issued 6-20-86 Revised (•) _____

| Body Type And/Or Engine Displacement | 2.2L (135.0in³) EFI, EDF Lowline | 2.2L (135.0in³) Turbo EFI, EDG |
|---|---|---|

## 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) | | | dual proportioning valve | |
| Power brake (std., opt., n.a.) | | | | standard | |
| Booster type (remote, integral, vac., hyd., etc.) | | | | vacuum, single or tandem | |
| Vacuum source (inline, pump, etc.) | | | | intake manifold | |
| Vacuum reservoir (volume in.³) | | | | -- | |
| Vacuum pump-type (elec, gear driven, belt driven, if other so state) | | | | -- | |
| Anti-skid device type (std., opt., n.a.) (F/R) | | | | N. A. | |
| Effective area [cm²(in.²)]* (F/R) | | | | 391 (60.6) | 423.12 (65.58) |
| Gross lining area [cm²(in.²)]** (F/R) | | | | 406.10 (62.95) | 456.90 (70.82) |
| Swept area[cm²(in.²)]*** (F/R) | | | | 1349.32 (209.15) | 1681.10 (260.57) |
| Rotor | Outer working diameter | | F/R | front: 235.7 (9.28) | front: 256.2 (10.09) |
| | Inner working diameter | | F/R | front: 159.7 (6.29) | front: 158.2 (6.23) |
| | Thickness | | F/R | front: 24.0 (0.945) | front: 24.0 (0.945) |
| | Material & type (vented/solid) | | F/R | front: damped cast iron, vented | |
| Drum | Diameter & width | | F/R | rear: 200 (7.87) x 37.62 (1.48) | |
| | Type and material | | F/R | rear: cast composite | |
| Wheel cylinder bore | | | | front: 54 (2.13); rear: 15.87 (0.625) | |
| 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/seg.) | | bonded | riveted: 6/shoe |
| | | Rivet size | | -- | 4.65 (0.18) dia. x 7.5 (0.3) |
| | | Manufacturer | | Chrysler | Bendix |
| | | Lining code ***** | | CW - K - FF | BX-JD-EE |
| | | Material | | molded metallic | |
| | | **** | Primary or out-board | 3700 x 12.45 (5.74 x 0.490) | 4970 x 11.08(7.70 x 0.436) |
| | | Size | Secondary or in-board | 3700 x 12.45 (5.74 x 0.490) | 4970 x 11.08 (7.70 x 0.436) |
| | | Shoe thickness (no lining) | | 5.30 (0.209) | 5.33 (0.210) |
| | Rear wheel | Bonded or riveted (rivets/seg.) | | riveted, 10/shoe | |
| | | Manufacturer | | Bendix | |
| | | Lining code ***** | | -- | |
| | | Material | | rolled asbestos | |
| | | **** | Primary or out-board | 198.56 x 32.5 x 6.65 (7.82 x 1.28 x 0.262) | |
| | | Size | Secondary or in-board | 198.56 x 32.5 x 6.65 (7.82 x 1.28 x 0.262) | |
| | | Shoe thickness (no lining) | | 2.17 (0.0854) | |

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

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

Car Line PLYMOUTH SUNDANCE
Model Year 1987 Issued 6-20-86 Revised (•)

| Engine Description/Carb. | 2.2L (135.0 in.3) | |
|---|---|---|
| Engine Code | EFI, EDF | EFI Turbo, EDG |

### Electrical - Supply System

| | | | |
|---|---|---|---|
| Battery | Make | Mopar | |
| | Model, std., (opt.) | Group 26 (Group 34) | Group 34 |
| | Voltage | 12V | |
| | Amps at 0°F cold crank | 335 (500) | 400(500) |
| | Minutes-reserve capacity | 62 (110) | 100(110) |
| | Amp/hr. - 20 hr. rate | 42 (66) | 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 |
| 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 |

### Electrical - Suppression

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

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

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

Car Line PLYMOUTH SUNDANCE
Model Year 1987 Issued 6-20-86 Revised(•) Jan. 8, 1987

| Body Type | All |
|---|---|

## Body

| | |
|---|---|
| Structure | |
| Bumper system front - rear | Front - TPO Fascia - 4.1 kg. (9.0 lbs.)<br>Ultra High Strength Steel - 120,000 psi 7.3 kg. (16.0 lbs.) •<br><br>Rear - TPO Fascia - 4.0 kg. (8.6 lbs.)<br>Ultra High Strength Steel - 120,000 psi 7.3 kg. (16.0 lbs.) • |
| Anti - corrosion treatment | Extensive use of galvonized steel |

## 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) | | -- |
| | Internal release control (elec., mech., n.a.) | | -- |
| Hatch-back lid | Type (counterbalance, other) | | Gas pressurized struts |
| | Internal release control (elec., mech., n.a.) | | Mechanical |
| 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 | Bucket - Flex-O-Lator Mat |
| | | Rear | Full volume foam |
| | | 3rd seat | -- |
| Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.) | | Front | Bucket - Flex-O-Lator Mat |
| | | Rear | Full volume foam |
| | | 3rd seat | -- |
| | | | |
| | | | |

