

**Specifications**  
**Form**  
**Passenger Car**  
**1983**  
**METRIC (U.S. Customary)**

|   |   |                          |
|---|---|--------------------------|
| <b>Manufacturer</b><br><br>Mitsubishi Motors Corporation                          | <b>Car Line</b><br><br>Dodge Challenger |                          |
| <b>Mailing Address</b><br><br>CHRYSLER CORPORATION<br><br>DETROIT, MICHIGAN 48288 | <b>Model Year</b><br><br>1983           | <b>Issued:</b><br>3-1-82 |
|   |   | <b>Revised (*)</b>       |

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

# **MVMA Specifications Form**

## **Passenger Car**

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#### **NOTE:**

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

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Dodge Challenger

Car Line \_\_\_\_\_  
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**Car Models**

| Model Description |            | Introduction Date | Make, Car Line, Series, Body Type (Mfr's Model Code) | No. of Designated Seating Positions (Front/Rear) | Max. Truck/Cargo Load—Kilograms (Pounds)  |
|-------------------|------------|-------------------|--|--|---|
| Dodge Challenger  | A165AHNSL2 |                   | 2H23F4   | (2/3)  |   |
|                   | A165AHKSL2 |                   | 2H23F4   | (2/3)  |   |
|                   | A165AHNSL7 |                   | 2H23F4   | (2/3)  |   |
|                   | A165AHKSL7 |                   | 2H23F4   | (2/3)  |   |
|                   | A165AHNSL3 |                   | 2H23F4   | (2/3)  |   |
|                   | A165AHNJL2 |                   | 2H23F4   | (2/3)  |   |
|                   | A165AHKJL2 |                   | 2H23F4   | (2/3)  |   |
|                   | A165AHNJL7 |                   | 2H23F4   | (2/3)  |   |
|                   | A165AHKJL7 |                   | 2H23F4   | (2/3)  |   |
|                   | A165AHNJL3 |                   | 2H23F4   | (2/3)  |   |
|                   | A165AHKJL3 |                   | 2H23F4   | (2/3)  |   |
|                   |            |                   |  |  |   |
|                   |            |                   |  |  | L2: For 49 states<br>L7: For California<br>L3: For Canada<br><br>There is no description for Canada in this spec. |

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

SAE Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

[illegible]

\* S—Single      D—Dual

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Engine Description/Carb.  
 Engine Code

|                     |                        |
|---------------------|------------------------|
| G54B (2.555 Liters) |                        |
| Manual Transmission | Automatic Transmission |

**ENGINE - GENERAL**

| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, etc.) | In line          |              |
|---|------------------|--------------|
|   | Front            | Longitudinal |
| No. of cylinders  | 4                |              |
| Bore  | 91.1             |              |
| Stroke  | 98               |              |
| Bore spacing (c/l to c/l)   | 101              |              |
| Cylinder block material   | Cast iron        |              |
| Cylinder block deck height  | 251              |              |
| Deck clearance (minimum) (above or below block)   | Below 0.6        |              |
| Cylinder head material  | Aluminium alloy  |              |
| Cylinder head volume (cm <sup>3</sup> )   | 75.2             |              |
| Head gasket thickness (compressed)  | 1.25             |              |
| Minimum combustion chamber volume (cm <sup>3</sup> )  | 88.7             |              |
| Cyl. no. system (front to rear)*  | L. Bank          | NA           |
|   | R. Bank          | NA           |
| Firing order  | 1-3-4-2          |              |
| Recommended fuel (leaded, unleaded, diesel)   | Unleaded         |              |
| Fuel antiknock index (R + M)<br>2   | RON 91 (minimum) |              |
| Total dressed engine mass (wt) dry**  | 175              | 166          |

**Engine - Pistons**

|                                     |                 |
|-------------------------------------|-----------------|
| Material                            | Aluminium alloy |
| Mass, g (weight, oz.) - Piston Only | 450 (16)        |

**Engine - Camshaft**

|                               |  |            |
|-------------------------------|--|------------|
| Location                      | Center of IN. and EX. valve on cylinder-head |            |
| Material (kg., weight, lbs.)  | Cast iron                                    |            |
| Mass (kg., weight, lbs.)      | 2.8 (6.2)                                    |            |
| Type of drive (chain or belt) | Width  | Chain 23.3 |
|                               | Pitch  | 9.525      |

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

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

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G54B (2.555 Liters)

**Engine - Valve System**

|                            |           |      |
|----------------------------|-----------|------|
| Lifters (std., opt., n.a.) | Hydraulic | NA   |
|                            | Solid     | Std. |

**Engine - Connecting Rods**

|                                     |                               |
|-------------------------------------|-------------------------------|
| Material & mass (kg., weight, lbs.) | Drop-forged steel 0.830 (1.8) |
|-------------------------------------|-------------------------------|

**Engine - Crankshaft**

|                                   |                   |
|-----------------------------------|-------------------|
| Material (kg., weight, lbs.)      | Drop-forged steel |
| Mass (kg., weight, lbs.)          | 175 (38.6)        |
| End thrust taken by bearing (no.) | 3                 |

**Engine - Lubrication System**

|  |                    |
|--|--------------------|
| Normal oil pressure (kPa (psi) at engine rpm)  | 390 (56.5) at 2000 |
| Type oil intake (floating, stationary)         | Stationary         |
| Oil filter system (full flow, part, other)     | Full flow          |
| Capacity of c/case, less filter-refill-L (qt.) | 3.8 (3.3)          |

**Engine - Diesel Information**

|                                    |                              |
|------------------------------------|------------------------------|
| Glow plug, current drain at 0°F    |                              |
| Injector nozzle                    | Type                         |
|                                    | Opening pressure (kPa (psi)) |
| Pre-chamber design                 |                              |
| Fuel injection pump                | Manufacturer                 |
|                                    | Type                         |
| Supplementary vacuum source (type) |                              |

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G54B (2.555 Litres)

**Engine — Fuel System** (See supplemental page for details of Fuel injection, Supercharger, Turbocharger, etc. if used)

|   |  |                               |   |
|---|--|-------------------------------|---|
| Induction type: carburetor, fuel injection system, etc.               |  | Carburetor                    |   |
| Carburetor  | Mfr.   | Mikuni Co., Ltd. 32-35 DID TA |   |
|   | Choke (type)   | Automatic                     |   |
|   | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual                        | 675 (Up to 300 mile) 750 (After 300 mile) |
|   |  | Automatic                     | 725 (Up to 300 mile) 800 (After 300 mile) |
| Idle A/F mix.   |  |                               |   |
| Fuel injection  | Point of injection (no.)                                   |                               |   |
|   | Constant, pulse, flow                                      |                               |   |
|   | Control (electronic, mech.)                                |                               |   |
|   | System pressure [kPa (psi)]                                |                               |   |
| Intake manifold heat control (exhaust or water) thermostatic or fixed |  | Water<br>Fixed                |   |
| Air cleaner type  | Standard   | Dry, Non-woven cloth          |   |
|   | Optional   | None                          |   |
| Fuel pump   | Type (elec. or mech.)                                      | Mechanical                    |   |
|   | Location (eng., tank)                                      | Engine                        |   |
|   | Pressure range [kPa (psi)]                                 | 19 to 30 (2.8 to 4.3)         |   |

**Fuel Tank**

|                               |                          |   |  |
|-------------------------------|--------------------------|---|--|
| Capacity (refill L (gallons)) |                          | 60 L (15.8 gallons)   |  |
| Location (describe)           |                          | Underneath rear floorpan cargo area between rear axle and rear bump |  |
| Attachment                    |                          | Bolts   |  |
| Material                      |                          | Steel   |  |
| Filler pipe                   | Location & material      | On left side rear quarter panel, steel pipe                         |  |
|                               | Connection to tank       | Welding   |  |
| Fuel line (material)          |                          | Steel pipe  |  |
| Fuel hose (material)          |                          | Rubber nose   |  |
| Return line (material)        |                          | Steel pipe  |  |
| Vapor line (material)         |                          | Steel pipe  |  |
| 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                 |                          | -   |  |

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Engine Description/Carb.  
 Engine Code

G54B (2.555 Liters)

