

# MOTOR VEHICLE Specifications

METRIC (U.S. Customary)

Passenger Car

# 1986

|   |                                 |         |
|---|---------------------------------|---------|
| Manufacturer<br><b>CHRYSLER CORPORATION</b>       | Car Line<br><b>DODGE LANCER</b> |         |
| Mailing Address<br><b>DETROIT, MICHIGAN 48288</b> | Issued<br><b>JUNE 15, 1985</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.

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

Car Line DODGE LANCER

Model Year 1986 Issued 6-15-85 Revised (a)

**Car Models**

| Model<br>Description & Drive<br>(FWD/RWD) | Introduction<br>Date | Make, Car Line,<br>Series, Body Type<br>(Mfr's Model Code) | No. of Designated<br>Seating Positions<br>(Front/Rear) | Max. Trunk/Cargo<br>Load-Kilograms<br>(Pounds) |
|---|----------------------|--|--|--|
| <b>FWD</b>                                | <b>SEPT. 1985</b>    |  |  |  |
| <b>LANCER</b><br>5-Door Sport Sedan       |                      | DH44   | 5(2/3)   | 52(115)  |
| <b>LANCER ES</b><br>5-Door Sport Sedan    |                      | DS44   | 5(2/3)   | 52(115)  |

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Car Line **DODGE LANCER**

Model Year **1986**

Issued **6-15-85**

Revised (●)

**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<br>AVAILABILITY | ENGINE                                  |                                |                 |                           |                            | E<br>x<br>h<br>a<br>u<br>s<br>t<br>S/D | TRANSMISSION<br>TRANSAXLE | AXLE RATIO<br>(std. first) |
|------------------------|---|--------------------------------|-----------------|---------------------------|----------------------------|--|---------------------------|----------------------------|
|                        | Displ.<br>Liters<br>(in. <sup>3</sup> ) | Carb.<br>(Barrel,<br>FI, etc.) | Compr.<br>Ratio | SAE Net at RPM            |                            |  |                           |                            |
|                        |   |                                |                 | kW<br>(bhp)               | Torque<br>N-m<br>(lb. ft.) |  |                           |                            |
| STD.                   | 2.2L<br>(135)                           | EFI                            | 9.5             | 72<br>(97)<br>@<br>5200   | 165<br>(122)<br>@<br>3200  | S                                      | MANUAL<br>5-Speed         | 2.57                       |
|                        |   |                                |                 | AUTOMATIC                 | 3.02                       |  |                           |                            |
| OPT.                   | 2.2L<br>(135)                           | EFI<br>Turbo                   | 8.1             | 109<br>(146)<br>@<br>5200 | 230<br>(170)<br>@<br>3600  | S                                      | MANUAL<br>5-Speed         | 2.57                       |
|                        |   |                                |                 | AUTOMATIC                 | 3.02                       |  |                           |                            |
| OPT.                   | 2.5L<br>(153)                           | EFI                            | 9.0             | 75<br>(100)<br>@<br>4800  | 184<br>(136)<br>@<br>2800  | S                                      | MANUAL<br>5-Speed         | 2.57                       |
|                        |   |                                |                 | AUTOMATIC                 | 3.02                       |  |                           |                            |

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Model Year **1986**

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**6-15-85**

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**

**ENGINE - GENERAL**

|   |  |   |
|---|--|---|
| Type & descr. (inline, V, angle, flat, location, front, mid, rear, transverse, long., sohc, dohc, ohv, hemi, wedge, pre-camber, etc.) | Four-Cylinder, In-line, OHC Canted Front, Transverse |   |
| Manufacturer  | Chrysler Corp.                                       |   |
| No. of Cylinders  | Four   |   |
| Bore  | 87.5 (3.44)  |   |
| Stroke  | 92.0 (3.62)  |   |
| Bore spacing (C/L to C/L)   | 96.0 (3.78)  |   |
| Cylinder block material & mass kg (lbs.)  | Cast Iron 35.33 (77.9)                               |   |
| Cylinder block deck height  | 237.8 (9.36)   |   |
| Deck clearance (minimum) (above or below block)   | 0.00   |   |
| Cylinder head material & mass kg (lbs.)   | Aluminum 9.824 (21.66)                               |   |
| Cylinder head volume (cm <sup>3</sup> )   | 48.5 - 51.5  |   |
| Head gasket thickness (compressed)  | 1.73 (0.068)   |   |
| Minimum combustion chamber total volume (cm <sup>3</sup> )  | 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   | 1, 3, 2, 4  |
| Intake manifold matl. & mass [kg(wt., lbs.)]  | 2.199 (4.850)  |   |
| Exhaust manifold matl. & mass [kg(wt., lbs.)]   | 5.93 (13.075)  |   |
| Recommended fuel (leaded, unleaded, diesel)   | Unleaded fuel  | Super or Premium Unleaded fuel  |
| Fuel antiknock index $\frac{R + M}{2}$  | 87 Octane or higher                                  | 91 Octane or higher (recommended)<br>87 Octane or higher (acceptable) |
| Total dressed engine mass (wt) dry**  | 134.4 (295.7)  | 145.06 (319.8)  |

**Engine - Pistons**

|  |                 |                         |
|--|-----------------|-------------------------|
| Material & mass, g (weight, oz.) piston only | 457 ± 2 (16.12) | Aluminum 441 ± 3 (15.5) |
|--|-----------------|-------------------------|

**Engine - Camshaft**

|                                   |             |  |
|-----------------------------------|-------------|--|
| Location                          |             | Overhead                                 |
| Material & mass kg (weight, lbs.) |             | Hardenable cast iron<br>2.903 (6.40)     |
| Drive type                        | Chain/belt  | Belt                                     |
|                                   | Width/pitch | Width: 24.5 (0.965); Pitch: 9.52 (0.375) |

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

\*\*Dressed engine mass (weight) includes the following: Starter, Alternator, Manifold, Water Pump, Engine Mounted Emission Controls, Drive Belts, Oil Filter, Engine Mounts Front & Right and Throttle Controls as required, Power Steering Pump

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Engine description/Carb.

Engine Code

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

**EFI, EDM**

**ENGINE - GENERAL**

|   |   |  |
|---|---|--|
| Type & descr. (inline, V, angle, flat, location, front, mid, rear, transverse, long., sohc,dohc, ohv, hemi, wedge, pre-camber, etc. | Four-Cylinder, In-line, SOHC Canted Front, Transverse |  |
| Manufacturer  | Chrysler  |  |
| No. of Cylinders  | Four  |  |
| Bore  | 87.5 (3.44)   |  |
| Stroke  | 104 (4.094)   |  |
| Bore spacing (C/L to C/L)   | 96.0 (3.78)   |  |
| Cylinder block material & mass kg (lbs.)  | Cast Iron   | 38.509 (84.6)                                |
| Cylinder block deck height  | 249.8   |  |
| Deck clearance (minimum) (above or below block)   | 0.00  |  |
| Cylinder head material & mass kg (lbs.)   | Aluminum  | 10.278 (22.66)                               |
| Cylinder head volume (cm <sup>3</sup> )   | 48.5 - 51.5   |  |
| Head gasket thickness (compressed)  | 1.73 (0.068)  |  |
| Minimum combustion chamber total volume (cm <sup>3</sup> )  | Clearance Volume: 73.818                              |  |
| 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(wt., lbs.)]  | Aluminum  | 2.199 (4.850)                                |
| Exhaust manifold matl. & mass [kg(wt., lbs.)]   | Cast Iron   | 5.93 (13.075)                                |
| Recommended fuel (leaded, unleaded, diesel)   | Unleaded fuel   |  |
| Fuel antiknock index $\frac{R + M}{2}$  | 87 Octane or higher                                   |  |
| Total dressed engine mass (wt) dry**  |   |  |

**Engine - Pistons**

|  |                           |
|--|---------------------------|
| Material & mass, g (weight, oz.) piston only | Aluminum Alloy<br>430 ± 2 |
|--|---------------------------|