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

Car Line PLYMOUTH SUNDANCE
Model Year 1987 Issued 6-20-86 Revised(•)

**See Key Sheets for Definitions**

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

| Body Type | SAE Ref. No. | 24 | 44 |
|---|---|---|---|
| **Width** | | | |
| Tread (front) | W101 | 1464 (57.6) | |
| Tread (raer) | W102 | 1453 (57.2) | |
| Vehicle width | W103 | 1710 (67.3) | |
| Body width at SgRP (front) | W117 | 1708 (67.2) | |
| Vehicle width (front doors open) | W120 | 4074 (160.4) | 3431 (135.1) |
| Vehicle width (rear doors open) | W121 | | 3297 (129.8) |
| Front fender overall width | W106 | 1670 (65.7) | |
| Rear fender overall width | W107 | 1710 (67.3) | |
| Tumble-home (deg.) | W122 | 24° | |
| **Length** | | | |
| Wheelbase | L101 | 2463 (97) | |
| Vehicle length | L103 | 4361 (171.7) | |
| Overhang (front) | L104 | 974 (38.3) | |
| Overhang (rear) | L105 | 924 (36.4) | |
| Upper structure length | L123 | 2413 (95) | |
| Rear wheel C/L "X" coordinate | L127 | 2552 (100.5) | |
| Cowl point "X" coordinate | L125 | 486 (19.1) | |
| Front end length at centerline | L126 | 1350 (53.1) | |
| Rear end length at centerline | L129 | 598 (23.5) | |
| **Height*** | | | |
| Passenger distribution (front/rear) | PD 1,2,3 | 2 - Front 3 - Rear | |
| Trunk/cargo load | | -- | |
| Vehicle height | H101 | 1339 (52.7) | |
| Cowl point to ground | H114 | 911 (35.9) | |
| Deck point to ground | H138 | 922 (36.3) | |
| Roker panel front to ground | H112 | 203 (8.0) | |
| Bottom of door closed front to ground | H133 | 235 (9.3) | 241 (9.5) |
| Rocker panel rear to ground | H111 | 173 (6.8) | |
| Bottom of door closed rear to ground | H135 | -- | 231 (9.1) |
| Windshield slope angle | H122 | 56° | |
| Backlight slope angle | H121 | 54° | |
| **Ground Clearance** | | | |
| Front bumper to ground | H102 | 246 (9.7) | |
| Rear bumper to ground | H104 | 261 (10.3) | |
| Bumper to ground [front at curb mass (wt.)] | H103 | 263 (10.4) | |
| Bumper to ground [rear at curb mass (wt.) | H105 | 344 (13.5) | |
| Angle of approach (degrees) | H106 | 16° | |
| Angle of departure (degrees) | H107 | 16° | |
| Ramp breakover angle (degrees) | H147 | 12° | |
| Axle differential to ground (front/rear) | H153 | Front 141 (5.6) | |
| Min. running ground clearance | H156 | 117 (4.6) | |
| Location of min. run. ground clearance | | Frt. 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 SUNDANCE
Model Year 1987 Issued 6-20-86 Revised(•) Jan. 8, 1987

See Key Sheets for Definitions

| Body Type | SAE Ref. No. | 24 | 44 |
|---|---|---|---|
| **Front Compartment** | | | |
| SgRP front, "X' coordinate | L31 | 1398 (55.0) | |
| Effective head room | H61 | 973 (38.3) | |
| Max. eff. leg room (accelerator) | L34 | 1055 (41.5) | |
| SgRP to heel point | H30 | 271 (10.7) | |
| SgRP to heel point | L53 | 841 (33.1) | |
| Back angle | L40 | 24° | |
| Hip angle | L42 | 96° | |
| Knee angle | L44 | 123° | |
| 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 | 1382 (54.4) | 1390 (54.7) |
| Hip room | W5 | 1404 (55.3) | 1408 (55.4) |
| Upper body opening to ground | H50 | 1101 (43.3) to "O" | |
| Steering wheel maximum diameter* | W9 | 381 (15.0) | |
| Steering wheel angle | H18 | 26° | |
| Accel. heel pt. to steering wheel center | L11 | 497 (19.6) | |
| Accel. heel pt. to steering wheel center | H17 | 637 (25.1) | |
| Steering wheel to C/L of thigh | H13 | 86 (3.4) | |
| Steering wheel torso clearance | L7 | 318 (12.5) | |
| Headlining to roof panel | H37 | 17 (0.7) | |
| Undepressed floor covering thickness | H67 | 22 (0.9) | |
| **Rear Compartment** | | | |
| SgRP Point couple distance | L50 | 740 (29.1) | |
| Effective head room | H63 | 949 (37.4) | |
| Min. effective leg room | L51 | 864 (34.0) | |
| SgRP (second to heel) | H31 | 281 (11.1) | |
| Knee clearance | L48 | -25 (-1.0) | |
| Compartment room | L3 | 614 (24.2) | |
| Shoulder room | W4 | 1334 (52.5) | 1384 (54.5) |
| Hip room | W6 | 1206 (47.5) | 1136 (44.7) |
| Upper body opening to ground | H51 | N.A. | 1106 (43.5) to "O" |
| Back angle | L41 | 25° | |
| Hip angle | L43 | 83° | |
| Knee angle | L45 | 84° | |
| Foot angle | L47 | 119° | |
| Headlining to roof panel (second) | H38 | 21 (0.8) | |
| Depressed floor covering thickness | H73 | 13 (0.5) | |
| **Luggage Compartment** | | | |
| Usable luggage capacity [L (cu. ft.)] | V1 | N.A. | |
| Liftover height | H195 | | |
| **Interior Volumes (EPA Classification)** | | | |
| Vehicle class (subcompact, compact, etc.) | | Compact • | |
| Interior volume index (cu. ft.) | | 101.9 | 102.4 |
| Trunk/cargo index (cu. ft.) | | 13.2 | 13.7 |