**Engine — Cooling System**

|  |   |  |                           |
|--|---|--|---------------------------|
| Coolant recovery system (std., opt., n.a.)   |   | With condenser tank (Std.)               |                           |
| Coolant fill location (rad., bottle)   |   | Full                                     |                           |
| Radiator cap relief valve pressure [kPa (psii)]                                      |   | 88 (12.8)                                |                           |
| Circulation<br>thermostat  | Type (choke, bypass)                            | Choke pellet                             |                           |
|  | Starts to open at °C (°F)                       | 88 (190.4)                               |                           |
| Water<br>pump  | Type (centrifugal, other)                       | Centrifugal                              |                           |
|  | GPM 1000 pump rpm                               |  |                           |
|  | Number of pumps                                 | 1  |                           |
|  | Drive (V-belt, other)                           | V-belt                                   |                           |
|  | Bearing (type)                                  | Ball, integral shaft, permanently sealed |                           |
| By-pass recirculation [type (inter., ext.)]  |   | External                                 |                           |
| Radiator core [type (cross-flow vertical cellular tube and fin, other) and material] |   | Tube and corrugated fin copper           |                           |
| Cooling<br>system<br>capacity  | With heater—L(qt.)                              | 9.2                                      |                           |
|  | With air cond.—L(qt.)                           |  |                           |
|  | Opt. equipment [specify—L(qt.)]                 |  |                           |
| Water jackets full length of cyl. (yes, no)  |   | Yes                                      |                           |
| Water all around cylinder (yes, no)  |   | No                                       |                           |
| Radiator<br>core   | Standard  | Width                                    | 490 (mm)                  |
|  |   | Height                                   | 400 (mm)                  |
|  |   | Thickness                                | 32 (mm)                   |
|  |   | Fins per inch                            | 25                        |
|  | A/C   | Width                                    |                           |
|  |   | Height                                   |                           |
|  |   | Thickness                                |                           |
|  |   | Fins per inch                            |                           |
|  | Heavy<br>duty                                   | Width                                    | -                         |
|  |   | Height                                   | -                         |
|  |   | Thickness                                | -                         |
|  |   | Fins per inch                            | -                         |
| Fan<br>(standard)  | Number of blades & type (flex, solid, material) |  | 7-Uneven                  |
|  | Diameter & projected width                      |  | 380                       |
|  | Ratio (fan to crankshaft rev.)                  |  | 1.1 : 1                   |
|  | Fan cutout type                                 |  | Thermo-hydraulic coupling |
|  | Drive [type (direct, remote)]                   |  | V-belt, direct            |
|  | Fan shroud (material)                           |  |                           |
| Fan<br>(electric)  | Diameter & projected width                      |  |                           |
|  | RPM at idle                                     |  |                           |
|  | Motor rating (wattage)                          |  |                           |
|  | Motor switch (type & location)                  |  |                           |
|  | Switch point (temp. pressure)                   |  |                           |
| Fan<br>(optional)  | Fan shroud (material)                           |  |                           |
|  | No. of blades and spacing                       |  | None                      |
|  | Diameter & projected width                      |  |                           |
|  | Ratio (fan to crankshaft rev.)                  |  |                           |
|  | Fan cutout (type)                               |  |                           |
| Drive (type, direct, remote)   |   |  |                           |



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Engine Description/Carb.  
 Engine Code

G54B (2.555 Liters)

**Vehicle Emission Control**

|                              |  |  |  |
|------------------------------|--|--|--|
| Exhaust Emission Control     | Type (air injection, engine modifications, other)        |  | Engine modifications, Exhaust gas recirculation, Catalytic converter and Air induction |
|                              | Air Injection  | Pump (type)  | None   |
|                              |  | Driven by  |  |
|                              |  | Air distribution (head, manifold, etc.)                          |  |
|                              |  | Point of entry   |  |
|                              | Exhaust Gas Recirculation                                | Type (controlled flow, open orifice, other)                      | Controlled flow  |
|                              |  | Exhaust source   | Exhaust port No. 2   |
|                              |  | Point of exhaust injection (spacer, carburetor, manifold, other) | Intake manifold  |
|                              | Catalytic Converter                                      | Type   | Oxidation  |
|                              |  | Number of  | 2  |
|                              |  | Location(s)  | In exhaust manifold & Under toe board  |
|                              |  | Volume [L (in <sup>3</sup> )]                                    | 0.7 (43) + 1.0 (61)  |
| Substrate type               |  | Monolith   |  |
| Crankcase Emission Control   | Type (ventilates to atmosphere, induction system, other) |  | Induction system   |
|                              | Energy source (manifold vacuum, carburetor, other)       |  | Intake manifold vacuum   |
|                              | Discharges (to intake manifold, other)                   |  | To intake manifold   |
|                              | Air inlet (breather cap, other)                          |  | Air cleaner  |
| Evaporative Emission Control | Vapor vented to (crankcase, canister, other)             | Fuel tank  | Canister   |
|                              |  | Carburetor   | Canister   |
|                              | Vapor Storage provision (crankcase, canister, other)     |  | Canister   |

**Engine - Exhaust System**

|  |                             |  |
|--|-----------------------------|--|
| Type (single, single with cross-over, dual, other)                   |                             | Single                                 |
| Muffler no. & type (reverse flow, straight thru, separate resonator) |                             | One (Reverse flow)                     |
| Resonator no. & type   |                             | One (Straight flow)                    |
| Exhaust pipe   | Branch o.d., wall thickness |  |
|  | Main o.d., wall thickness   | 54 x 1.6 (mm)                          |
|  | Material                    | Aluminized steel tube                  |
| Intermediate pipe  | o.d. & wall thickness       | 54 x 1.2 (front), 45 x 1.2 (rear) (mm) |
|  | Material                    | Aluminized steel tube                  |
| Tail pipe  | o.d. & wall thickness       | 45 x 1.2 (mm)                          |
|  | Material                    | Aluminized steel tube                  |

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Car Line Dodge Challenger  
 Model Year 1983 Issued 3-1-82 Revised (\*) 8-25-82

Engine Description/Carb.  
 Engine Code

|                     |                  |
|---------------------|------------------|
| G54B (2.555 Liters) |                  |
| Manual Trans.       | Automatic Trans. |

**Electrical — Supply System**

|                         |                                 |  |   |
|-------------------------|---------------------------------|--|---|
| Battery                 | Voltage rtg. (V & total plates) | 12V-90 Plates                          | • |
|                         | Minimum reserve cranking        | 75 min                                 | • |
|                         | SAE capacity (amps)             | 420 amps at 0°F                        | • |
|                         | Location                        | Front, left side of engine compartment |   |
| Generator or alternator | Type and rating                 | 55                                     |   |
|                         | Ratio (alt. crank/rev.)         | 2.22:1                                 |   |
|                         | Optional (type & rating)        | None                                   |   |
| Regulator               | Type                            | Voltage Control                        |   |

**Electrical — Starting System**

|              |                                   |          |
|--------------|-----------------------------------|----------|
| Start. motor | Current drain at 0°F              |          |
| Motor drive  | Engagement type                   | Solenoid |
|              | Pinion engages from (front, rear) | Front    |

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Engine Description/Carb.  
 Engine Code

G54B (2.555 Liters)

**Electrical – Ignition System**

|             |  |                    |  |
|-------------|--|--------------------|--|
| Type        | Conventional (std., opt., n.a.)  |                    | NA                                       |
|             | Transistorized (std., opt., n.a.)  |                    | Std.                                     |
|             | Other (specify)  |                    |  |
| Coil        | Make   |                    | Diamond Electric Manufacturing Co., Ltd. |
|             | Model  |                    | LB-119                                   |
|             | Current  | Engine stopped – A | None                                     |
|             |  | Engine idling – A  | 1.4                                      |
| Spark plug  | Make NGK Spark Plug Co., Ltd. or Champion Spark Plug Co., Ltd. or NIPPON DENSO |                    |  |
|             | Model BPR5ES-11 or RN-12Y or W16EPR-U10  |                    |  |
|             | Thread (mm)  |                    |  |
|             | Tightening torque [N-m (lb. ft.)]  |                    |  |
|             | Gap  |                    |  |
| Distributor | Make   |                    | Mitsubishi Electric Corp.                |
|             | Model  |                    | T4T620                                   |

