

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC( U.S. Customary)

Passenger Car  
**1986**

|   |                               |         |
|---|-------------------------------|---------|
| Manufacturer<br>Mitsubishi Motors Corporation                           | Car Line<br>Mitsubishi Cordia |         |
| Mailing Address<br>33-8, Shiba 5-chome, Minato-ku,<br>Tokyo, 108, Japan | Issued<br>3-1-1985            | Revised |

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

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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.

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Motor Vehicle Manufacturers Association  
of the United States, Inc.

# **MVMA Specifications Form**

## **Passenger Car**

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

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#### **NOTE:**

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

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Car Line Mitsubishi Cordia  
Model Year 1986 Issued 3-1-1985 Revised (●) \_\_\_\_\_

## 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) |
|---|----------------------|--|--|--|
| 2 DOOR<br>HATCHBACK<br>(FWD)              |                      | A217AMNUL F/H<br>A217AMKUL F/H<br>A217AMNXL F/H<br>A217AMKXL F/H<br>A213AMNTXL F/H | 5 (2/3)<br>5 (2/3)<br>5 (2/3)<br>5 (2/3)<br>5 (2/3)    | 35 kg<br>(77 lbs)                              |
|   |                      |  |  |  |

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

[illegible]

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Car Line Mitsubishi Cordia  
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Engine Description/Carb.  
Engine Code

| G63B (1.997 Liters) |    | G62B with Turbo (1.795 Liters) |
|---------------------|----|--------------------------------|
| MT                  | AT | MT                             |

## ENGINE - GENERAL

| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.) |         | In line<br>Front<br>Transverse |                           |
|---|---------|--------------------------------|---------------------------|
| Manufacturer  |         | Mitsubishi Motors Corporation  |                           |
| No. of cylinders  |         | 4                              |                           |
| Bore  |         | 85                             | 80.6                      |
| Stroke  |         | 88                             |                           |
| Bore spacing (C/L to C/L)   |         | 93                             |                           |
| Cylinder block material & mass kg (lbs.)  |         | Cast iron 36.5 (80.5)          | Cast iron 36.5 (80.2)     |
| Cylinder block deck height  |         | 229                            |                           |
| Deck clearance (minimum) (above or below block)   |         | 0                              |                           |
| Cylinder head material & mass kg (lbs.)   |         | Aluminum alloy 8.0 (17.6)      |                           |
| Cylinder head volume (cm <sup>3</sup> )   |         | 51.8                           |                           |
| Head gasket thickness (compressed)  |         | 1.25                           |                           |
| Minimum combustion chamber total volume (cm <sup>3</sup> )  |         | 66.6                           | 69.0                      |
| Cyl. no. system (front to rear)*  | L. Bank | N.A.                           |                           |
|   | R. Bank | N.A.                           |                           |
| Firing order  |         | 1-3-4-2                        |                           |
| Intake manifold material & mass [kg (weight, lbs.)]   |         | Aluminum alloy, 2.7 (6.0)      | Aluminum alloy, 2.8 (6.2) |
| Exhaust manifold material & mass [kg (weight, lbs.)]  |         | Cast iron, 7.0 (15.4)          | Cast iron, 4.8 (10.6)     |
| Recommended fuel (leaded, unleaded, diesel)   |         | Unleaded                       |                           |
| Fuel antiknock index (R + M)<br>2   |         | RON 91 (minimum)               |                           |
| Total dressed engine mass (wt) dry**  |         | 138.5                          | 132                       |
|   |         |                                | 147                       |

## Engine - Pistons

| Material & mass, g (weight, oz.) - piston only | Aluminum alloy |          |
|--|----------------|----------|
|  | 350 (12)       | 315 (11) |

## Engine - Camshaft

|                                   |               |  |  |
|-----------------------------------|---------------|--|--|
| Location                          |               | Center of IN. and EX. valve on cylinder-head |  |
| Material & mass kg (weight, lbs.) |               | Cast iron<br>2.8 (6.2)                       |  |
| Drive type                        | Chain / belt  | Belt   |  |
|                                   | Width / pitch | 19.1 / 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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Engine Description Carb.  
Engine Code

G63B (1.997 Liters)

G62B with Turbo (1.795 Liters)

## Engine – Valve System

|                                    |                            |         |
|------------------------------------|----------------------------|---------|
| Hydraulic lifters (std., opt., NA) |                            | Std.    |
| Valves                             | Number intake / exhaust    | 4 / 4   |
|                                    | Head O.D. intake / exhaust | 43 / 35 |

## Engine – Connecting Rods

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Material & mass [kg., (weight, lbs.)] | Drop-forged steel, 0.690 (1.52) |
|---------------------------------------|---------------------------------|