**Engine - Camshaft**

|                                   |                                      |  |
|-----------------------------------|--------------------------------------|--|
| Location                          | Overhead                             |  |
| Material & mass kg (weight, lbs.) | Hardenable cast iron<br>2.903 (6.40) |  |
| Drive type                        | Chain/belt                           | Belt                                     |
|                                   | Width/pitch                          | Width: 24.5 (0.965); Pitch: 9.52 (0.375) |

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

\*\*Dressed engine mass (weight) includes the following: Starter, Alternator, Manifold, Water Pump, Engine Mounted Emission Controls, Drive Belts, Oil Filter, Engine Mounts Front & Right and Throttle Controls as required, Power Steering Pump

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Model Year **1986**

Issued **6-15-85**

Revised (•) \_\_\_\_\_

Engine Description/Carb.  
 Engine Code

**2.2L (135 in.<sup>3</sup>)**  
**EFI, EDF; EFI Turbo, EDG**

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

**Engine - Valve System**

|                                    |                          |                 |
|------------------------------------|--------------------------|-----------------|
| Hydraulic lifters (std., opt., NA) |                          | Standard        |
| 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: 0.691 (1.52) |
|---------------------------------------|----------------------------|

**Engine - Crankshaft**

|  |       |                           |                            |
|--|-------|---------------------------|----------------------------|
| Material & mass [kg., (weight, lbs.)]        |       | Nodular iron: 16.1 (35.6) | Nodular Iron 17.082 (37.6) |
| 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]     | 345 (50) @ 2000 |
| Type oil intake (floating, stationary)         | Stationary      |
| Oil filter system (full flow, part, other)     | Full flow (a)   |
| 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;<br>oil to ambient air) |                          |  |
| Oil filter   |                          |  |

**Engine - Intake System**

|                              |         |
|------------------------------|---------|
| Turbo charger - manufacturer | Garrett |
| Super charger - manufacturer |         |
| Charge cooler                |         |

(a) Filter change for turbocharged engines specified at every oil change

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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 |      |
|---|------|--|------|
| WO/AC                                   | W/AC | WO/AC  | W/AC |

**Engine - Cooling System**

|  |  |   |                       |
|--|--|---|-----------------------|
| Coolant recovery system (std., opt., n.a.)     |  | Standard                                  |                       |
| Coolant fill location (rad., bottle))          |  | Bottle                                    |                       |
| Radiator cap relief valve pressure [kPa (psi)] |  | 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.))    |  | -   |                       |
| Cooling System                                 | With heater - L(qt.)                             | 8.5 (9.0)                                 |                       |
|  | With air cond. - L(qt.)                          | -   |                       |
| Capacity                                       | Opt. equip. [specify - L(qt.)]                   | 8.5 (9.0)                                 |                       |
| 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.)]                    | Copper - Brass                            |                       |
|  | Width  | 533.4 (21.0)                              |                       |
|  | Height   | 387.6 ( 15.26 )                           |                       |
|  | Thickness  | 17.8 ( 0.7 )                              |                       |
|  | Fins per inch                                    | 13  | 15 M / 20 AUTO 23     |
| 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 1455             |
|  | Motor rating (wattage) (elec.)                   | 65  | 130 160               |
|  | Motor switch (type & loc.) (elec.)               | Thermistor, Water Box & A/C               |                       |
|  | Switch point (temp., press.) (elec.)             | 210° F (Low Speed); 230° F ( High Speed ) |                       |
|  | Fan shroud (material)                            | Metal                                     |                       |



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Engine Description/Carb.

Engine Code

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

**WO/AC**

**W/AC**

**Engine - Cooling System**

|  |  |   |                       |
|--|--|---|-----------------------|
| Coolant recovery system (std., opt., n.a.)     |  | Standard                                |                       |
| Coolant fill location (rad., bottle)           |  | Bottle                                  |                       |
| Radiator cap relief valve pressure [kPa (psi)] |  | 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.)]    |  | -                                       |                       |
| Cooling System                                 | With heater - L(qt.)                             | 8.5 (9.0)                               |                       |
|  | With air cond. - L(=)                            | -                                       |                       |
| Capacity                                       | Opt. equip. [specify - L(qt.)]                   | 8.5 (9.0)                               |                       |
| Water jackets full length of cy (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.)]                    | Copper - Brass                          |                       |
|  | Width  | 533.4 (21.0)                            |                       |
|  | Height   | 387.6 (15.26)                           |                       |
|  | Thickness  | 17.8 (0.7)                              |                       |
|  | Fins per inch                                    | 13                                      | 15/MTX 20/AUTO        |
| Radiator end tank material                     |  | Nylon 66                                |                       |
| Fan  | Std., elec., opt.                                | Electric                                |                       |
|  | Number of blades & type (flex, solid, material)  | 2-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                                    | 1885                  |
|  | Motor rating (wattage) (elec.)                   | 65                                      | 150                   |
|  | Motor switch (type & loc.) (elec.)               | Thermistor, Water Box & A/C             |                       |
|  | Switch point (temp., press.) (elec.)             | 210° F (Low Speed); 230° F (High Speed) |                       |
|  | Fan shroud (material)                            | Metal                                   |                       |

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Engine Description/Carb.  
 Engine Code

|   |   |   |
|---|---|---|
| 2.2L (135.0 in <sup>3</sup> )<br>EFI<br>EDF | 2.5L (153.0 in <sup>3</sup> )<br>EFI<br>EDM | 2.2L (135.0 in <sup>3</sup> )<br>Turbocharged, EFI<br>EDG |
|---|---|---|

**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.   |                                    |                                  |
|   | Choke (type)   |                                    |                                  |
|   | Idle spd. rpm (spec. neutral or drive and propane if used) | Manual                             | 900                              |
|   |  | Automatic                          | 700                              |
| 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)]                                 | 152 - 655 (22 - 95) @ 12V & 0 flow | 2503-875(73-122) @ 120 pph & 12V |

**Fuel Tank**

|                                    |                          |   |
|------------------------------------|--------------------------|---|
| Capacity [refill L (gallons)]      |                          | 53 (14.0)   |
| Location (describe)                |                          | forward of axle                                       |
| Attachment                         |                          | terne plated strap to floor pan                       |
| Material & mass [kg (weight lbs.)] |                          | terne plated steel                                    |
| 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                      |                          |   |

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

Car Line **DODGE LANCER**  
 Model Year **1986** Issued **6-15-85** Revised (•) \_\_\_\_\_

Engine Description/Carb.  
 Engine Code

| 2.2L (135.0 in <sup>3</sup> )<br>EFI<br>EDF | 2.5L (153.0 in <sup>3</sup> )<br>EFI<br>EDM | 2.2L (135.0 in <sup>3</sup> )<br>Turbo EFI<br>EDG |
|---|---|---|
|---|---|---|

**Vehicle Emission Control**

|                              |  |   |                               |
|------------------------------|--|---|-------------------------------|
| Exhaust Emission Control     | Type (air injection, eng. modifications)                 | (a)   | (b)                           |
|                              | Air Injection  | Pump or pulse                                       | pulse                         |
|                              |  | Driven by   | exhaust pressure              |
|                              |  | Air distribution (head, manifold, etc.)             | single point                  |
|                              |  | Point of entry                                      | exhaust manifold collector    |
|                              | Exhaust Gas Recirculation                                | 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             |
|                              |  | Number of   | one                           |
|                              |  | Location(s)   | below exhaust manifold        |
|                              |  | Volume [L(in <sup>3</sup> )]                        | 1.23 (75) 3WC + 0.74 (45) ox. |
|                              |  | 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 | Vapor vented to (crankcase, canister, other)             | Fuel tank   | canister                      |
|                              |  | carburetor  | --                            |
|                              | Vapor storage provision                                  | canister  |                               |
| Electronic system            | Closed loop (yes/no)                                     | yes - hot engine                                    |                               |
|                              | Open loop (yes/no)                                       | yes - cold engine                                   |                               |