**Electrical – Suppression**

Locations & type

**Electrical – Instruments and Equipment**

|                           |  |   |
|---------------------------|--|---|
| Speed-ometer              | Type   |   |
|                           | Trip odometer (std., opt., n.a.)                 |   |
| EGR maintenance indicator |  | NA  |
| Charge indicator          | Type   |   |
|                           | Warning device                                   |   |
| Temperature indicator     | Type   | Electric thermal  |
|                           | Warning device                                   |   |
| Oil pressure indicator    | Type   | Electric thermal  |
|                           | Warning device                                   |   |
| Fuel indicator            | Type   |   |
|                           | Warning device                                   |   |
| Wind-shield wiper         | Type (standard)                                  |   |
|                           | Type (optional)                                  | Electric two speed with variable intermittent operation |
|                           | Blade length                                     | 450   |
|                           | Swept area [cm <sup>2</sup> (in. <sup>2</sup> )] | 5180 (883)  |
| Wind-shield washer        | Type (standard)                                  | Electric  |
|                           | Type (optional)                                  | NA  |
|                           | Fluid level indicator                            | NA  |
| Horn                      | Type   | 90 diameter   |
|                           | Number used                                      | two   |

Other

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**Transmissions**

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

**Manual Transmission**

|                                     |                      |  |
|-------------------------------------|----------------------|--|
| Number of forward speeds            |                      | 5  |
| Transmission ratios                 | In first             | 3.740  |
|                                     | In second            | 2.136  |
|                                     | In third             | 1.360  |
|                                     | In fourth            | 1.000  |
|                                     | In fifth             | 0.856  |
|                                     | In overdrive         |  |
|                                     | In reverse           | 3.578  |
| Synchronous meshing (specify gears) |                      | 1, 2, 3, 4, 5                                |
| Shift lever location                |                      |  |
| Lubricant                           | Capacity [L (pt.)]   | 2.3 (4.9)                                    |
|                                     | Type recommended     | Multipurpose gear oil conforming to API GL-4 |
|                                     | SAE viscosity number | Summer SAE 80W, 75W-85W                      |
|                                     |                      | Winter SAE 80W, 75W-85W                      |
|                                     |                      | Extreme cold SAE 80W, 75W-85W                |

**Clutch (Manual Transmission)**

|                             |   |  |
|-----------------------------|---|--|
| Make & type                 |   | Daikin Manufacturing Co., Ltd.                             |
| Type pressure plate springs |   | Diaphragm  |
| Total spring load [N (lb.)] |   | 4020 (904)   |
| No. of clutch driven discs  |   | One  |
| Clutch facing               | Material  | Woven Asbestos   |
|                             | Manufacturer  | Akebono Brake Ind. Co., Ltd. or Hitachi Chemical Co., Ltd. |
|                             | Part number   | None   |
|                             | Rivets/plate  |  |
|                             | Rivet size  | 4 (mm)   |
|                             | Outside & inside dia.                                 | 225 x 150 (mm)   |
|                             | Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )] | 442 (68.5)   |
|                             | Thickness   | 3.5 (mm)   |
|                             | Engagement cushion method                             | Flat-wave springs  |
| Release bearing             | Type & method of lubrication                          | Ball bearing, permanently lubricated                       |
| Torsional damping           | Method: springs, friction material                    | Coil springs and friction washers                          |

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G54B (2.555 Liters)

**Automatic Transmission**

|  |                               |  |
|--|-------------------------------|--|
| Trade name                                     |                               | Chrysler Motors Corp. A904   |
| Type (describe)                                |                               | Torque converter with automatically operated Planetary gear transmission |
| Selector                                       | Location                      | Lever: Console mounted   |
|  | Ltr /No designation           | P. R. N. D. 2. L/6   |
| Gear ratios                                    | R                             | 2.214  |
|  | D                             | 2.745, 1.543, 1.000  |
|  | L <sub>3</sub>                |  |
|  | L <sub>2</sub>                | 2.745, 1.543   |
|  | L <sub>1</sub>                | 2.745  |
| Max. upshift speed - drive range [km/h (mph)]  |                               | 109 (68)   |
| Max. kickdown speed - drive range [km/h (mph)] |                               | 100 (63)   |
| Min. overdrive speed [km/h (mph)]              |                               |  |
| Torque converter                               | Number of elements            | Three  |
|  | Max. ratio at stall           | 1.96 : 1   |
|  | Type of cooling (air, liquid) | Liquid   |
|  | Nominal diameter              | 240  |
| Lubricant                                      | Capacity (refill L (pt.))     | 6.8 (14.4)   |
|  | Type recommended              | DEXRON or DEXRON II automatic transmission fluid                         |
| Special transmission features                  |                               |  |

**Axle or Front Wheel Drive Unit**

|                                   |                      |   |
|-----------------------------------|----------------------|---|
| Type (front, rear)                |                      | Rear  |
| Description                       |                      | Separable                                     |
| Limited slip differential (type)  |                      | N.A.  |
| Drive pinion offset               |                      | 30 (mm)                                       |
| Drive pinion (type)               |                      | Hypoid  |
| No. of differential pinions       |                      | 2   |
| Pinion adjustment (shim, other)   |                      | Shim  |
| Pinion bearing adj. (shim, other) |                      | Shim  |
| Driving wheel bearing (type)      |                      | Ball  |
| Lubricant                         | Capacity [L (pt.)]   | 1.1 (2.33)                                    |
|                                   | Type recommended     | Multipurpose gear oil conforming to API GL -4 |
|                                   | SAE viscosity number | SAE 90 85W-90 80W-90 (above -10°F)            |
|                                   |                      | SAE 85W 80W-90 (as low as -30°F)              |
|                                   |                      | SAE 75W (below -30°F)                         |

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

|                             |                     |            |
|-----------------------------|---------------------|------------|
| Axle ratio or overall ratio |                     | 3.308      |
| No. of teeth                | Pinion              | 13         |
|                             | Ring gear or gear   | 43         |
| Ring gear o.d.              |                     | 184.0 (mm) |
| Transaxle                   | Transfer gear ratio |            |
|                             | Final drive ratio   |            |

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

 Car Line \_\_\_\_\_  
 Model Year 1983 Issued 3-1-82 Revised (\*) \_\_\_\_\_

 Engine Description/Carb.  
 Engine Code

|                     |                  |
|---------------------|------------------|
| G54B (2.555 Litres) |                  |
| Manual Trans.       | Automatic Trans. |

**Propeller Shaft – Conventional Drive**

|  |                                   |                             |  |                             |
|--|-----------------------------------|-----------------------------|--|-----------------------------|
| Type (straight tube, tube-in-tube, internal-external damper, etc.) |                                   |                             | Straight Tube                              |                             |
| Outer diam x length* x wall thickness                              | Manual 3-speed trans              |                             | N.A.                                       |                             |
|  | Manual 4-speed trans              |                             | N.A.                                       |                             |
|  | Manual 5-speed trans              |                             | 75 x (664 + 606) x 1.6                     | (mm)                        |
|  | Overdrive                         |                             | N.A.                                       |                             |
|  | Automatic transmission            |                             |  | 65 x (560 + 627) x 1.6 (mm) |
| Inter-mediate bearing  | Type (plain, anti-friction)       |                             | Anti friction                              |                             |
|  | Lubrication (fitting, prepack)    |                             | Prepack                                    |                             |
| Slip yoke  | Type                              |                             | Sliding spline                             |                             |
|  | Number of teeth                   |                             | 23 (24 Indexed)                            | 25 (26 Indexed)             |
|  | Spline o.d.                       |                             | 27.3                                       | 29.3 (mm)                   |
| Universal joints   | Make and mfg. no.                 | Front                       | Cross : MMC, Bearing : Koyo Seiko Co. Ltd. |                             |
|  |                                   | Rear                        | Cross : MMC, Bearing : Koyo Seiko Co. Ltd  |                             |
|  | Number used                       |                             | Three                                      |                             |
|  | Type (ball and trunnion, cross)   |                             | Cross                                      |                             |
|  | Rear attach (u-bolt, clamp, etc.) |                             | Clamp (Snap ring)                          |                             |
|  | Bearing                           | Type (plain, anti-friction) | Anti-friction                              |                             |
|  |                                   | Lubric. (fitting, prepack)  | Prepack                                    |                             |
| Drive taken through (torque tube, arms or springs)                 |                                   |                             | Lower Arm & Upper Arm                      |                             |
| Torque taken through (torque tube, arms or springs)                |                                   |                             | Lower Arm & Upper Arm                      |                             |

\* Centerline to centerline of universal joints, or to centerline of rear attachment.