## Engine – Crankshaft

|  |       |                             |
|--|-------|-----------------------------|
| Material & mass [kg., (weight, lbs.)]        |       | 16.4 (36.2)                 |
| End thrust taken by bearing (no.)            |       | 3                           |
| Number of main bearings                      |       | 5                           |
| Seal (material, one, two piece design, etc.) | Front | Synthetic rubber, One piece |
|  | Rear  | Synthetic rubber, One piece |

## Engine – Lubrication System

|   |                    |
|---|--------------------|
| Normal oil pressure [kPa (psi) at engine rpm]   | 340 (49.3) 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.) | 3.5 (3.1)          |

## Engine – Diesel Information

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

## Engine – Intake System

|                              |      |                                       |
|------------------------------|------|---------------------------------------|
| Turbo charger - manufacturer | None | With-Mitsubishi Heavy Industries Ltd. |
| Super charger - manufacturer | None | None                                  |
| Charge cooler                | None | None                                  |

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Engine Code

|                     |     |                                |
|---------------------|-----|--------------------------------|
| G63B (1.997 Liters) |     | G62B with Turbo (1.795 Liters) |
| M/T                 | A/T |                                |

## Engine - Cooling System

|  |   |  |                    |
|--|---|--|--------------------|
| Coolant recovery system (std., opt., n.a.)     |   | With condenser tank (std.)               |                    |
| Coolant fill location (rad., bottle)           |   | Bottle                                   |                    |
| Radiator cap relief valve pressure [kPa (psi)] |   | 88 (12.8)                                |                    |
| Circulation thermostat                         | Type (choke, bypass)                              | Choke pellet                             |                    |
|  | Starts to open at °C (°F)                         | 88 (190.4)                               |                    |
| Water pump                                     | Type (centrifugal, other)                         | Centrifugal                              |                    |
|  | GPM 1000 pump rpm                                 | -  |                    |
|  | Number of pumps                                   | 1  |                    |
|  | Drive (V-belt, other)                             | V ribbed belt                            |                    |
|  | Bearing type                                      | Ball, integral shaft permanentary sealed |                    |
|  | Impeller material                                 | Cold-rolled carbon steel sheet           |                    |
|  | Housing material                                  | Aluminum die casting                     |                    |
| By-pass recirculation [type (inter., ext.)]    |   | External                                 |                    |
| Cooling system capacity                        | With heater—L(qt.)                                | 7.0 (7.4)                                |                    |
|  | With air cond.—L(qt.)                             | 7.0 (7.4)                                |                    |
|  | Opt. equipment [specify—L(qt.)]                   | -  |                    |
| Water jackets full length of cyl. (yes, no)    |   | Yes                                      |                    |
| Water all around cylinder (yes, no)            |   | No                                       | Yes                |
| Water jackets open at head face (yes, no)      |   | No                                       |                    |
| Radiator core                                  | Std., A/C, HD                                     | N.A.                                     |                    |
|  | Type (cross-flow, etc.)                           | Down-flow                                |                    |
|  | Construction (fin & tube mechanical, braze, etc.) | Tube and corrugated fin, solder          |                    |
|  | Material, mass [kg (wgt, lbs.)]                   | Copper & Brass 6.9                       | Copper & Brass 7.2 |
|  | Width   | 598                                      | 648                |
|  | Height  | 350                                      |                    |
|  | Thickness   | 32                                       |                    |
|  | Fins per inch                                     | 20                                       |                    |
| Radiator end tank material                     |   | Brass                                    |                    |
| Fan  | Std., elec., opt.                                 | Electric                                 |                    |
|  | Number of blades & type (flex, solid, material)   | 4, Polypropylene                         |                    |
|  | Diameter & projected width                        | 300                                      |                    |
|  | Ratio (fan to crankshaft rev.)                    | N.A.                                     |                    |
|  | Fan cutout type                                   | N.A.                                     |                    |
|  | Drive type (direct, remote)                       | N.A.                                     |                    |
|  | RPM at idle (elec.)                               | 2150                                     | 2080               |
|  | Motor rating (wattage) (elec.)                    | 80                                       | 120                |
|  | Motor switch (type & location) (elec.)            | Thermo type in radiator                  |                    |
|  | Switch point (temp., pressure) (elec.)            | 85°C +3°C                                |                    |
|  | Fan shroud (material)                             | Steel                                    |                    |

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Engine Description/Carb.  
Engine Code

G63B (1.997 Liters)