* See Page 14

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

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

Car Line PLYMOUTH SUNDANCE
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** | 635.1 (25.0) |
| | | Lowest | -- |
| | Taillamp (SAE - H128) | Highest** | 691.2 (27.2) |
| | | Lowest | 688.2 (27.1) |
| | Sidemarker | Front | 489.6 (19.3) |
| | | Rear | 688.2 (27.1) |
| Distance from centerline of car to center of bulb or marker | Headlamp | Inside | -- |
| | | Outside** | 528 (20.8) |
| | Taillamp | Inside | 629 (24.8) |
| | | Outside** | 733 (28.9) |
| | Directional | Front | 555 (21.9) |
| | | Rear | 629 (24.8) |

| | | |
|---|---|---|
| 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.

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Actual •

| Model | Vehicle Mass (Weight) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | CURB MASS, kg (weight, lb.)* | | | % PASS. MASS DISTRIBUTION | | | | SHIPPING MASS, kg (weight, lb.)** |
| | | | | Pass. in Front | | Pass. in Rear | | |
| | Front | Rear | Total | Front | Rear | Front | Rear | |
| 2.2L (135.0 in.$^3$) EDF engine | | | | | | | | |
| Two door - hatchback | 700 (1543) | 440 (970) | 1140 (2513) | 47 | 53 | 17 | 83 | 1110 (2447) |
| Four door - hatchback | 700 (1543) | 454 (1001) | 1154 (2544) | 47 | 53 | 17 | 83 | 1124 (2478) |
| 2.2L (135.0 in.$^3$) EDG engine | | | | | | | | |
| Two door - hatchback | 721 (1590) | 441 (972) | 1162 (2562) | 47 | 53 | 17 | 83 | 1132 (2496) |
| Four door - hatchback | 721 (1589) | 459 (1011) | 1180 (2600) | 47 | 53 | 17 | 83 | 1150 (2534) |

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

** Shipping mass (weight) definition-

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

Car Line PLYMOUTH SUNDANCE
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Actual •

## Optional Equipment Differential Mass (Weight)*

| Equipment | MASS, kg (weight, lb.) Front | Rear | Total | Remarks |
|---|---|---|---|---|
| Automatic transmission | 19 | -4 | 15 | EDF engine |
| | (42) | (-9) | (33) | |
| | 14 | -2 | 12 | EDG engine |
| | (30) | (-4) | (26) | |
| Air conditioniong | 26 | -2 | 24 | |
| | (57) | (-4) | (53) | |
| Sunroof | 3 | 5 | 8 | |
| | (7) | (10) | (17) | |
| Power windows | 4 | 3 | 7 | 2 - door models with power door locks |
| | (8) | (7) | (15) | |
| | 4 | 2 | 6 | 2 - door models without power door locks |
| | (8) | (6) | (14) | |
| Power door locks | 2 | 1 | 3 | 2 - door models without power windows |
| | (4) | (2) | (6) | 2 - door models with power windows - nil. |
| Full console with center arm rest | 3 | 2 | 5 | |
| | (5) | (5) | (10) | |
| AM Stereo/FM Stereo/ Cassette radio | 2 | 2 | 4 | |
| | (5) | (4) | (9) | |
| AM Stereo/FM Stereo radio | 1 | 2 | 3 | |
| | (3) | (4) | (7) | |
| Convenience package | 2 | 0 | 2 | Includes auto. speed control and tilt steering |
| | (5) | (0) | (5) | |
| Protection package | 3 | 3 | 6 | |
| | (6) | (6) | (12) | |
| Conventional spare tire | -0.9 | 6.3 | 5.4 | EDF engine only, P185/70 R 14 RBL tires |
| | (-2) | (14) | (12) | |
| | -1 | 6 | 5 | EDF engine only, P185/70 R 14 BSW tires |
| | (-2) | (13) | (11) | |

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