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

Car Line \_\_\_\_\_  
Model Year 1983 Issued 3-1-82 Revised (•) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

G54B (2.555 Litres)

**Tires And Wheels (Standard)**

|        |   |                     |                                      |  |
|--------|---|---------------------|--------------------------------------|--|
| Tires  | Size (load range, ply)                                      |                     | P195/70R14, Standard load            |  |
|        | Type (bias, radial, etc.)                                   |                     | Radial                               |  |
|        | Inflation pressure (cold) for recommended max. vehicle load | Front (kPa (psi))   | 165 (24)                             |  |
|        |   | Rear (kPa (psi))    | 165 (24)                             |  |
|        | Rev./mile—at 70 km/h (45 mph)                               |                     | 520                                  |  |
| Wheels | Type & material   |                     | Disc, Steel                          |  |
|        | Rim (size & flange type)                                    |                     | 14 x 5 1/2 JJ                        |  |
|        | Wheel offset  |                     | 24 (mm)                              |  |
|        | Attachment  | Type (bolt or stud) | Stud                                 |  |
|        |   | Circle diameter     | 114.3 (mm)                           |  |
| Spare  | Number & size   |                     | Four, M12 x 1.5 (Metric)             |  |
|        | Tire and wheel (same, if other describe)                    |                     | Other, T125/70D15 High pressure tire |  |
|        | Storage position & location (describe)                      |                     | Package room                         |  |

**Tires And Wheels (Optional)**

|  |  |                |
|--|--|----------------|
| Size (load range, ply)   |  |                |
| Type (bias, radial, etc.)  |  |                |
| Wheel (type & material)  |  | Disc, Aluminum |
| Rim (size, flange type and offset)   |  | 14 x 5 1/2 JJ  |
| Size (load range, ply)   |  |                |
| Type (bias, radial, etc.)  |  |                |
| Wheel (type & material)  |  |                |
| Rim (size, flange type and offset)   |  |                |
| Size (load range, ply)   |  |                |
| Type (bias, radial, etc.)  |  |                |
| Wheel (type & material)  |  |                |
| Rim (size, flange type and offset)   |  |                |
| Size (load range, ply)   |  |                |
| Type (bias, radial, etc.)  |  |                |
| Wheel (type & material)  |  |                |
| Rim (size, flange type and offset)   |  |                |
| Spare tire and wheel   |  |                |
| (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position) |  |                |

**Brakes — Parking**

|                                 |  |                         |
|---------------------------------|--|-------------------------|
| Type of control                 |  | 1 Handle, Hand-operated |
| Location of control             |  | Between front seats     |
| Operates on                     |  | Rear wheels             |
| If separate from service brakes | Type (internal or external)              | -                       |
|                                 | Drum diameter                            | -                       |
|                                 | Lining size (length x width x thickness) | -                       |

# Dodge Challenger

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

Car Line \_\_\_\_\_  
Model Year 1983 Issued 3-1-82 Revised (\*) 7-9-82

Body Type And/Or  
Engine Displacement

G54B (2.555 Litres)

### Brakes - Service

| Description  |   |  | Standard   | option                      |
|--|---|--|--|-----------------------------|
| Brake type<br>(std., opt., n.a.)                           |   | Front (disc or drum)                                   | Disc   | Disc                        |
|  |   | Rear (disc or drum)                                    | Drum   | Disc                        |
| Self-adjusting (std., opt., n.a.)                          |   |  | Std.   |                             |
| Special<br>valving   | Type (proportion, delay, metering, other) |  | Proportion valve<br>(Not operating in front failure) | Proportion valve            |
| Power brake (std., opt., n.a.)                             |   |  | Std.   |                             |
| Booster type (remote, integral, vac., hyd., etc.)          |   |  | Integral   |                             |
| Anti-skid device type (std., opt., n.a.)                   |   |  | N.A.   |                             |
| Effective area [cm <sup>2</sup> (in. <sup>2</sup> )] *     |   |  | F:208 (32.2), R:348 (53.9)                           | F:208 (32.2), R:128 (19.8)  |
| Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )] ** |   |  | F:214 (33.2), R:348 (53.9)                           | F:214 (33.2), R:133 (20.6)  |
| Swept area [cm <sup>2</sup> (in. <sup>2</sup> )] ***       |   |  | 1844 (285.8)   | 2259 (350.1)                |
| Rotor  | Outer working diameter                    | F  | 252  | 252 (mm)                    |
|  |   | R  | -  | 244 (mm)                    |
|  | Inner working diameter                    | F  | 152  | 152 (mm)                    |
|  |   | R  | -  | 167 (mm)                    |
|  | Thickness                                 | F  | 12.5   | 12.5 (mm)                   |
|  |   | R  | -  | 10 (mm)                     |
|  | Material & type (vented/solid)            | F  | Cast iron (Solid)                                    | Cast iron (Solid)           |
|  |   | R  | -  | Cast iron (Solid)           |
| Drum   | Diameter<br>(nominal)                     | F  | -  | -                           |
|  |   | R  | 228.6  | - (mm)                      |
|  | Type and material                         | Cast iron  | -  |                             |
| Wheel cyl-<br>inder bore                                   | Front                                     | 53.97  | 53.97  |                             |
|  | Rear                                      | 20.64  | 38.10  |                             |
| Master<br>cylinder   | Bore                                      | 22.22  |  |                             |
|  | Stroke                                    | 31   |  |                             |
| Pedal arc ratio  |   |  | 4.42   |                             |
| Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]    |   |  | 9930 (1447)  | 12240 (1783)                |
| Lining<br>clearance<br>per shoe                            | Front                                     | No major adjustment required                           |  |                             |
|  | Rear                                      | 0.3-0.47 (Self adjusting) No major adjustment required |  |                             |
| Brake<br>lining  | Front<br>wheel                            | Bonded or riveted (rivets/seg.)                        |  | Bonded                      |
|  |   | Rivet size   |  | -                           |
|  |   | Manufacturer   |  | Akebono Brake Industry Ltd. |
|  |   | Lining code  |  | AKV 3015EE                  |
|  |   | Material   |  | Molded                      |
|  |   | ****   | Primary or out-board                                 | 111.6 x 46.6 x 10.5         |
|  |   | Size   | Secondary or in-board                                | 111.6 x 46.6 x 10.5         |
|  |   | Shoe thickness (no lining)                             |  | 5.0                         |
|  | Rear<br>wheel                             | Bonded or riveted (rivets/seg.)                        |  | Bonded                      |
|  |   | Manufacturer   |  | Akebono Brake Industry Ltd. |
|  |   | Lining code  |  | AKB 701 AFE                 |
|  |   | Material   |  | Molded                      |
|  |   | ****   | Primary or out-board                                 | 219 x 40 x 4.3              |
|  |   | Size   | Secondary or in-board                                | 219 x 40 x 4.3              |
|  |   | Shoe thickness (no lining)                             |  | 2.0                         |
|  |   |  |  | 6.0                         |

\* Excludes rivet holes, grooves, chamfers, etc.

\*\* Includes rivet holes, grooves, chamfers, etc.

\*\*\* Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia. minus Square of Inner Working Dia. multiplied by Pi/2 for each brake.)

\*\*\*\* Size for drum brakes includes length x thickness.