## 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  | Mfgr.  | Mikuni Co., Ltd. 32-35 DID TF |  |
|   | Choke (type)   | Automatic                     |  |
|   | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual                        | 650 (Up to 300 mile), 700 (After 300 mile) |
|   |  | Automatic                     | 700  |
| Idle A/F mix.   |  | Preset and sealed at factory  |  |
| Fuel injection  | Point of injection (no.)                                   | N.A.                          |  |
|   | Constant, pulse, flow                                      | N.A.                          |  |
|   | Control (electronic, mech.)                                | N.A.                          |  |
|   | System pressure [kPa (psi)]                                | N.A.                          |  |
| Intake manifold heat control (exhaust or water thermostatic or fixed) |  | Water<br>Fixed                |  |
| Air cleaner type  | Standard   | Dry, Non-woven cloth          |  |
|   | Optional   | N.A.                          |  |
| Fuel pump   | Type (elec. or mech.)                                      | Mechanical                    |  |
|   | Location (eng., tank)                                      | Engine                        |  |
|   | Pressure range [kPa (psi)]                                 | 18 to 26 (2.7 to 3.7)         |  |

## Fuel Tank

|                                   |                          |                                 |
|-----------------------------------|--------------------------|---------------------------------|
| Capacity (refill L (gallons))     |                          | 48.5 (12.8)                     |
| Location (describe)               |                          | Underneath rear floorpan        |
| Attachment                        |                          | Strap                           |
| Material & Mass [kg (weight lbs)] |                          | Steel, 9.9                      |
| Filler pipe                       | Location & material      | Left, rear quarter panel, Steel |
|                                   | Connection to tank       | Rubber hose                     |
| Fuel line (material)              |                          | Steel                           |
| Fuel hose (material)              |                          | Rubber                          |
| Return line (material)            |                          | Steel                           |
| Vapor line (material)             |                          | Steel                           |
| Extended range tank               | Opt., n.a.               | N.A.                            |
|                                   | Capacity [L (gallons)]   | N.A.                            |
|                                   | Location & material      | N.A.                            |
|                                   | Attachment               | N.A.                            |
| Auxiliary tank                    | Opt., n.a.               | N.A.                            |
|                                   | Capacity [L (gallons)]   | N.A.                            |
|                                   | Location & material      | N.A.                            |
|                                   | Attachment               | N.A.                            |
|                                   | Selector switch or valve | N.A.                            |
|                                   | Separate fill            | N.A.                            |



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Engine Description/Carb.  
Engine Code

G62B with Turbo (1.795 Liters)

## Engine – Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

|   |  |           |                                 |  |
|---|--|-----------|---------------------------------|--|
| Induction type: carburetor, fuel injection system, etc.               |  |           | Fuel injection                  |  |
| Carburetor  | Mfgr.  |           | -                               |  |
|   | Choke (type)   |           | -                               |  |
|   | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual    | -                               |  |
|   |  |           | -                               |  |
|   |  | Automatic | -                               |  |
|   |  | -         |                                 |  |
| Idle A/F mix.   |  |           | 14.7                            |  |
| Fuel injection  | Point of injection (no.)                                   |           | On throttle valve (two)         |  |
|   | Constant, pulse, flow                                      |           | 21.4 mm <sup>3</sup> / 2.5 msec |  |
|   | Control (electronic, mech.)                                |           | Electronic                      |  |
|   | System pressure [kPa (psi)]                                |           | 254 Kpa                         |  |
| Intake manifold heat control (exhaust or water thermostatic or fixed) |  |           | Water, fixed                    |  |
| Air cleaner type  | Standard   |           | Dry, None-woven cloth           |  |
|   | Optional   |           | N.A.                            |  |
| Fuel pump   | Type (elec. or mech.)                                      |           | Electric                        |  |
|   | Location (eng., tank)                                      |           | Near by fuel Tank               |  |
|   | Pressure range [kPa (psi)]                                 |           | 620 to 800 (90 to 120)          |  |

## Fuel Tank

|                                   |                          |                                 |
|-----------------------------------|--------------------------|---------------------------------|
| Capacity [refill L (gallons)]     |                          | 48.5 (12.8)                     |
| Location (describe)               |                          | Underneath rear floorpan        |
| Attachment                        |                          | Strap                           |
| Material & Mass [kg (weight lbs)] |                          | Steel, 10.1                     |
| Filler pipe                       | Location & material      | Left, rear quarter panel, Steel |
|                                   | Connection to tank       | Rubber hose                     |
| Fuel line (material)              |                          | Steel                           |
| Fuel hose (material)              |                          | Rubber                          |
| Return line (material)            |                          | Steel                           |
| Vapor line (material)             |                          | Steel                           |
| Extended range tank               | Opt., n.a.               | N.A.                            |
|                                   | Capacity [L (gallons)]   | N.A.                            |
|                                   | Location & material      | N.A.                            |
|                                   | Attachment               | N.A.                            |
| Auxiliary tank                    | Opt., n.a.               | N.A.                            |
|                                   | Capacity [L (gallons)]   | N.A.                            |
|                                   | Location & material      | N.A.                            |
|                                   | Attachment               | N.A.                            |
|                                   | Selector switch or valve | N.A.                            |
|                                   | Separate fill            | N.A.                            |