**Engine - Exhaust System**

|   |   |  |
|---|---|--|
| Type (single, single with cross-over, dual, other)  | single 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) Mat'l & mass [kg(weight lbs.)] | one, reverse flow                             | stainless steel                        |
| Resonator no. & type  | aluminized steel                              | none                                   |
| Exhaust pipe  | Branch o. d., wall thickness                  | 50.8 × 1.4 (2.00 × 0.055)              |
|   | Main o. d., wall thickness                    | 57/63.5 × 1.4 (2.2/2.5 × 0.055)        |
|   | Material & mass [kg(weight lbs.)]             | 63.5 × 1.4 (2.50 × 0.055)              |
| Intermediate pipe   | o. d., & wall thickness                       | stainless steel                        |
|   | Material & mass [kg(weight lbs.)]             | stainless steel                        |
|   | o. d., & wall thickness                       | 57/50.8 × 1.4 (2.2/2.0 × 0.055)        |
| Tail pipe   | Material & mass [kg(weight lbs.)]             | aluminized steel                       |
|   | o. d., & wall thickness                       | stainless steel                        |
|   | Material & mass [kg(weight lbs.)]             | 50.8 × 1.1 (2.00 × 0.043)              |

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

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

(c) 47.8 × 1.1 (1.88 × 0.043)

(d) 47.8 × 1.2 (1.88 × 0.047)

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Car Line **DODGE LANCER**

Model Year **1986** Issued **5-15-85** Revised (•) \_\_\_\_\_

Engine Description/Carb.  
 Engine Code

|  |  |
|--|--|
| <b>2.2L (135.0 in<sup>3</sup>)</b><br><b>EFI</b><br><b>EDF</b> | <b>2.2L (135.0 in<sup>3</sup>)</b><br><b>Turbo EFI</b><br><b>EDG</b> |
|--|--|

**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.)      | standard |
| Manual overdrive (std., opt., n.a.) (mfr.)    | N.A.     |
| Automatic (std., opt., n.a.) (mfr.)           | optional |
| Automatic overdrive (std., opt., n.a.) (mfr.) | N.A.     |

**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.))   | 2.15 (4.55)                                  |
|                                     | Type recommended     | Mopar Dexron II automatic transmission fluid |
|                                     | SAE viscosity number | Summer                                       |
|                                     |                      | Winter                                       |
|                                     |                      | Extreme cold                                 |

**Clutch (Manual Transmission)**

|   |  |   |                             |                                 |
|---|--|---|-----------------------------|---------------------------------|
| Make, type, engagement (describe) - (hydraulic, cable, rod) |  | Luk, dry disc cable   | Aisen Seiki, dry disc cable | Fichtel & Sachs, dry disc cable |
| Assist (yes, no/percent)                                    |  | no  |                             |                                 |
| Type pressure plate springs                                 |  | belleville  |                             |                                 |
| Total spring load (N(lb.))                                  |  | 4400 (989)  | 3880 (872)                  | 5700 (1282)                     |
| No. of clutch driven discs                                  |  | one   |                             |                                 |
| Clutch facing   | Material   | woven asbestos  |                             |                                 |
|   | Manufacturer   | Textar  |                             |                                 |
|   | Part Number  | A302295201  | 31501-99838                 | 181861877001                    |
|   | Rivets/Plate   | 16  |                             |                                 |
|   | Rivet Size   | 9.50 (0.374)  | 8.00 (0.315)                | 10 (0.39)                       |
|   | Outside & inside diameter                            | 215 x 154 (8.46 x 6.06)                                     | 215 x 140 (8.46 x 5.51)     | 228 x 150 (8.98 x 5.91)         |
|   | Total eff. area (cm <sup>2</sup> (in <sup>2</sup> )) | 353.6 (54.8)  | 418.2 (64.8)                | 438.0 (67.9)                    |
|   | Thickness  | 3.45 (0.136)  | 3.5 (0.138)                 | 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 fiber friction washers                     |                             |                                 |

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

Car Line **DODGE LANCER**

Model Year **1986** Issued **6 - 15 - 85** Revised (•) \_\_\_\_\_

Engine Description/Carb.  
 Engine Code

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

**Transmissions/Transaxle**

|   |               |
|---|---------------|
| Manual 3-speed (std., opt., n.a.) (mfr.)      | not available |
| Manual 4-speed (std., opt., n.a.) (mfr.)      | not available |
| Manual 5-speed (std., opt., n.a.) (mfr.)      | standard      |
| Manual overdrive (std., opt., n.a.) (mfr.)    | not available |
| Automatic (std., opt., n.a.) (mfr.)           | optional      |
| Automatic overdrive (std., opt., n.a.) (mfr.) | not available |

**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.)]    | 2.15 (4.55)                                  |
|                                     | Type recommended     | Mopar Dexron II automatic transmission fluid |
|                                     | SAE viscosity number | Summer                                       |
|                                     |                      | Winter                                       |
|                                     |                      | Extreme cold                                 |

**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.)]                                  |  | 4300 (966)  |
| No. of clutch driven discs                                  |  | one   |
| Clutch facing   | Material   | woven asbestos  |
|   | Manufacturer   | Textar  |
|   | Part Number  | 102-11798 (Borg And Beck)                                   |
|   | Rivets/Plate   | 32  |
|   | Rivet Size   | 9 (0.354)   |
|   | Outside & inside diameter                            | 232 x 155 (9.13 x 6.10)                                     |
|   | Total eff. area [cm <sup>2</sup> (in <sup>2</sup> )] | 463.5 (71.86)   |
|   | 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 fiber friction washers                     |

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Car Line **DODGE LANCER**

Model Year **1986** Issued **6-15-85** Revised (•) \_\_\_\_\_

Engine Description/Carb.  
 Engine Code

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

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

**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)   |
| Max. kickdown speed - drive range [km/h (mph)]               |                               | 105 (65)  | 119 (74)   |
| 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              | Dexron II Automatic Transmission Fluid  |            |
| Oil cooler (std., opt., NA, internal, external, air, liquid) |                               | Water Cooled  | Air Cooled |

**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)         |                      | -  |   |
| Pinion/differential bearing adjustment (shim, other) |                      | Shim                                       |   |
| Driving wheel bearing (type)                         |                      | Double Row Ball or Double Row Taper Roller |   |
| Lubricant  | Capacity [L (pt.)]   | -  |   |
|  | Type recommended     | -  |   |
|  | SAE viscosity number | Summer                                     | - |
|  |                      | Winter                                     | - |
|  |                      | Extreme cold                               | - |

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

|  |                     |               |               |
|--|---------------------|---------------|---------------|
| Axle ratio (or overall top gear ratio) |                     | 2.57          | 3.02          |
| No. of teeth                           | Pinion              | 16            | 21            |
|  | Ring gear or gear   | 57            | 60            |
| Ring gear o.d.                         |                     | 198.05 (7.97) | 184.53 (7.26) |
| Transaxle                              | Transfer gear ratio | -             | 1.06          |
|  | Final drive ratio   | 3.56          | 2.86          |

(a) Torque Converter, Transmission, and Differential

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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**

**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                           | -                                  |                                    |
|   |                              | Right                          | -                                  |                                    |
|   | Automatic transmission       | Left                           | GKN-EUR: 22.86x365.4(0.9x14.39)(a) | Citroen: 22.86x363(0.90x14.29) (c) |
|   |                              | Right                          | (b)                                | Same as above                      |
|   | Optional transmission        | Left                           | -                                  |                                    |
|   |                              | Right                          | -                                  |                                    |
| Slip Yoke   | Type                         |                                | -                                  |                                    |
|   | Number of teeth              |                                | -                                  |                                    |
|   | Spline o.d.                  |                                | -                                  |                                    |
| Universal joints                                    | Make and mfg. no.            | Inner                          | (d)                                | GKN-EUR: GI72 or Citroen           |
|   |                              | Outer                          | (e)                                | GKN EUR: 95 AC or Citroen          |
|   | Number useds                 |                                | 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: 24.2x364.1 (0.95x14.33) or Citroen: 22.86x363 (0.90x14.29) or SSG: 23.81x358.0 (0.937x14.095)

(b) GKN-EUR: 40.5x600.8x2.7 (1.59x23.65x1.0) GKN-US: 40.5x603.3x3.72 (1.59x23.75x0.146) or

Citroen: 40x598.3x3.2 (1.57x23.56x0.126) or SSG: 38.0x59.1x5.0 (1.496x23.272x0.197)

(c) or GKN-Eur: 22.86x362.3(0.90x14.26)