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

 Car Line \_\_\_\_\_  
 Model Year 1983 Issued 3-1-82 Revised (\*) \_\_\_\_\_

 Body Type And/Or  
 Engine Displacement

G54B (2.555 Litres)

**Steering**

|  |   |                        |  |            |  |
|--|---|------------------------|--|------------|--|
| Manual (std., opt., n.a.)                      |   |                        |  | N.A.       |  |
| Power (std., opt., n.a.)                       |   |                        |  | Std.       |  |
| Adjustable steering wheel (tilt, swing, other) | Type and description                      |                        | Tilt   |            |  |
|  | (Std., opt., n.a.)                        |                        | Std.   |            |  |
| Wheel diameter                                 | Manual                                    |                        | -  |            |  |
|  | Power                                     |                        | 380  |            |  |
| Turning diameter m (ft.)                       | Outside front                             | Wall to wall (l. & r.) |  | 5.5 (18.0) |  |
|  |   | Curb to curb (l. & r.) |  | 5.0 (16.4) |  |
|  | Inside rear                               | Wall to wall (l. & r.) |  | -          |  |
|  |   | Curb to curb (l. & r.) |  | -          |  |
| Manual   | Gear                                      | Type                   |  |            |  |
|  |   | Make                   |  |            |  |
|  |   | Ratios                 | Gear   |            |  |
|  |   |                        | Overall  |            |  |
|  | No. wheel turns (stop to stop)            |                        |  |            |  |
| Power  | Type (coaxial, linkage, etc.)             |                        | Integral type power steering                   |            |  |
|  | Make                                      |                        | Koyo Seiko Co. Ltd.                            |            |  |
|  | Gear                                      | Type                   | Recirculating ball nut                         |            |  |
|  |   | Ratios                 | Gear   | 16.4       |  |
|  |   |                        | Overall  | 17.1       |  |
|  | Pump (drive)                              |                        | V-Belt   |            |  |
| No. wheel turns (stop to stop)                 |   | 3.4                    |  |            |  |
| Linkage  | Type                                      |                        | Parallelogram, trailing, equal length the rods |            |  |
|  | Location (front or rear of wheels, other) |                        | Rear   |            |  |
|  | Drag links (trans. or longit.)            |                        | Transverse center line                         |            |  |
|  | Tie rods (one or two)                     |                        | Two  |            |  |
| Steering axis                                  | Inclination at camber (deg)               |                        | 9° 30'   |            |  |
|  | Bearings (type)                           | Upper                  | Ball bearing                                   |            |  |
|  |   | Lower                  | Ball Joint                                     |            |  |
|  |   | Thrust                 | -  |            |  |
|  | Steering spindle & joint type             |                        | Ball   |            |  |
| Wheel spindle                                  | Diameter                                  | Inner bearing          | 31.750 (mm)                                    |            |  |
|  |   | Outer bearing          | 19.050 (mm)                                    |            |  |
|  | Thread (size)                             |                        | M16 x 1.0 (Metric)                             |            |  |
|  | Bearing (type)                            |                        | Tapered roller                                 |            |  |

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

 Car Line \_\_\_\_\_  
 Model Year 1983 Issued 3-1-82 Revised (\*) \_\_\_\_\_

 Body Type And/Or  
 Engine Displacement

G54B (2.555 Litres)

**Wheel Alignment**

|   |                                  |                                 |                        |
|---|----------------------------------|---------------------------------|------------------------|
| Front<br>wheel at<br>curb mass<br>(wt.) | Service<br>checking              | Caster (deg.)                   | $2^{\circ}40' \pm 30'$ |
|   |                                  | Camber (deg.)                   | $1^{\circ}10' \pm 30'$ |
|   |                                  | Toe-in [outside track-mm (in.)] | 0 (0) ~ 7 (0.28)       |
|   | Service<br>reset*                | Caster                          |                        |
|   |                                  | Camber                          |                        |
|   |                                  | Toe-in                          |                        |
|   | Periodic<br>M.V. in-<br>spection | Caster                          |                        |
|   |                                  | Camber                          |                        |
|   |                                  | Toe-in                          |                        |
| Rear<br>wheel at<br>curb mass<br>(wt.)  | Service<br>checking              | Camber (deg.)                   |                        |
|   |                                  | Toe-in [outside track-mm (in.)] |                        |
|   | Service<br>reset*                | Camber                          |                        |
|   |                                  | Toe-in                          |                        |
|   | Periodic<br>M.V. in-<br>spection | Camber                          |                        |
|   |                                  | Toe-in                          |                        |

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

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

Car Line \_\_\_\_\_  
Model Year 1983 Issued 3-1-82 Revised (•) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

G54B (2.555 Litres)

**Suspension – General**

|                                    |                        |                          |                      |
|------------------------------------|------------------------|--------------------------|----------------------|
| Car leveling                       | Std./opt./n.a.         | N.A.                     |                      |
|                                    | Type (air, hyd., etc.) | -                        |                      |
|                                    | Manual/auto controlled | -                        |                      |
| Provision for brake dip control    |                        | N.A.                     |                      |
| Provision for accel. squat control |                        | N.A.                     |                      |
| Special provisions for car jacking |                        | N.A.                     |                      |
| Shock absorber (front & rear)      | Type                   | Front:Strut type         | Rear:Telescopic type |
|                                    | Make                   | Kayaba Industry Co. Ltd. | ←                    |
|                                    | Piston diameter        | 32                       | 25 (mm)              |
| Other special features             |                        | N.A.                     |                      |

**Suspension – Front**

|                      |   |                                       |      |
|----------------------|---|---------------------------------------|------|
| Type and description |   | Independent strut type                |      |
| Travel               | Full jounce   | 90                                    | (mm) |
|                      | Full rebound  | 90                                    | (mm) |
| Spring               | Type (coil, leaf, other)                            | Coil                                  |      |
|                      | Material  | SUP9 (Spring steel, Specified in JIS) |      |
|                      | Size (coil design height & i.d., bar length x dia.) | 370.0, 116.8                          |      |
|                      |   | 357.5, 117.0                          | (mm) |
|                      | Spring rate [N/mm (lb./in.)]                        | 21.6 (123.2)                          |      |
|                      | Rate at wheel [N/mm (lb./in.)]                      | 19.2 (109.8)                          |      |
| Stabilizer           | Type (link, linkless, frameless)                    | Link                                  |      |
|                      | Material & bar diameter                             | SUP6, 22                              | (mm) |

**Suspension – Rear**

|                                |   |                             |      |
|--------------------------------|---|-----------------------------|------|
| Type and description           |   | Rigid Axle                  |      |
| Drive and torque taken through |   | Upper and lower control arm |      |
| Travel                         | Full jounce   | 105                         | (mm) |
|                                | Full rebound  | 90                          | (mm) |
| Spring                         | Type (coil, leaf, other)  | Coil                        |      |
|                                | Material  | SUP6                        |      |
|                                | Size (length x width, coil design height & i.d., bar length & dia.) | 349, 103.2                  | (mm) |
|                                |   |                             |      |
|                                | Spring rate [N/mm (lb./in.)]  | 18.0~34.2 (103.0~195.4)     |      |
|                                | Rate at wheel [N/mm (lb./in.)]                                      | 18.0~34.2 (103.0~195.4)     |      |
| Stabilizer                     | Mounting insulation (type)  | Rubber pad                  |      |
|                                | If leaf   | No. of leaves               | -    |
|                                |   | Shackle (comp or tens)      | -    |
| Track bar (type)               | Type (link, linkless, frameless)                                    | N.A.                        |      |
|                                | Material & bar diameter   | -                           |      |

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

 Car Line \_\_\_\_\_  
 Model Year 1983 Issued 3-1-82 Revised (\*) \_\_\_\_\_

Body Type

G54B (2.555 Liters)

**Body - Miscellaneous Information**

|   |   |                                       |
|---|---|---------------------------------------|
| Type of finish (lacquer, enamel, other)             |   | Heat setting acrylic enamel           |
| Hood  | Hinge location (front, rear)                  | Rear                                  |
|   | Type (counterbalance, prop)                   | -                                     |
|   | Release control (internal, external)          | Internal                              |
| Trunk lid   | Type (counterbalance, other)                  | Coil spring                           |
|   | Internal release control (elec., mech., n.a.) | Mech.                                 |
| Bumper front  | Bar material & mass (wt.)                     | Polyurethane (1.73 kg)                |
|   | Reinforcement material & mass (wt.)           | Steel (11.5 kg)                       |
| Bumper rear   | Bar material & mass (wt.)                     | Polyurethane (1.9 kg)                 |
|   | Reinforcement material & mass (wt.)           | Steel (14.3 kg)                       |
| Vent window control (crank, friction, pivot, power) | Front   | None                                  |
|   | Rear  | None                                  |
| Seat cushion type                                   | Front   | Spring                                |
|   | Rear  | Urethane form                         |
|   | 3rd seat                                      | -                                     |
| Seat back type                                      | Front   | Spring                                |
|   | Rear  | Spring                                |
|   | 3rd seat                                      | -                                     |
| Vehicle ident. no. location                         |   | Left front corner of instrument panel |