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Engine Description/Carb.  
Engine Code

G63B (1.997 Liters)

## Vehicle Emission Control

|                              |  |  |  |
|------------------------------|--|--|--|
| Exhaust Emission Control     | Type (air injection, engine modifications, other)        |  | Three-way catalyst with feedback control.<br>Exhaust gas recirculation and Air induction |
|                              | Air Injection  | Pump or pulse  | Pulse  |
|                              |  | Driven by  | N.A.   |
|                              |  | Air distribution (head, manifold, etc.)                          | N.A.   |
|                              |  | Point of entry   | N.A.   |
|                              | 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   | Three-way  |
|                              |  | Number of  | 2  |
|                              |  | Location(s)  | In exhaust manifold & Under floor  |
|                              |  | 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                                  |  | Canister   |
| Electronic system            | Closed loop (yes/no)                                     |  | Yes  |
|                              | Open loop (yes/no)                                       |  | Yes  |

## Engine - Exhaust System

A217

|  |                                   |  |
|--|-----------------------------------|--|
| Type (single, single with cross-over, dual, other)   |                                   | Single   |
| Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)] |                                   | One (Reverse flow) Aluminized steel 6.2 kg (13.7 lb) |
| Resonator no. & type   |                                   | None   |
| Exhaust pipe   | Branch o.d., wall thickness       | -  |
|  | Main o.d., wall thickness         | 48.6 x 2.0 (Front) 48.6 x (rear) mm                  |
|  | Material & Mass [kg (weight lbs)] | Aluminized steel tube, 4.1 kg (9.0 lb)               |
| Inter-mediate pipe   | o.d. & wall thickness             | 42.7 x 1.2 mm  |
|  | Material & Mass [kg (weight lbs)] | Aluminized steel tube, 1.8 kg (4.0 lb)               |
| Tail pipe  | o.d. & wall thickness             | 42.7 x 1.2 mm  |
|  | Material & Mass [kg (weight lbs)] | Aluminized steel tube, 0.4 kg (0.9 lb)               |

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Engine Description/Carb.  
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G62B with Turbo (1.795 Liters)

## Vehicle Emission Control

|   |   |  |  |
|---|---|--|--|
| Exhaust<br>Emission<br>Control          | Type (air injection, engine modifications, other)           |  | Three-way Catalyst with feedback control.<br>Exhaust gas recirculation and air induction |
|   | Air<br>Injection  | Pump or pulse  | Pulse  |
|   |   | Driven by  | N.A.   |
|   |   | Air distribution<br>(head, manifold, etc.)                             | N.A.   |
|   |   | Point of entry   | N.A.   |
|   | Exhaust<br>Gas<br>Recircula-<br>tion                        | Type (controlled flow,<br>open orifice, other)                         | Controlled flow  |
|   |   | Exhaust source   | Exhaust Port No. 2   |
|   |   | Point of exhaust injection<br>(spacer, carburetor,<br>manifold, other) | Intake manifold  |
|   | Catalytic<br>Converter                                      | Type   | Three-way  |
|   |   | Number of  | 2  |
|   |   | Location(s)  | In exhaust manifold & Under floor  |
|   |   | Volume [L (in <sup>3</sup> )]  | 1.0 (61) + 1.0 (61)  |
| Substrate type                          |   | Monolith   |  |
| Crankcase<br>Emission<br>Control        | Type (ventilates to atmosphere,<br>induction system, other) |  | Induction system   |
|   | Energy source (manifold<br>vacuum, carburetor, other)       |  | Intake manifold vacuum   |
|   | Discharges (to intake<br>manifold, other)                   |  | To intake manifold   |
|   | Air inlet (breather cap, other)                             |  | Air cleaner  |
| Evapora-<br>tive<br>Emission<br>Control | Vapor vented to<br>(crankcase,<br>canister, other)          | Fuel tank  | Canister   |
|   |   | Carburetor   | -  |
|   | Vapor storage provision                                     |  | Canister   |
| Electronic<br>system                    | Closed loop (yes/no)  |  | Yes  |
|   | Open loop (yes/no)  |  | Yes  |