(d) GKN-EUR: GI69 or Citroen/GKN-USC-2000 or SSG #19

(e) GKN-EUR: 92 AC or Citroen/GKN-USC-2000 or SSG #23

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Car Line DODGE LANCER

Model Year 1986 Issued 6-15-85 Revised (•) \_\_\_\_\_

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                           | -  |
|   |                              | Right                          | -  |
|   | Automatic transmission       | Left                           | Citroen: 22.86x363(0.90x14.29) or GKN-Eur: 22.86x362.3(0.90x14.26) |
|   |                              | Right                          | GKN-EUR: 40.5x600.8x2.7 (1.59x23.65x0.106) (a)                     |
|   | 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   |
|   |                              | Outer                          | GKN EUR: 95 AC or Citroen  |
|   | 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) or Citroen 40x593.8x3.2 (1.57x23.56x0.126)



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Body Type And/Or  
 Engine Displacement

|                |                 |
|----------------|-----------------|
| 44             |                 |
| Standard (SDA) | 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 and Strut   |                   |
| Provision for accel. 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  |                   |
|                                    | Make                   | Front: Sachs 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 |  | -                                  |              |
| Travel                         | Full jounce  | 76.5 (3.0)                         | 70.8 (2.8)   |
|                                | Full rebound                                       | 99.0 (3.9)                         | 104.7 (4.12) |
| Spring                         | Type (coil, leaf, other) & mat'l.                  | coil, AISI 5160H Chromium Steel    |              |
|                                | Insulators (type & material)                       | Compression: Rubber                |              |
|                                | Size (coil design height & i.d. bar length x dia.) | 229 x 152 I.D. (9.00 x 6.00 I.D.)  |              |
|                                | Spring rate [N/mm (lb./in.)]                       | 14.9 (85)                          | 21.0 (120)   |
|                                | Rate at wheel [N/mm (lb./in.)]                     | 18.4 (105)                         | 24.5 (140)   |
| Stabilizer                     | Type (link, linkless, frameless)                   | Linkless                           |              |
|                                | Material & bar diameter                            | AISI 1090 Spring Steel 27.0 (1.06) |              |

**Suspension - Rear**

|                                |   |                                       |           |
|--------------------------------|---|---------------------------------------|-----------|
| Type and description           |   | Trailing Flex Arm with Track Bar      |           |
| Drive and torque taken through |   | Arm                                   |           |
| Travel                         | Full jounce*  | 124 (4.9)                             | 110 (4.3) |
|                                | Full rebound  | 69 (2.7)                              | 76 (3.0)  |
| 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)  |
|                                | Rate at wheel [N/mm (lb./in.)]                                      | 17.8 (102)                            | 22 (126)  |
|                                | Insulators (type & material)  | Compression: Rubber                   |           |
|                                | If leaf   | -                                     |           |
| Stabilizer                     | Type (link, linkless, frameless)                                    | Frameless ERW Tube                    |           |
|                                | Material & bar diameter   | 80KSI HSLA Steel 28.6 (1.13) O.D.     |           |
| Track bar (type)               |   | Channel type                          |           |

\*from curb

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**Passenger Car**  
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Car Line **DODGE LANCER**

Model Year **1986** Issued **6-15-85** Revised (●)

Body Type And/Or  
 Engine Displacement

ALL

**Brakes - Service**

| Description  |   |                                 | four-wheel hydraulic actuated system  |  |
|--|---|---------------------------------|---------------------------------------|--|
| Brake type<br>(std., opt., n.a.)                                     |   | Front (disc or drum)            | disc                                  |  |
|  |   | Rear (disc or drum)             | drum                                  |  |
| Self-adjusting (std., opt., n.a.)                                    |   |                                 | standard                              |  |
| Special<br>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. <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)          |   |                                 | 410.64 (63.65)                        |  |
| Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]** (F/R)      |   |                                 | 438.98 (68.04)                        |  |
| Swept area[cm <sup>2</sup> (in. <sup>2</sup> )]*** (F/R)             |   |                                 | 1632.57 (253.05)                      |  |
| Rotor  | Outer working diameter                    | F/R                             | front: 254.8 (10.03)                  |  |
|  | Inner working diameter                    | F/R                             | front: 160.8 (6.33)                   |  |
|  | 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: 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   |   |                                 | no major adjustments                  |  |
| Brake Lining   | Front wheel<br>(a)                        | Bonded or riveted (rivets/seg.) |                                       | riveted, 6/shoe                            |
|  |   | Rivet size                      |                                       | 3.57 (0.14) dia. x 7.57 (0.3)              |
|  |   | Manufacturer                    |                                       | Bendix                                     |
|  |   | Lining code *****               |                                       | BX-JD-EE                                   |
|  |   | Material                        |                                       | molded metallic                            |
|  |   | ****                            | Primary or out-board                  | 4764 x 11.34 (7.38 x 0.446)                |
|  |   | Size                            | Secondary or in-board                 | 4280 x 12.34 (6.36 x 0.486)                |
|  |   | Shoe thickness (no lining)      |                                       | outer: 4.83 (0.190); inner: 5.68 (0.224)   |
|  | 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

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

Car Line **DODGE LANCER**

Model Year **1986**

Issued **6-15-85**

Revised (●) \_\_\_\_\_

Body Type And/Or  
 Displacement

|               |                  |
|---------------|------------------|
| <b>Lancer</b> | <b>Lancer ES</b> |
|---------------|------------------|

**Tires and Wheels (Standard)**

|        |   |                     |  |  |
|--------|---|---------------------|--|--|
| Tires  | Size (load range)   |                     | P185/70 R 14, SL   | P195/70 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  | 843  |
| 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)   |  |
|        |   | Number & size       | 5-M 12 x 1.5mm   |  |
| Spare  | Tire and wheel (same, if other describe)                    |                     | T115/70 D14 Compact Spare<br>14 x 4.0 T Steel Disc Wheel | T125/70 D14 Compact Spare<br>14 x 4.0 T Steel Disc Wheel |
|        | Storage position & location (describe)                      |                     | Horizontal - Rear Floor Pan Under Cargo Area             |  |

**Tires and Wheels (Optional)**

|  |  |   |                      |
|--|--|---|----------------------|
| Size (load range)  |  | P195/70 R 14, SL                                      | P205/60 HR 15, SL    |
| Type (bias, radial, etc.)  |  | Steel Radial  |                      |
| Wheel (type & material)  |  | Cast Aluminum   |                      |
| Rim (size, flange type and offset)   |  | 14 x 5.5 JJ 40 (1.6)                                  | 15 x 6.0 JJ 40 (1.6) |
| Size (load range)  |  | P205/60 HR 15, SL                                     |                      |
| Type (bias, radial, etc.)  |  | Steel Radial  |                      |
| Wheel (type & material)  |  | Cast Aluminum   |                      |
| Rim (size, flange type and offset)   |  | 15 x 6.0 JJ 40 (1.6)                                  |                      |
| Size (load range, ply)   |  |   |                      |
| Type (bias, radial, etc.)  |  |   |                      |
| Wheel (type & material)  |  |   |                      |
| Rim (size, flange type and offset)   |  |   |                      |
| Size (load range, ply)   |  |   |                      |
| Type (bias, radial, etc.)  |  |   |                      |
| Wheel (type & material)  |  |   |                      |
| Rim (size, flange type and offset)   |  |   |                      |
| Spare tire and wheel<br><br>(if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position) |  | Matching Spare Available with P185/70 R 14 Tires Only |                      |

**Brakes - Parking**

|                                 |  |   |
|---------------------------------|--|---|
| Type of control                 |  | Foot Operated Pedal, Hand Release Lever |
| Location of control             |  | Upper 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