**Passive Restraint System**

|                             |  |      |
|-----------------------------|--|------|
| Inflatable restraint system | Standard/optional                          | N.A. |
|                             | Type of charging system                    | -    |
|                             | Location (stg. whl., instru. panel, other) | -    |
| Passive seat belts          | Standard/optional                          | N.A. |
|                             | Power/manual                               | -    |
|                             | 2 or 3 point                               | -    |
|                             | Knee bar/lap belt                          | -    |

**Frame**

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

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

## Dodge Challenger

Car Line \_\_\_\_\_  
Model Year 1983 Issued 3-1-81 Revised (•) \_\_\_\_\_

**Body Type**

G54B (2.555 Liters)

### Convenience Equipment

[illegible]

**MVMA Specifications Form**  
**Passenger Car**

Dodge Challenger

Car Line \_\_\_\_\_  
Model Year 1982 Issued 3-1-82 Revised (\*) \_\_\_\_\_

**FEATURE HIGHLIGHTS**

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

---

**BODY:**

- Anti-corrosion treatment
- Safety body structure

---

**CHASSIS:**

- Front-Mcpherson struts & coil
- Rear- 4 link & coil with assist link

---

**ENGINE:**

- 2.6ℓ 4 cylinder OHC with balancer shaft and MCA-JET system

---

**ELECTRICAL:**

1. Standard

- Maintenance free battery
- Variable intermittent wiper
- AM/FM radio with 4 speaker
- Digital quartz clock

2. Option

- Electronic instrument cluster
- Audible warning
- Power window
- Electronic tuning radio (AM/FM MPX)  
with cassette and 6 speaker
- Illuminated entry system

---

**OTHER:**

- 2 Tone paint (Option)
- Door trim panel with map pocket

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

Car Line \_\_\_\_\_  
Model Year 1983 Issued 3-1-82 Revised (•) 7-9-82

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

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

## Dodge Challenger

Car Line \_\_\_\_\_  
Model Year 1983 Issued 3-1-82 Revised (\*) \_\_\_\_\_

[illegible]

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



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

Car Line \_\_\_\_\_

Model Year 1983Issued 3-1-82

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.  
J1100a "Motor Vehicle Dimensions," unless otherwise specified.

**Body Type**SAE  
Ref.  
No.

G54B (2.555 Liters)

**Width**

|                                  |      |      |
|----------------------------------|------|------|
| Tread (front)                    | W101 | 1375 |
| Tread (rear)                     | W102 | 1355 |
| Vehicle width                    | W103 | 1675 |
| Body width at Sg RP (front)      | W117 | 1675 |
| Vehicle width (front doors open) | W120 | 3640 |
| Vehicle width (rear doors open)  | W121 | -    |

**Length**

|                               |      |      |
|-------------------------------|------|------|
| Wheelbase                     | L101 | 2530 |
| Vehicle length                | L103 | 4573 |
| Overhang (front)              | L104 | 931  |
| Overhang (rear)               | L105 | 1112 |
| Upper structure length        | L123 | 2487 |
| Rear wheel C/L "X" coordinate | L127 | 2530 |
| Cowl point "X" coordinate     | L125 | 470  |

**Height\***

|                                     |         |                   |
|-------------------------------------|---------|-------------------|
| Passenger distribution (frt./rear)  | PD1,2,3 | Front: 2, Rear: 3 |
| Trunk/cargo load                    |         |                   |
| Vehicle height                      | H101    | 1340              |
| Cowl point to ground                | H114    | 953               |
| Deck point to ground                | H138    | 953               |
| Rocker panel-front to ground        | H112    | 225               |
| Bottom of door closed-front to grd. | H133    | 303               |
| Rocker panel-rear to ground         | H111    | 227               |
| Bottom of door closed-rear to grd.  | H135    | -                 |
|                                     | H122    | 59                |

**Ground Clearance\***

|   |      |         |
|---|------|---------|
| Front bumper to ground                      | H102 | 410     |
| Rear bumper to ground                       | H104 | 401     |
| Bumper to ground (front at curb mass (wt.)) | H103 | 411     |
| Bumper to ground (rear at curb mass (wt.))  | H105 | 410     |
| Angle of approach                           | H106 | 26      |
| Angle of departure                          | H107 | 19      |
| Ramp breakover angle                        | H147 | 19      |
| Rear axle differential to ground            | H153 | 168     |
| Min. running ground clearance               | H156 | 152     |
| Location of min. run. grd. clear.           |      | MUFFLER |

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds).

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

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

Car Line \_\_\_\_\_

Model Year 1983 Issued 3-1-82 Revised (•) \_\_\_\_\_

Body Type

SAE  
Ref.  
No.

G54B (2.555 Liters)

**Front Compartment**

|                                  |     |      |
|----------------------------------|-----|------|
| Sg RP front, "X" coordinate      | L31 | 1400 |
| Effective head room              | H61 | 935  |
| Max. eff. leg room (accelerator) | L34 | 1045 |
| Sg RP (front to heel)            | H30 | 245  |
| Design H-point front travel      | L17 | 199  |
| Shoulder room                    | W3  | 1315 |
| Hip room                         | W5  | 1350 |
| Upper body opening to ground     | H50 | 1232 |
| Steering wheel angle             | H18 | 22   |
| Back angle                       | L40 | 23   |

**Rear Compartment**

|                              |     |      |
|------------------------------|-----|------|
| Sg RP Point couple distance  | L50 | 700  |
| Effective head room          | H63 | 900  |
| Min. effective leg room      | L51 | 880  |
| Sg RP (second to heel)       | H31 | 295  |
| Knee clearance               | L48 | 0    |
| Compartment room             | L3  | 445  |
| Shoulder room                | W4  | 1295 |
| Hip room                     | W6  | 1045 |
| Upper body opening to ground | H51 | -    |

**Luggage Compartment**

|                                       |      |      |
|---------------------------------------|------|------|
| Usable luggage capacity [L (cu. ft.)] | V1   | 9.27 |
| Liftover height                       | H195 |      |

All linear dimensions are in millimeters (inches).

# MVMA Specifications Form

## Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Dodge Challenger

Car Line \_\_\_\_\_  
Model Year 1983 Issued 3-1-82 Revised (\*) \_\_\_\_\_

Body Type

SAE  
Ref.  
No.

### Station Wagon – Third Seat

|                             |     |  |
|-----------------------------|-----|--|
| Shoulder room               | W85 |  |
| Hip room                    | W86 |  |
| Effective leg room          | L86 |  |
| Effective head room         | H86 |  |
| Effective T-point head room | H89 |  |
| Seat facing direction       | SD1 |  |

### Station Wagon – Cargo Space

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

### Hatchback – Cargo Space

|  |      |  |
|--|------|--|
| Front seat back to load floor height                     | H197 |  |
| Cargo length at front seat back height                   | L208 |  |
| Cargo length at floor (front)                            | L209 |  |
| Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]  | V3   |  |
| Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )] | V4   |  |

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

All dimensions are in millimeters (inches).

**MVMA Specifications Form****Passenger Car**

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line \_\_\_\_\_

Model Year 1983 Issued 3-1-82 Revised (\*) \_\_\_\_\_

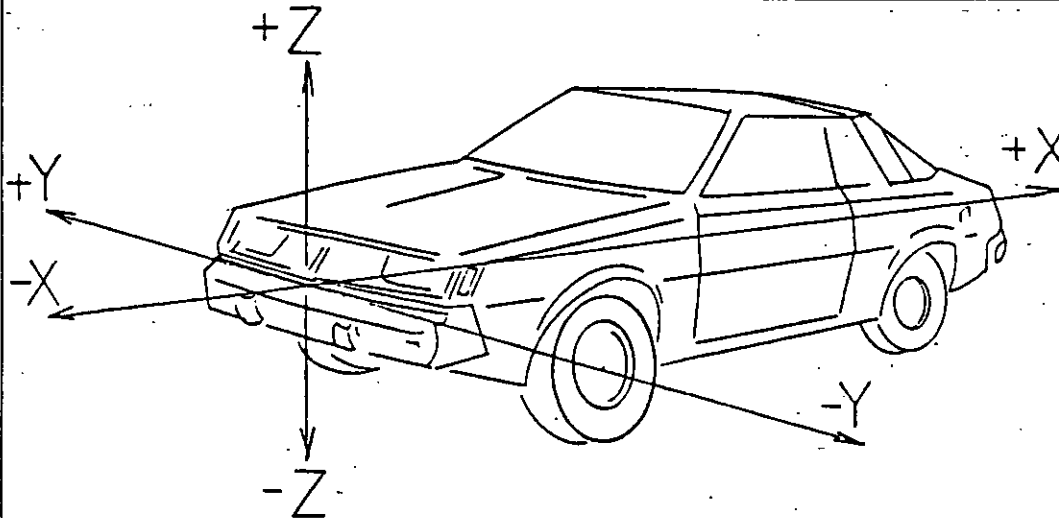
Body Type

G54B (2.555 Liters)

**Vehicle Fiducial Marks**Fiducial Mark  
Number\*

Define Coordinate Location

Front



Rear

Detum plane definition - Vertical longitudinal plane through the longitudinal center of the car.  
 Vertical transverse plan through the front wheel center.  
 Horizontal plane through the bottom of the rocker panels.