## Engine - Exhaust System

A213 T/C

|   |                                   |  |
|---|-----------------------------------|--|
| Type (single, single with cross-over,<br>dual, other)   |                                   | Single   |
| Muffler no. & type (reverse flow, straight thru,<br>separate resonator) Material & Mass [kg (weight lbs)] |                                   | One (Reverse flow) Aluminized steel 7.5 kg (16.5 lb) |
| Resonator no. & type  |                                   | None   |
| Exhaust<br>pipe   | Branch o.d., wall thickness       | -  |
|   | Main o.d., wall thickness         | 5.4 x 1.6 (Front), 54 x 1.2 (Rear) mm                |
|   | Material & Mass [kg (weight lbs)] | Aluminized steel tube, 3.4 kg (7.5 lb)               |
| Inter-<br>mediate<br>pipe   | o.d. & wall thickness             | 54 x 1.2 mm  |
|   | Material & Mass [kg (weight lbs)] | Aluminized steel tube, 2.2 kg (4.9 lb)               |
| Tail<br>pipe  | o.d. & wall thickness             | 54 x 1.2 mm  |
|   | Material & Mass [kg (weight lbs)] | Aluminized steel tube, 0.4 kg (0.9 lb)               |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mitsubishi Cordia  
Model Year 1986 Issued 3-1-1985 Revised (•) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

G63B (1.997 Liters)

G62B with Turbo  
(1.795 Liters)

## 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.)      | Std. (MMC) |
| Manual overdrive (std., opt., n.a.) (mfr.)    | N.A.       |
| Automatic (std., opt., n.a.) (mfr.)           | Std. (MMC) |
| Automatic overdrive (std., opt., n.a.) (mfr.) | N.A.       |

## Manual Transmission/Transaxle

|                                     |                      |               |  |
|-------------------------------------|----------------------|---------------|--|
| Number of forward speeds            |                      | 5             |  |
| Transmission ratios                 | In first             | 4.226         |  |
|                                     | In second            | 2.365         |  |
|                                     | In third             | 1.467         |  |
|                                     | In fourth            | 1.105         |  |
|                                     | In fifth             | 0.855         |  |
|                                     | In overdrive         |               |  |
|                                     | In reverse           | 4.109         |  |
| Synchronous meshing (specify gears) |                      | 1, 2, 3, 4, 5 |  |
| Shift lever location                |                      | Floor         |  |
| Lubricant                           | Capacity [L (pt.)]   |               | 2.3 (4.9)                                    |
|                                     | Type recommended     |               | Multipurpose gear oil conforming to API GL-4 |
|                                     | SAE viscosity number | Summer        | SAE 75W-85W                                  |
|                                     |                      | Winter        | SAE 75W-85W                                  |
|                                     |                      | Extreme cold  | SAE 75W-85W                                  |

## Clutch (Manual Transmission)

|  |   |   |
|--|---|---|
| Make, type, engagement (describe) -<br>(hydraulic, cable, rod) | Aisin Seiki Co., Ltd. dry single plate<br>(Cable)     | Aisin Seiki Co., Ltd. dry single plate<br>(Hydraulic) |
| Assist (yes, no / percent)                                     | NO  |   |
| Type pressure plate springs                                    | Diaphragm   |   |
| Total spring load [N (lb.)]                                    | 3481 (783)  | 4168 (937)  |
| No. of clutch driven discs                                     | One   |   |
| Clutch facing  | Material  | Woven Asbestos  |
|  | Manufacturer  | Hitachi Chemical Co., Ltd.                            |
|  | Part number   | None  |
|  | Rivets plate  | 16  |
|  | Rivet size  | 4 (mm)  |
|  | Outside & inside dia.                                 | 200x130 (mm)  |
|  | Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )] | 363 (56.3)  |
|  | Thickness   | 3.5 (mm)  |
|  | Engagement cushion method                             | Flat-wave spring                                      |
| Release bearing  | Type & method of lubrication                          | Ball bearing, permanently lubricated                  |
| Torsional damping  | Method: springs, friction material                    | Damper rubbers-coil springs and friction washers      |
|  |   | Damper rubbers and friction washers                   |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mitsubishi Cordia  
Model Year 1986 Issued 3-1-1985 Revised (•) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

G63B (1.997 Liters)