**185 and 195 Width Tires**

**205 Width Tires**

**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.) | 11.8 (38.7)  | 13.7 (44.9) |  |
|  |   | Curb to curb (l. & r.) | 11.0 (36.2)  | 13.1 (42.9) |  |
|  | Inside rear                               | Wall to wall (l. & r.) | 6.3 (20.6)   | 8.6 (28.1)  |  |
|  |   | Curb to curb (l. & r.) | 6.4 (20.9)   | 8.7 (28.4)  |  |
| Scrub Radius*                                  |   |                        | -10 (-0.4)   |             |  |
| Manual   | Gear                                      | Type                   |  |             |  |
|  |   | Make                   |  |             |  |
|  |   | Ratios                 | Gear   |             |  |
|  | Overall                                   |                        |  |             |  |
|  | No. wheel turns (stop to stop)            |                        |  |             |  |
| Power  | Type (coaxial, linkage, etc.)             |                        | integral power unit                                      |             |  |
|  | Make                                      |                        | Saginaw  |             |  |
|  | Gear                                      | Type                   | rack and pinion with integral power unit                 |             |  |
|  |   | Ratios                 | Gear   | --          |  |
|  |   | Overall                | 14.2:1   |             |  |
|  | Pump (drive)                              |                        | pulley and belt, off crankshaft                          |             |  |
|  | No. wheel turns (stop to stop)            |                        | 2.5  | 2.05        |  |
| 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 joint   |             |  |
| 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 (outside track-mm (in.)) | 5.6 (0.218) Toe-in to 3.2 (0.125) 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.)) | 7.6 (0.3) Toe-out to 7.6 (0.3) Toe-in     |
|                                | 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**

**Electronic Cluster**

|                           |  |                                      |                              |
|---------------------------|--|--------------------------------------|------------------------------|
| Speedometer               | Type   | Magnetic torque drive                | Vacuum fluorescent display   |
|                           | Trip odometer (std., opt., n.a.)                 | Standard                             | Vacuum fluorescent display   |
| EGR maintenance indicator |  | -                                    | -                            |
| Charge indicator          | Type   | Magnetic gage                        | Vacuum fluorescent Voltmeter |
|                           | Warning device                                   | -                                    | -                            |
| Temp. Indicator           | Type   | Magnetic gage                        | Vacuum fluorescent gage      |
|                           | Warning device                                   | Light (check gage)*                  | Light (engine)*              |
| Oil pressure indicator    | Type   | Magnetic gage                        | Vacuum fluorescent gage      |
|                           | Warning device                                   | Light (check gage)*                  | Light (engine)*              |
| Fuel indicator            | Type   | Magnetic gage                        | Vacuum fluorescent gage      |
|                           | Warning device                                   | Light (low fuel)                     | -                            |
| 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   | Four-inch seashell                   |                              |
|                           | Number used                                      | Two, standard                        |                              |
| Other                     |  |                                      |                              |

\*Indicates high coolant temperature or low oil pressure

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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.)      | GRP 26 (GRP 34)               | GRP 34    | GRP 26 (GRP 34) |
|                         | Voltage                  | 12V                           |           |                 |
|                         | Amps at 0°F cold crank   | 335 (500) (c)                 | 400 (500) | 335 (500)       |
|                         | Minutes-reserve capacity | 62 (10)                       | 100 (62)  | 62 (10)         |
|                         | Amp/hr. - 20 hr. rate    | -                             |           |                 |
|                         | Location                 | Left front fender side shield |           |                 |
| Generator or alternator | Type and rating          | 90 Amp                        |           |                 |
|                         | Ratio (alt. crank/rev.)  | 2.4:1                         |           | 2.52:1          |
|                         | Optional (type & rating) | -                             |           |                 |
| Regulator               | Type                     | Electronic                    |           |                 |

**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.)   |                    | Standard          |         |         |
|             | Other (specify)                 |                    | (a)               | (b)     |         |
| Coil        | Make                            |                    | UTC or Prestolite |         |         |
|             | Model                           |                    | 5226865 5226866   |         |         |
|             | 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)] |                    | (20)              |         |         |
|             | Gap                             |                    | (0.035in.)        |         |         |
|             | Number per cylinder             |                    | one               |         |         |
| Distributor | Make                            |                    | Chrysler          |         |         |
|             | Model                           |                    | 5226575           | 5226525 | 5226575 |

**Electrical - Suppression**

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

- (a) Electronic fuel injection - Engine control electronics  
 (b) Electronic fuel injection turbo-charged - Engine control electronics  
 (c) 400 (100 min.) Standard w/heated backlite

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Revised (●)

Body Type

44

**Body**

|                               |   |
|-------------------------------|---|
| Structure                     |   |
| Bumper system<br>front - rear | Front - Urethane Fascia 4.3 kg(9.5 lb)<br>High-Strength Steel 7.8 kg(17.25 lb)<br><br>Rear - Urethane Fascia 4.7 kg(10.31 lb)<br>High-Strength Steel 6.0 kg(13.25 lb) |
| Anti-corrosion treatment      | Extensive use of galvanized steel.  |

**Body - Miscellaneous Information**

|   |   |                         |
|---|---|-------------------------|
| Type of finish (lacquer, enamel, oth-r)                             | Buffable Acrylic Enamel                       |                         |
| Hood  | Hinge location (front, rear)                  | Rear                    |
|   | Type (counterbalance, prop)                   | Counterbalance          |
|   | 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.) | Remote Cable            |
|   |   |                         |
|   |   |                         |
| Vent window control (crank, friction, pivot, power)                 | Front   | None                    |
|   | Rear  | None                    |
| Seat cushion type<br>(e.g., 60/40, bucket, bench, wire, foam, etc.) | Front   | Bucket Flex-O-Lator Mat |
|   | Rear  | Full Foam               |
|   | 3rd seat                                      | -                       |
| Seat back type<br>(e.g., 60/40, bucket, bench, wire, foam, etc.)    | Front   | Bucket Flex-O-Lator Mat |
|   | Rear  | Full Foam               |
|   | 3rd seat                                      | -                       |
|   |   |                         |

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Body Type

44

**Restraint System**

|                         |                      |  |
|-------------------------|----------------------|--|
| Active restraint system | Standard/optional    | Standard   |
|                         | Type and description | Front: lap and shoulder belt<br>Rear: Lap belt                 |
|                         | Location             | Front: Two Rear: Three<br>W/optional center seat, Front: 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                  | 6763 (1048)               |
| Side glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]            | S2                  | 10670 (1654)              |
| Backlight glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]       | S3                  | 8052 (1248)               |
| Total glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]           | S4                  | 25485 (3950)              |
| Windshield glass (type)   |                     | Laminated safety glass    |
| Side glass (type)   |                     | Heat treated safety glass |
| Backlight glass (type)  |                     | Heat treated safety glass |



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Body Type

**44**

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

|  |  |  |  |
|--|--|--|--|
| Air conditioning (manual, auto, temp. control) |  | Manual- Opt.   |  |
| Clock (digital, analog)                        |  | Digital - Std. w/Radio   |  |
| Compass/thermometer                            |  | N.A.   |  |
| Console (floor, overhead)                      |  | Floor - Std. Armrest - Std. Sport Opt. - High  |  |
| Defroster, elec. backlight                     |  | EBL - Opt.   |  |
| Electronic                                     | Diagnostic warning (integrated, individual)  | N.A.   |  |
|  | Instrument cluster (list instruments)  | Std. N.A. High See Page 15   |  |
|  | Keyless entry  | N.A.   |  |
|  | Tripfinder (avg. spd., fuel)   | Std. w/ Electronic Navigator   |  |
|  | Voice alert (list items)   | Opt. N.A. High*  |  |
|  | Other Navigator  | Opt. N.A. High*  |  |
|  | Graphic Message Center   | Std.*  |  |
| Fuel door lock (remote, key, electric)         |  | N.A.   |  |
| Lamps  | Auto head on / off delay, dimming  | N.A.   |  |
|  | Cornering  | N.A.   |  |
|  | Courtesy (map, reading)  | Std. - Premium Opt. - High   |  |
|  | Door lock, ignition  | Door Lock - Opt. Sport Ignition - Std. Sport Opt. - High   |  |
|  | Engine compartment   | Std. - Sport Opt. - High   |  |
|  | Fog  | N.A.   |  |
|  | Glove compartment  | Std.   |  |
|  | Trunk (Cargo)  | Std.   |  |
|  | Other (Dome)   | Std.   |  |
|  | Shift Indicator  | Std. N.A. w/Automatic  |  |
| Mirrors  | Day/night (auto. man.)   | Manual - Std.  |  |
|  | L.H. (remote, power, heated)   | Remote - Std. Power - Opt.   |  |
|  | R.H. (convex, remote, power, heated)   | Remote - Std. Power - Opt.   |  |
|  | Visor vanity (RH / LH, illuminated)  | RH - Std. RH Illuminated - Opt.  |  |
| Parking brake-auto release (warning light)     |  | Std.   |  |
| 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) reclining (driver, pass) memory (1-2 preset, recline) | Manual Lumbar, Thigh Support - Std. - Sport N.A. High  |  |
|  | Side windows   | Opt.   |  |
|  | Vent windows   | N.A.   |  |
|  | Rear window  | N.A.   |  |
|  |  |  |  |
| Radio systems                                  | Antenna (location, whip, w/shield, power)  | Whip - Std. Right Front Fender   |  |
|  | AM, FM, stereo, tape, CB   | (b) - Std.* (c) (d) - Opt.*  |  |
|  | Speaker (number, location) Premium sound   | N.A.   |  |
| Roof open air/ fixed (flip-up, sliding, "T")   |  | Flip-up Sun Roof - Opt.  |  |
| Speed control device                           |  | Opt.   |  |
| Speed warning device (light, buzzer, etc.)     |  | N.A.   |  |
| Tachometer (rpm)                               |  | Std.   |  |
| Theft protection-type                          |  | Cargo Security System - Std. Inside Hood Release - Std. Glove Box Lock - Std. Locking Steering Column - Std. |  |