Fiducial  
Mark  
Number

|       |      |     |
|-------|------|-----|
| Front | W21  | 345 |
|       | L54  | 20  |
|       | H81  | 111 |
|       | H161 | 317 |
|       | H163 | 319 |

|      |      |      |
|------|------|------|
| Rear | W22  | 480  |
|      | L55  | 3250 |
|      | H82  | 232  |
|      | H162 | 438  |
|      | H164 | 450  |

\* Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks - September, 1973.  
 All linear dimensions are in millimeters (inches).

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Dodge Challenger

Car Line \_\_\_\_\_

Model Year 1983 Issued 3-1-82 Revised (\*) \_\_\_\_\_

Body Type

SAE  
Ref.  
No.

G54B (2.555 Liters)

## Glass

|   |      |   |     |
|---|------|---|-----|
| Backlight slope angle (deg.)  | H121 | 62  | (°) |
| Windshield slope angle (deg.)   | H122 | 56  | (°) |
| Tumble-Home (deg.)  | W122 | 24  | (°) |
| Windshield glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )] | S1   | 7680 cm <sup>2</sup> (11.9 in <sup>2</sup> )  |     |
| Side glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]       | S2   | 8120 cm <sup>2</sup> (12.6 in <sup>2</sup> )  |     |
| Backlight glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]  | S3   | 9040 cm <sup>2</sup> (14.0 in <sup>2</sup> )  |     |
| Total glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]      | S4   | 24840 cm <sup>2</sup> (38.5 in <sup>2</sup> ) |     |
| Windshield glass (type)   |      | Curved-Laminated Plate                        |     |
| Side glass (type)   |      | Curved-Tempered Plate                         |     |
| Backlight glass (type)  |      | Curved-Tempered Plate                         |     |

## Lamps and Headlamp Shape\*

|   |                 |           |                             |
|---|-----------------|-----------|-----------------------------|
| Height above ground to center of bulb or marker | Headlamp (H127) | Highest** | 699                         |
|   |                 | Lowest    | 699                         |
|   | Taillamp (H128) | Highest** | 733                         |
|   |                 | Lowest    | 733                         |
|   | Sidemarker      | Front     | 656                         |
|   |                 | Rear      | 682                         |
| Distance from C/L of car to center of bulb      | Headlamp        | Inside    | 392                         |
|   |                 | Outside** | 575                         |
|   | Taillamp        | Inside    | 481                         |
|   |                 | Outside** | 579                         |
|   | Directional     | Front     | 503                         |
|   |                 | Rear      | 707                         |
| Headlamp shape                                  |                 |           | 4 x 6 1/2" rectangular unit |

\* Measured at curb mass (weight).

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

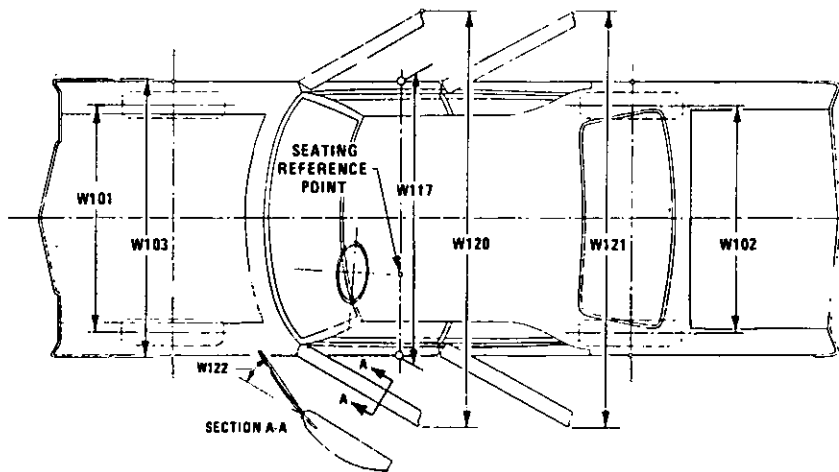
## MVMA Specifications Form

## Passenger Car

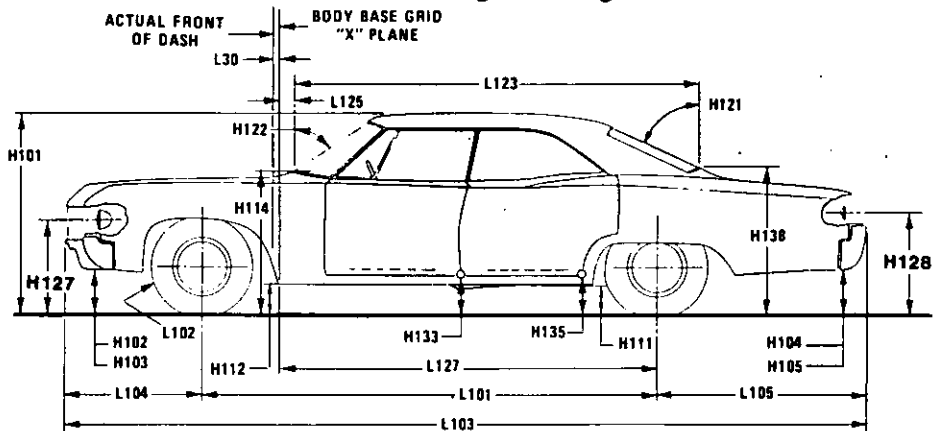
**METRIC (U.S. Customary)**

### Exterior Car And Body Dimensions – Key Sheet

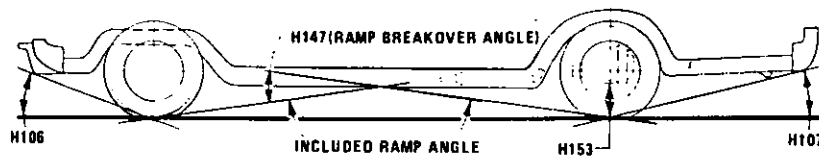
### Exterior Width



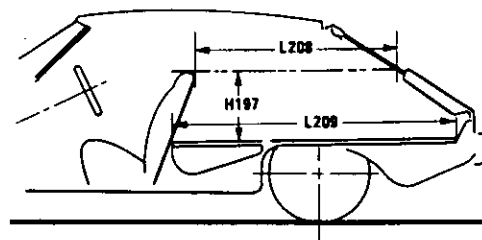
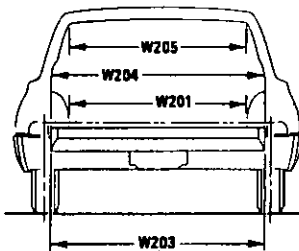
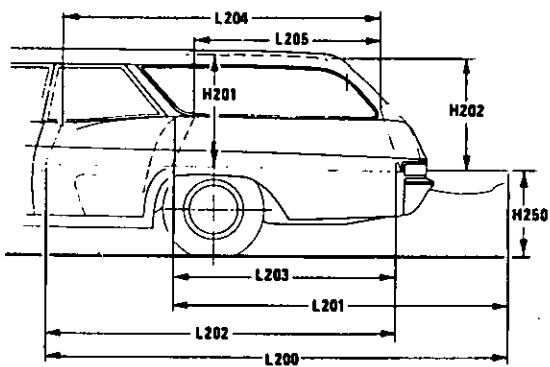
### Exterior Length & Height