## Automatic Transmission/Transaxle

|  |                               |   |                                |
|--|-------------------------------|---|--------------------------------|
| Trade name   |                               | Mitsubishi Motors Corp. KM172   |                                |
| Type and special features (describe)                         |                               | Torque converter with automatically operated planetary gear transmission.<br>Electronic control KM172 |                                |
| Selector   | Location                      | Lever : Console mounted   |                                |
|  | Ltr./No. designation          | P. R. N. D. 2. L / 6  |                                |
| Gear ratios  | R                             | 2.176   |                                |
|  | D                             | 2.846, 1.581, 1.000   |                                |
|  | L <sub>3</sub>                | -   |                                |
|  | L <sub>2</sub>                | 2.846, 1.581  |                                |
|  | L <sub>1</sub>                | 2.846   |                                |
| Max. upshift speed - drive range [km/h (mph)]                |                               | 1-2 55 (34), 2-3 103 (65)   |                                |
| Max. kickdown speed - drive range [km/h (mph)]               |                               | 2-1 47 (29), 3-2 96 (60)  |                                |
| Min. overdrive speed [km/h (mph)]                            |                               | -   |                                |
| Torque converter   | Number of elements            | Three   |                                |
|  | Max. ratio at stall           | 2.17 : 1  |                                |
|  | Type of cooling (air, liquid) | Liquid  |                                |
|  | Nominal diameter              | 240   |                                |
| Lubricant  | Capacity [refill L (pt.)]     | 5.8 (12.3)  |                                |
|  | Type Recommended              | DEXRON II OR DEXRON automatic trans. fluid  |                                |
| Oil cooler (std., opt., NA, internal, external, air, liquid) |                               | Std. external, liquid   |                                |
| Axle or Front Wheel Drive Unit                               |                               | G63B (1.997 Liters)   | B62B with Turbo (1.795 Liters) |
| Type (front, rear)   |                               | Front   |                                |
| Description  |                               | Separable   |                                |
| Limited slip differential (type)                             |                               | -   |                                |
| Drive pinion offset  |                               | -   |                                |
| Drive pinion (type)  |                               | -   |                                |
| No. of differential pinions                                  |                               | 2   |                                |
| Pinion / differential adjustment (shim, other)               |                               | Shim  |                                |
| Pinion / differential bearing adjustment (shim, other)       |                               | Shim  |                                |
| Driving wheel bearing (type)                                 |                               | Tapered roller  |                                |
| Lubricant  | Capacity [L (pt.)]            | Refer to transmission spec.   |                                |
|  | Type recommended              | Refer to transmission spec.   |                                |
|  | SAE viscosity number          | Summer  | Refer to transmission spec.    |
|  |                               | Winter  | Refer to transmission spec.    |
|  |                               | Extreme cold  | Refer to transmission spec.    |

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

| Axle ratio (or overall top gear ratio) |                     | 5 M/T | Automatic | 5 M/T |
|--|---------------------|-------|-----------|-------|
| No. of teeth                           | Pinion              | 16    | 16        | 15    |
|  | Ring gear or gear   | 51    | 51        | 52    |
| Ring gear o.d.                         |                     | 171.0 | 171.0     | 174.2 |
| Transaxle                              | Transfer gear ratio | -     | 1.150     | -     |
|  | Final drive ratio   | 3.187 | 3.187     | 3.466 |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

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Model Year 1986 Issued 3-1-1985 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

G63B (1.997 Liters)

G62B with Turbo (1.795 Liters)

## Axle Shafts – Front Wheel Drive

|   |                              |                                 |                        |
|---|------------------------------|---------------------------------|------------------------|
| Number used   |                              | two                             |                        |
| Type (straight, solid bar, tubular, etc.)           |                              | Left                            | Straight bar           |
|   |                              | Right                           | Straight bar           |
| Outer diam. x length* x wall thickness              | Manual transmission          | Left                            | 27 x 690 32 x 687      |
|   |                              | Right                           | 23.2 x 351 24 x 345    |
|   | Automatic transmission       | Left                            | 27 x 690 32 x 687      |
|   |                              | Right                           | 23.2 x 351 24 x 345    |
|   | Optional transmission        | Left                            | -                      |
|   |                              | Right                           | -                      |
| Slip yoke   | Type                         |                                 | None                   |
|   | Number of teeth              |                                 | -                      |
|   | Spline o.d.                  |                                 | -                      |
| Universal joints                                    | Make and mfg. no.            | Inner                           | Toyo Bearing Co., Ltd. |
|   |                              | Outer                           | Toyo Bearing Co., Ltd. |
|   | Number used                  |                                 | two x two              |
|   | Type, size, plunge           | Inner                           | C.V. Joint             |
|   |                              | Outer                           | C.V. Joint             |
|   | Attach (u-bolt, clamp, etc.) |                                 | -                      |
|   | Bearing                      | Type (plain, anti-friction)     | -                      |
|   |                              | Lubrication (fitting, prepack)  | -                      |
| Drive taken through (torque tube, arms or springs)  |                              | Lower Arm, Tension Rod, & Strut |                        |
| Torque taken through (torque tube, arms or springs) |                              | Lower Arm, Tension Rod, & Strut |                        |

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mitsubishi Cordia  
Model Year 1986 Issued 3-1-1985 Revised (●) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

| A217A   |         | A213A    |
|---------|---------|----------|
| MNULF/H | MKULF/H | MNTXLF/H |
| MNXLF/H | MKXLF/H |          |

## Suspension - General

|                                    |                         |  |
|------------------------------------|-------------------------|--|
| Car leveling                       | Std. opt., n.a.         | N.A.   |
|                                    | Type (air, hyd., etc.)  | N.A.   |
|                                    | Manual/auto. controlled | N.A.   |
| Provision for brake dip control    |                         | N.A.   |
| Provision for accel. squat control |                         | N.A.   |
| Provisions for car jacking         |                         | N.A.   |
| Shock absorber (front & rear)      | Type                    | Front: Strut type Rear: Telescopic type                          |
|                                    | Make                    | Front: Kayaba Industry Co., Ltd. Rear: Kayaba Industry Co., Ltd. |
|                                    | Piston diameter         | Front: 30 Rear: 25   |
|                                    | Rod diameter            | Front: 22 Rear: 12.5   |