\*See Page 19A.

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**SUPPLEMENTAL PAGE**

Car Line DODGE LANCER  
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- 
- (a) AM Electronically Tuned Radio
  - (b) AM/FM/MX ETR
  - (c) AM/FM/MX Cassette/ETR
  - (d) AM/FM/MX Cassette/ETR Ultimate Sound System (Includes Premium Speakers)

**Electronic Voice Alert Includes:** Key in Ignition, Headlights on, Fasten Seat Belts, Door Ajar, Low Washer Fluid, Parking Brake on, Low Fuel, Low Oil Pressure, Electrical System Malfunction and All Monitored Systems Functioning.

**Electronic Navigator Includes:** US/MET Conversion, Distance to Empty Fuel Tank, Estimated Time of Arrival, Distance to Destination, Clock/Date, Fuel Consumed, Average Speed, Miles Traveled, Elapsed Driving Time, Instantaneous and Average MPH Readings.

**Graphic Message Center Includes:** Low Fuel, Low Washer Fluid, Door Ajar and Trunk Ajar.

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

### Car and Body Dimensions See Key Sheets for Definitions

Car Line **DODGE LANCER**

Model Year **1986** Issued **6-15-85** Revised (●)

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 Width                  | SAE Ref. No. | 24           |
|----------------------------------|--------------|--------------|
| Tread (front)                    | W101         | 1464 (57.6)  |
| Tread (rear)                     | W102         | 1453 (57.2)  |
| Vehicle width                    | W103         | 1736 (68.3)  |
| Body width at SqRP (front)       | W117         | 1736 (68.3)  |
| Vehicle width (front doors open) | W120         | 3511 (138.2) |
| Vehicle width (rear doors open)  | W121         | 3394 (133.6) |
| Front fender overall width       | W106         | 1707 (67.2)  |
| Rear fender overall width        | W107         | 1729 (68.1)  |
| Tumble-home (deg.)               | W122         | 24°          |

### Length

|                                |      |              |
|--------------------------------|------|--------------|
| Wheelbase                      | L101 | 2618 (103.1) |
| Vehicle length                 | L103 | 4581 (180.4) |
| Overhang (front)               | L104 | 1028 (40.5)  |
| Overhang (rear)                | L105 | 935 (36.8)   |
| Upper structure length         | L123 | 2715 (106.9) |
| Rear wheel C/L "X" coordinate  | L127 | 2706 (106.5) |
| Cowl point "X" coordinate      | L125 | 472 (18.6)   |
| Front end length at centerline | L126 | 1412 (55.6)  |
| Rear end length at centerline  | L129 | 454 (17.9)   |

### Height\*

|                                     |         |                 |
|-------------------------------------|---------|-----------------|
| Passenger distribution (front/rear) | PD1,2,3 | 2-FRONT, 3-REAR |
| Trunk/cargo load                    |         | -               |
| Vehicle height                      | H101    | 1345 (53.0)     |
| Cowl point to ground                | H114    | 934 (36.8)      |
| Deck point to ground                | H138    | 926 (36.5)      |
| Rocker panel-front to ground        | H112    |                 |
| Bottom of door closed-front to grd. | H133    | 250 (9.8)       |
| Rocker panel-rear to ground         | H111    |                 |
| Bottom of door closed-rear to grd.  | H135    | 219 (8.6)       |
| Windshield slope angle              | H122    | 58°             |
| Backlight slope angle               | H121    | 62°             |

### Ground Clearance

|   |      |                               |
|---|------|-------------------------------|
| Front bumper to ground                      | H102 | 268 (10.6)                    |
| Rear bumper to ground                       | H104 | 291 (11.5)                    |
| Bumper to ground [front at curb mass (wt.)] | H103 | 287 (11.3)                    |
| Bumper to ground [rear at curb mass (wt.)]  | H105 | 369 (14.5)                    |
| Angle of approach (degrees)                 | H106 | 17°                           |
| Angle of departure (degree)                 | H107 | 17°                           |
| Ramp breakover angle (degrees)              | H147 | 11°                           |
| Axle differential to ground (front/rear)    | H153 | N.A.                          |
| Min. running ground clearance               | H156 | 121 (4.8)                     |
| Location of min. run. grd. clear.           |      | FRT. SUSP. C'MBR L. H. BRKT.. |

\*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.

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

Car Line **DODGE LANCER**  
 Model Year **1986** Issued **6-15-85** Revised (•) \_\_\_\_\_

See Key Sheets for Definitions

Body Type

SAE  
Ref.  
No.

**44**  
**Low Back Bucket**

**Front Compartment**

|  |     |                    |
|--|-----|--------------------|
| SgRP front, "X" coordinate               | L31 | 1405 (55.3)        |
| Effective head room                      | H61 | 972 (38.3)         |
| Max. eff. leg room (accelerator)         | L34 | 1044 (41.1)        |
| SgRP to heel point                       | H30 | 264 (10.4)         |
| SgRP to heel point                       | L53 | 828 (32.5)         |
| Back angle                               | L40 | 24°                |
| Hip angle                                | L42 | 94°                |
| Knee angle                               | L44 | 119°               |
| 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  | 1418 (55.8)        |
| Hip room                                 | W5  | 1310 (51.6)        |
| Upper body opening to ground             | H50 | 1081 to "0" (42.6) |
| Steering wheel maximum diameter          | W9  | 381 (15.0)         |
| Steering wheel angle                     | H18 | 26°                |
| Accel. heel pt. to steer. whl. cntr.     | L11 | 475 (18.7)         |
| Accel. heel pt. to steer. whl. cntr.     | H17 | 641 (25.2)         |
| Steering wheel to C/L of thigh           | H13 | 88 (3.5)           |
| Steering wheel torso clearance           | L7  | 336 (13.2)         |
| Headlining to roof panel (front)         | H37 | 17 (0.7)           |
| Undepressed floor covering thickness     | H67 | 23 (0.9)           |

**Rear Compartment**

|                                    |     |             |
|------------------------------------|-----|-------------|
| SgRP Point couple distance         | L50 | 816 (32.1)  |
| Effective head room                | H63 | 963 (37.9)  |
| Min. effective leg room            | L51 | 927 (36.5)  |
| SgRP (second to heel)              | H31 | 268 (10.6)  |
| Knee clearance                     | L48 | 44 (1.7)    |
| Compartment room                   | L3  | 686 (27.0)  |
| Shoulder room                      | W4  | 1420 (55.9) |
| Hip room                           | W6  | 1318 (51.9) |
| Upper body opening to ground       | H51 | 1092 (42.9) |
| Back angle                         | L41 | 25°         |
| Hip angle                          | L43 | 85.5°       |
| Knee angle                         | L45 | 95°         |
| Foot Angle                         | L47 | 125°        |
| Headlining to roof panel (second)  | H38 | 22 (0.9)    |
| Depressed floor covering thickness | H73 | 14 (0.5)    |

**Luggage Compartment**

|                                       |      |                |
|---------------------------------------|------|----------------|
| Usable luggage capacity [L (cu. ft.)] | V1   | 306 (10.8) (a) |
| Liftover height                       | H195 | 663 (26.1)     |

**Interior Volumes (EPA Classification)**

|   |  |               |
|---|--|---------------|
| Vehicle class (subcompact, compact, etc.) |  | Mid-size      |
| Interior volume index (cu. ft.)           |  | 116.0 cu. ft. |
| Trunk/cargo index (cu. ft.)               |  | 518 (18.3)    |

(a) with shelf panel

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**Car and Body Dimensions**

Car Line **DODGE LANCER**

Model Year **1986** Issued **6-15-85** Revised (●) \_\_\_\_\_

See Key Sheets for Definitions

Body Type

SAE  
Ref.  
No.