### Exterior Ground Clearance



## Cargo Space



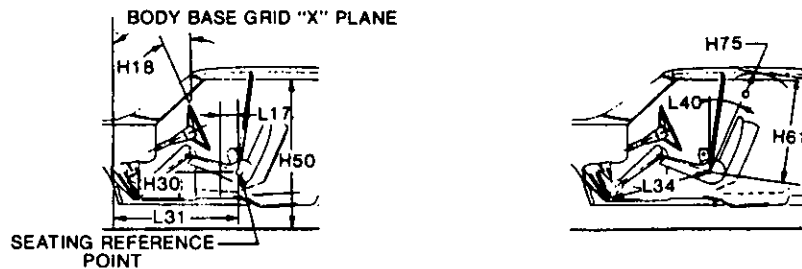
## Hatchback

## Station Wagon

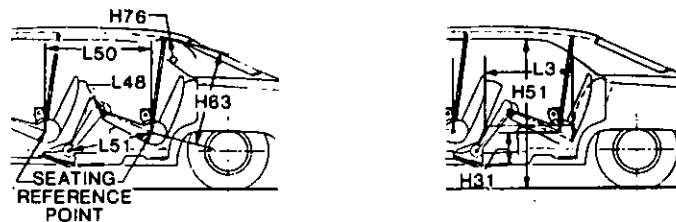
**MVMA Specifications Form**  
**Passenger Car**  
METRIC (U.S. Customary)

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

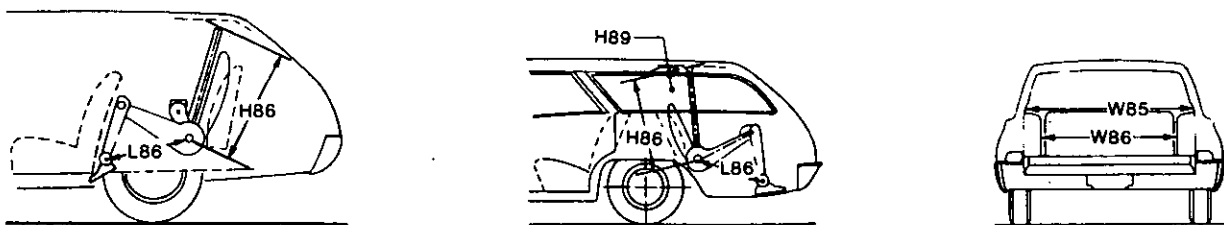
**Front Compartment**



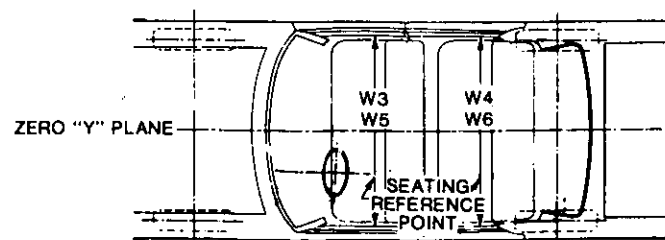
**Rear Compartment**



**Third Seat**



**Interior Width**



# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

##### Seating Reference Point

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

- (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- (b) Has coordinates established relative to the design vehicle structure;
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

##### Width Dimensions

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

##### Length Dimensions

- L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash in forward of the zero "X" plane.
- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L102 TIRE SIZE. As specified by the manufacturer.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHANG—FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

- L105 OVERHANG—REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.
- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.
- L125 COWL POINT "X" COORDINATE.

##### Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H112 ROCKER PANEL—FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H132 BOTTOM OF DOOR OPEN—FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.
- H111 ROCKER PANEL—REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H134 BOTTOM OF DOOR OPEN—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.
- H135 BOTTOM OF DOOR CLOSED—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield are running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.
- H127 HEADLAMP TO GROUND—CURB MASS (WT.). The 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.

##### 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.



# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

- H103 FRONT BUMPER TO GROUND CURB MASS (WT.). Measured in the same manner as H104.
- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND—CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius are the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius are the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 REAR BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

#### Front Compartment Dimensions

- PD1 PASSENGER DISTRIBUTION—FRONT.
- L31 SgRP—FRONT "X" COORDINATED.
- H61 EFFECTIVE HEAD ROOM—FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP—front to the headlining plus 102 mm (4.0 in.).
- H75 EFFECTIVE T-POINT HEAD ROOM—FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).
- L34 MAXIMUM EFFECTIVE LEG ROOM—ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP—front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- H30 SgRP—FRONT TO HEEL. The dimension measured vertically from the SgRP—front to the accelerator heel point.
- L17 DESIGN H-POINT—FRONT TRAVEL. The dimension measured horizontally between the design H-point—front in the foremost and rearmost seat trace positions.
- W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within the belt line and 254 mm (10.0 in.) above the SgRP—front.
- W5 HIP ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP—front and 76 mm (3.0 in.) fore and aft the SgRP—front.
- H150 UPPER BODY OPENING TO GROUND—FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP—front "X" plane.

- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- L40 BACK ANGLE—FRONT. The angle measured between a vertical line through the SgRP—front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

#### Rear Compartment Dimensions

- PD2 PASSENGER DISTRIBUTION—SECOND.
- L50 SgRP COUPLE DISTANCE. The dimension measured horizontally from the driver SgRP—front to the SgRP—second.
- H63 EFFECTIVE HEAD ROOM—SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H76 EFFECTIVE T-POINT HEAD ROOM—SECOND. Measured in the same manner as H75.
- L51 MINIMUM EFFECTIVE LEG ROOM—SECOND. The dimension measured along a line from the ankle pivot center to the SgRP—second plus 254 mm (10.0 in.).
- H31 SgRP—SECOND TO HEEL. The dimension measured vertically from the SgRP—second to the two dimensional device heel point on the depressed floor covering.
- L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).
- L3 COMPARTMENT ROOM—SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.
- W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP—second within 254-406 mm (10.0-16.0 in.) above the SgRP—second.
- W6 HIP ROOM—SECOND. Measured in the same manner as W5.
- H51 UPPER BODY OPENING TO GROUND—SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP—second.

#### Luggage Compartment Dimensions

- V1 USABLE LUGGAGE CAPACITY—Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

#### Station Wagon — Third Seat Dimensions

- PD3 PASSENGER DIRECTION—THIRD.
- W85 SHOULDER ROOM—THIRD. Measured in the same manner as W5.
- W86 HIP ROOM—THIRD. Measured in the same manner as W5.
- L86 EFFECTIVE LEG ROOM—THIRD. The dimension measured along a line from the ankle pivot center to the SgRP—third plus 254 mm (10.0 in.).
- H86 EFFECTIVE HEAD ROOM—THIRD. The dimension, measured along a line 8 deg. from the SgRP—third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H89 EFFECTIVE T-POINT HEAD ROOM—THIRD. Measured in the same manner as H75.

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

##### Station Wagon — Cargo Space Dimensions

- L200** CARGO LENGTH—OPEN—FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L201** CARGO LENGTH—OPEN—SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L202** CARGO LENGTH—CLOSED—FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203** CARGO LENGTH—CLOSED—SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204** CARGO LENGTH AT BELT—FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab back panel at the height of the belt, on the zero "Y" plane.
- L205** CARGO LENGTH AT BELT—SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201** CARGO WIDTH—WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure the sheet metal.
- W203** REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204** REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205** REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.

- H201** CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane.
- H202** REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250** TAILGATE TO GROUND (CURB MASS WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- V2** STATION WAGON  
Measured in inches:  

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

$$\frac{W4 \times H201 \times L204}{109} = \text{m}^3(\text{cubic meter})$$
- V4** HIDDEN CARGO VOLUME. As specified by the manufacturer.

##### Hatchback — Cargo Space Dimensions

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

- H197** FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- L208** CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L209** CARGO LENGTH AT FLOOR—FRONT—HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- V3** HATCHBACK.  
Measured in inches:  

$$\frac{L208 + L209}{2} \times W4 \times H197$$

$$\frac{\quad}{1728} = \text{ft.}^3$$
 Measured in mm:  

$$\frac{L208 + L209}{2} \times W4 \times H197$$

$$\frac{\quad}{109} = \text{m}^3(\text{cubic meter})$$

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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