## Suspension - Front

|                                |   |  |               |
|--------------------------------|---|--|---------------|
| Type and description           |   | Independent strut type                   |               |
| Drive and torque taken through |   | Yes                                      |               |
| Travel                         | Full jounce   | 110                                      | (mm)          |
|                                | Full rebound  | 70                                       | (mm)          |
| Spring                         | Type (coil, leaf, other) & material                 | Coil (Spring steel, Specified in S.A.E.) |               |
|                                | Insulators (type & material)                        | Cylindrical, Rubber                      |               |
|                                | Size (coil design height & i.d., bar length x dia.) | 351, 127.5                               | 359, 127.5    |
|                                | Spring rate [N/mm (lb./in.)]                        | 19.6 (112)                               |               |
|                                | Rate at wheel [N/mm (lb./in.)]                      | 17.1 (98)                                |               |
| Stabilizer                     | Type (link, linkless, frameless)                    | Link                                     |               |
|                                | Material & bar diameter                             | SUP6, 22                                 | SUP6, 26 (mm) |

## Suspension - Rear

|                                |   |  |      |
|--------------------------------|---|--|------|
| Type and description           |   | Independent full trailing arm            |      |
| Drive and torque taken through |   | N.A.                                     |      |
| Travel                         | Full jounce   | 130                                      | (mm) |
|                                | Full rebound  | 50                                       | (mm) |
| Spring                         | Type (coil, leaf, other) & material                                 | Coil (Spring steel, Specified in S.A.E.) |      |
|                                | Size (length x width, coil design height & i.d., bar length & dia.) | 307 x 98                                 | (mm) |
|                                | Spring rate [N/mm (lb./in.)]  | 19.6 (112)                               |      |
|                                | Rate at wheel [N/mm (lb./in.)]                                      | 19.6 (112)                               |      |
|                                | Insulators (type & material)  | Cylindrical, Rubber                      |      |
|                                | if leaf   | No. of leaves                            | -    |
|                                |   | Shackle (comp. or tens.)                 | -    |
| Stabilizer                     | Type (link, linkless, frameless)                                    | Linkless                                 |      |
|                                | Material & bar diameter   | SUP6, 14.5                               | (mm) |
| Track bar (type)               |   | -  |      |

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Body Type And/Or  
Engine Displacement

|     |         |
|-----|---------|
| 2.0 | 1.8 T/C |
|-----|---------|

## Brakes - Service

|  |   |                                 |   |
|--|---|---------------------------------|---|
| Description  |   |                                 |   |
| Brake type<br>(std., opt., n.a.)                                     | Front (disc or drum)                      |                                 | Disc  |
|  | Rear (disc or drum)                       |                                 | Drum  |
| Self-adjusting (std., opt., n.a.)                                    |   |                                 | Std.  |
| Special<br>valving   | Type (proportion, delay, metering, other) |                                 | Proportion valve  |
| Power brake (std., opt., n.a.)                                       |   |                                 | Std.  |
| Booster type (remote, integral, vac., hyd., etc.)                    |   |                                 | Integral  |
| Vacuum source (inline, pump, etc.)                                   |   |                                 | Inline  |
| 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: 200 (31.0) / R: 272 (42.2)                                   |
| Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]**(F/R)       |   |                                 | F: 206 (31.9) / R: 272 (42.2)                                   |
| Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]*** (F/R)            |   |                                 | F: 1140 (177) / R: 446 (69.2)   F: 1281 (198.6) / R: 446 (69.2) |
| Rotor  | Outerworking diameter                     | F/R                             | F: 240 (mm) / R: -   F: 264 (mm) / R: -                         |
|  | Inner working diameter                    | F/R                             | F: 146 (mm) / R: -   F: 169 (mm) / R: -                         |
|  | Thickness                                 | F/R                             | F: 18 (mm) / R: -   F: 24 (mm) / R: -                           |
|  | Material & type (vented/solid)            | F/R                             | F: Cast iron vented / R: -                                      |
| Drum   | Diameter & width                          | F/R                             | F: - / R: 203 & 42 (mm)   |
|  | Type and material-                        | F/R                             | F: - R: Cast iron   |
| Wheel cylinder bore  |   |                                 | F: 53.97 (mm) / R: 17.46 (mm)                                   |
| Master cylinder  | Bore/stroke                               | F/R                             | Bore: 22.22 (mm) / Stroke: Primary: 13 (mm), secondary: 15 (mm) |
| Pedal arc ratio  |   |                                 | 4.5   |
| Line pressure at 445 N (100 lb.) pedal load (kPa (psi))              |   |                                 | 10826 (1570)  |
| Lining clearance   |   |                                 | F: No major adjustment required / R: 0.11 0.34 (Self adjusting) |
| Brake<br>lining  | Front<br>wheel                            | Bonded or riveted (rivets/seg.) | Bonded  |
|  |   | Rivet size                      | -   |
|  |   | Manufacturer                    | SUMITOMO Electric Industries LTD.                               |
|  |   | Lining code*****                | SUMITOMO M2227 FF   |
|  |   | Material                        | Molding   |
|  |   | **** Primary or out-board       | 116 x 43.1 x 10.5 (mm)  |
|  |   | Size Secondary or in-board      | 116 x 43.1 x 10.5 (mm)  |
|  |   | Shoe thickness (no lining)      | 5.0 (mm)  |
|  | Rear<br>wheel                             | Bonded or riveted (rivets/seg.) | Bonded  |
|  |   | Manufacturer                    | AKEBONO Brake Industry CO., LTD.                                |
|  |   | Lining Code*****                | AKP330 FF   |
|  |   | Material                        | Molding   |
|  |   | **** Primary or out-board       | 194 x 35 x 4.4 (mm)   |
|  |   | Size Secondary or in-board      | 194 x 35 x 4.4 (mm)   |
|  | Shoe thickness (no lining)                | 1.6 (mm)                        |   |