44

**Station Wagon - Third Seat**

|                       |     |  |
|-----------------------|-----|--|
| SqRP couple distance  | L85 |  |
| Shoulder room         | W85 |  |
| Hip room              | W86 |  |
| Effective leg room    | L86 |  |
| Effective head room   | H86 |  |
| SqRP 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 | 1026 (40.4)  |
| Cargo length at floor (front)                            | L209 | 1584 (62.4)  |
| Cargo length at second seatback height                   | L210 |              |
| Cargo length at floor (second)                           | L211 |              |
| Front seatback to load floor height                      | H197 | 527 (20.7)   |
| Second seatback to load floor height                     | H198 |              |
| Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]  | V3   | 0.935 (33.0) |
| Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )] | V4   | -            |
| Cargo volume index-rear of 2-seat                        | V11  | -            |

**Aerodynamics\***

|  |  |                  |
|--|--|------------------|
| Wheel lip to ground, front                           |  | 654 (25.7)       |
| Wheel lip to ground, rear                            |  | 650 (25.6)       |
| Frontal area [m <sup>2</sup> (ft. <sup>2</sup> )](a) |  | 1.92 (20.65) (a) |
| Drag coefficient (Cd)                                |  | N.A.             |

\* Describe measurement method (a) All tires, two mirrors and antenna

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

Car Line DODGE LANCER  
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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 3211 mm (126.4 in) from the centerline of front wheels. |
|                       |      |  |
| 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  | 3300 ( 129.9 )   |
|                       | 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).

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Car Line **DODGE LANCER**

Model Year **1986**

Issued **6 - 15 - 85**

Revised (●) \_\_\_\_\_

Body Type

ALL

**Lamps and Headlamp Shape\***

|   |                       |           |                |
|---|-----------------------|-----------|----------------|
| Height above ground to center of bulb or marker | Headlamp (SAE - H127) | Highest** | 657.3 (25.9)   |
|   |                       | Lowest    | not applicable |
|   | Taillamp (SAE - H128) | Highest** | 721.4 (28.4)   |
|   |                       | Lowest    | not applicable |
|   | Sidemarker            | Front     | 496.0 (19.5)   |
|   |                       | Rear      | 721.4 (28.4)   |
| Height above ground to center of bulb or marker | Headlamp              | Inside    | 447.5 (17.6)   |
|   |                       | Outside** | 623.5 (24.5)   |
|   | Taillamp              | Inside    | not applicable |
|   |                       | Outside** | 619.1 (24.4)   |
|   | Directional           | Front     | 589.5 (23.2)   |
|   |                       | Rear      | 619.1 (24.2)   |
|   |                       |           |                |
| Halogen headlamp (std., opt., n.a.)             | Lo beam               |           | standard       |
|   | Hi beam               |           | standard       |
|   | Replaceable bulb      |           | not available  |
|   | Shape                 |           | rectangular    |
| Headlamp other than above                       | Lo beam               |           | --             |
|   | Hi beam               |           | --             |
|   | Replaceable           |           | --             |
|   | Shape                 |           | --             |
|   | Type                  |           | --             |

\*Measured at curb mass (weight).

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

Car Line DODGE LANCER  
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**\*\*Shipping mass (weight) definition -**



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Car Line **DODGE LANCER**

Issued 6-15-85 Revised (●)

Issued 6-15-85 Revised (●)

[illegible]

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

### Exterior Car And Body Dimensions – Key Sheet

W101

W103

W106

SgRP

W117

W120

W116

W121

W102

W107

W122

SECTION A-A

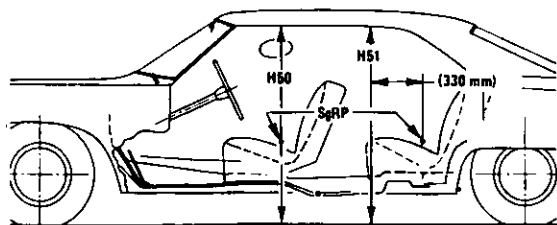
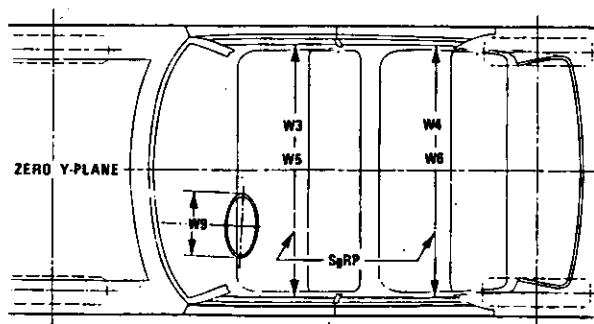
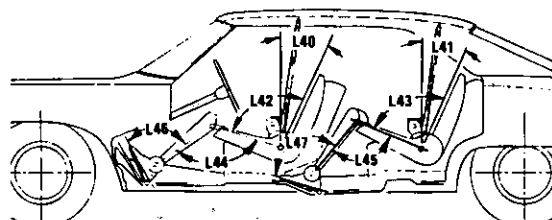
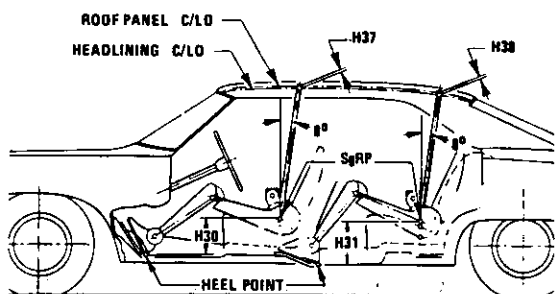
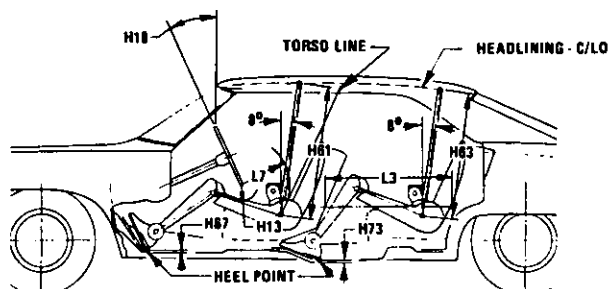
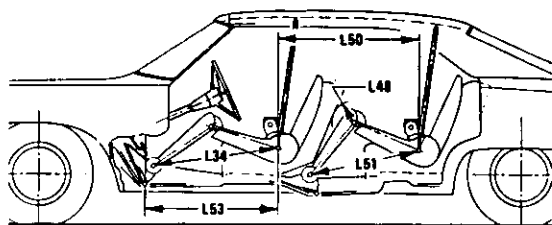
Side view of a car with dimension lines and labels L101 through L129 and H101 through H138.

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

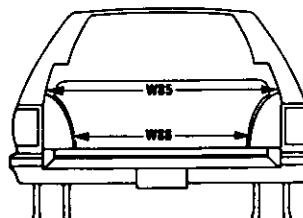
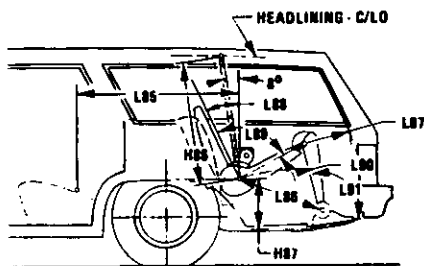
#### Interior Car And Body Dimensions – Key Sheet



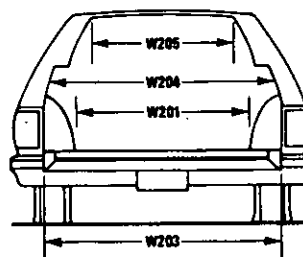
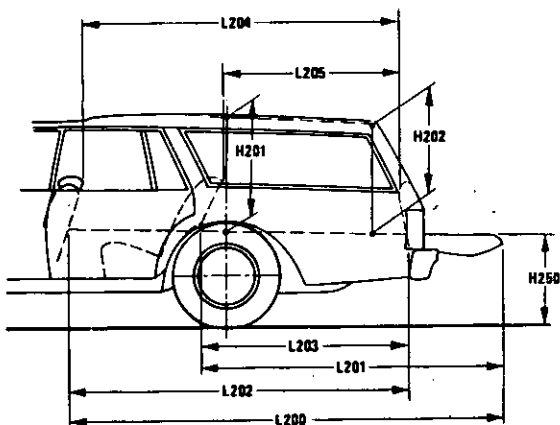
**MVMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

**Interior Car And Body Dimensions – Key Sheet**

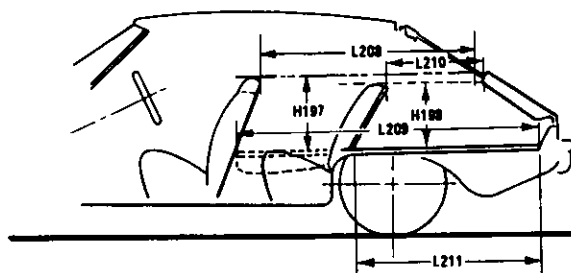
**Third Seat**



**Cargo Space**



**Station Wagon**



**Hatchback**

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

#### Exterior Car And Body Dimensions – Key Sheet

##### Dimensions Definitions

##### Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which –

- (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- (b) Has coordinates established relative to the design vehicle structure;
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations."

##### Width Dimensions

- W101 TREAD-FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD-REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- W117 BODY WIDTH AT SgRP-FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH-FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH-REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE-HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.  
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

##### Length Dimensions

- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHANG-FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L105 OVERHANG-REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of

dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L125 COWL POINT "X" COORDINATE.
- L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost point of front end contour.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.
- L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

##### Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H111 ROCKER PANEL-REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H112 ROCKER PANEL-FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in) long drawn from the lower DLO to the intersecting point on the windshield.
- H127 HEADLAMP TO GROUND-CURB MASS (WT.). The dimension measured vertically from the centerline of the lowest headlamp lens to ground.
- H128 TAILLAMP TO GROUND-CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.
- H133 BOTTOM OF DOOR CLOSED-FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H135 BOTTOM OF DOOR CLOSED-REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.

##### Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND-CURB MASS (WT.). Measured in the same manner as H102.

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

#### Interior Car And Body Dimensions – Key Sheet

##### Dimensions Definitions

- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

#### Glass Areas

- S1 Windshield area.
- S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3 Backlight areas.
- S4 Total area. Total of all areas (S1 + S2 + S3).

#### Fiducial Mark Dimensions

##### Fiducial Mark – Number 1

- L54 "X" coordinate.
- W21 "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at curb weight.
- H163 Height "Z" coordinate to ground.

##### Fiducial Mark – Number 2

- L55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- H162 Height "Z" coordinate to ground at curb weight.
- H164 Height "Z" coordinate to ground.

#### Front Compartment Dimensions

- L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT–FRONT TRAVEL. The dimension measured horizontally between the design H-point–front in the foremost and rearmost seat track positions.
- L23 NORMAL DRIVING AND RIDING SEAT TRACK LEVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions.
- L31 SgRP–FRONT. "X" COORDINATED.

- L34 MAXIMUM EFFECTIVE LEG ROOM–ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP–front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L40 BACK ANGLE–FRONT. The angle measured between a vertical line through the SgRP–front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L42 HIP ANGLE–FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE–FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE–FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
- L53 SgRP–FRONT TO HEEL. The dimension measured horizontally from the SgRP–front to the accelerator heel point.
- W3 SHOULDER ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front at height between the belt line and 254 mm (10.0 in.) above the SgRP–front, excluding the door assist strap and attaching parts.
- W5 HIP ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP–front and 76 mm (3.0 in.) fore and aft of the SgRP–front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
- H17 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP–front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP–FRONT TO HEEL. The dimension measured vertically from the SgRP–front to the accelerator heel point.
- H37 HEADLINING TO ROOF PANEL–FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
- H50 UPPER BODY OPENING TO GROUND–FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP–front "X" plane.
- H61 EFFECTIVE HEAD ROOM–FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP–front to the headlining plus 102 mm (4.0 in.).
- H67 FLOOR COVERING THICKNESS–UNDEPRESSED–FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.
- PD1 PASSENGER DISTRIBUTION–FRONT.

#### Rear Compartment Dimensions

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

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

#### Interior Car And Body Dimensions – Key Sheet

##### Dimensions Definitions

- L41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP – second and the torso line.
- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254mm (10.0 in.).
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND. Measured in the same manner as W5.
- H31 SgRP-SECOND TO HEEL. The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51 UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in) forward of the SgRP-second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in).
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.
- PD2 PASSENGER DISTRIBUTION-SECOND.

#### Luggage Compartment Dimensions

- V1 USABLE LUGGAGE CAPACITY-Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

#### Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The interior volume index estimates the space in a car. It is based on four measurements – head room, shoulder room, hip room, and leg room – for the front and rear seats, plus trunk capacity. The interior volume index is an estimate of the size of the passenger compartment.

The Trunk/Cargo Index is an estimate of the size of the trunk/cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat.

#### Station Wagon – Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second to the SgRP-third.
- L86 EFFECTIVE LEG ROOM-THIRD. The dimension measured along a line from the ankle pivot center to the SgRP-third plus 254 mm (10.0 in).
- L87 KNEE CLEARANCE-THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51mm (2.0 in). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE-THIRD. Measured in the same manner as L41.
- L89 HIP ANGLE-THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE-THIRD. Measured in the same manner as L45.
- L91 FOOT ANGLE-THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM-THIRD. Measured in the same manner as W4.
- W86 HIP ROOM-THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM-THIRD. The dimension, measured along a line 8 deg. rear from the SgRP-third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- PD3 PASSENGER DISTRIBUTION-THIRD.
- SD1 SEAT FACING DIRECTION-THIRD.

#### Station Wagon – Cargo Space Dimensions

- L200 CARGO LENGTH-OPEN-FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH-OPEN-SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L202 CARGO LENGTH-CLOSED-FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH-CLOSED-SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT-FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH-WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhoussings at floor level. For any vehicle not trimmed, measure to the sheet metal.

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

## Interior Car And Body Dimensions – Key Sheet Dimensions Definitions

- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- V2 STATION WAGON  
Measured in inches:  

$$\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$$
 Measured in mm:  

$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V5 TRUCKS AND MPV'S WITH OPEN AREA.  
Measured in inches:  

$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$
 Measured in mm:  

$$\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V6 TRUCKS AND MPV'S WITH CLOSED AREA.  
Measured in inches:  

$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$
 Measured in mm:  

$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V8 HIDDEN LUGGAGE CAPACITY-REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.
- V10 STATION WAGON CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:  
Measured in inches:  

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$$
 Measured in mm:  

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

## Hatchback – Cargo Space Dimensions

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

- L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L209 CARGO LENGTH AT FLOOR-FRONT-HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT-HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.
- L211 CARGO LENGTH AT FLOOR-SECOND HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seat back to the undepressed floor covering.
- V3 HATCHBACK.  
Measured in inches:  

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = \text{ft}^3$$
 Measured in mm:  

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:  
Measured in inches:  

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = \text{ft}^3$$
 Measured in mm:  

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{10^9} = \text{m}^3 \text{ (cubic meter)}$$



# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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