\*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. 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.



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Model Year 1986 Issued 3-1-1985 Revised (●) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

|       |       |
|-------|-------|
| A217A | A213A |
|-------|-------|

## Tires And Wheels (Standard)

|        |   |                     |                      |                             |
|--------|---|---------------------|----------------------|-----------------------------|
| Tires  | Size (load range, ply)                                      |                     | P185/70R13, Std Load | 195/60R14 85H, LOAD RANGE C |
|        | Type (bias, radial, etc.)                                   |                     | Radial               | Radial                      |
|        | Inflation pressure (cold) for recommended max. vehicle load | Front [kPa (psi)]   | 170 (24)             |                             |
|        |   | Rear [kPa (psi)]    | 170 (24)             |                             |
|        | Rev./mile—at 70 km/h (45 mph)                               |                     | 888                  | 900                         |
| Wheels | Type & material   |                     | Disc, Steel          | Disc, Aluminum              |
|        | Rim (size & flange type)                                    |                     | 5-Jx13               | 5 1/2-JJx14                 |
|        | Wheel offset  |                     | 46                   |                             |
|        | Attachment  | Type (bolt or stud) | Stud                 |                             |
|        |   | Circle diameter     | 114.3                |                             |
| Spare  |   |                     | 4, M12x1.5 (Metric)  |                             |
|        | Tire and wheel (same, if other describe)                    |                     | T115/70D14, 4Tx14    | T125/70D15, 4Tx15           |
|        | Storage position & location (describe)                      |                     | On cargo floor       |                             |

## Tires And Wheels (Optional)

|  |                |
|--|----------------|
| Size (load range, ply)   | -              |
| Type (bias, radial, etc.)  | -              |
| Wheel (type & material)  | Disc, Aluminum |
| Rim (size, flange type and offset)   | 5-Jx13, 46     |
| 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)   | -              |
| 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)              | N.A.                    |
|                                 | Drum diameter                            | N.A.                    |
|                                 | Lining size (length x width x thickness) | N.A.                    |

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METRIC (U.S. Customary)

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Body Type And/Or  
Engine Displacement

|  |
|--|
|  |
|--|

## 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 (W9) SAE J1100                  | Manual                                    |                        | 386                             |      |  |
|  | Power                                     |                        | 386                             |      |  |
| Turning diameter m (ft.)                       | Outside front                             | Wall to wall (l. & r.) | 10.8 (35.4)                     |      |  |
|  |   | Curb to curb (l. & r.) | 9.8 (32.2)                      |      |  |
|  | Inside rear                               | Wall to wall (l. & r.) | 5.4 (17.7)                      |      |  |
|  |   | Curb to curb (l. & r.) | 5.2 (17.1)                      |      |  |
| Scrub Radius*                                  |   |                        | -                               |      |  |
| Manual   | Gear                                      | Type                   | N.A.                            |      |  |
|  |   | Make                   | N.A.                            |      |  |
|  |   | Ratios                 | Gear                            | N.A. |  |
|  |   |                        | Overall                         | N.A. |  |
|  | No. wheel turns (stop to stop)            |                        | N.A.                            |      |  |
| Power  | Type (coaxial, linkage, etc.)             |                        | Integral                        |      |  |
|  | Make                                      |                        | Koyo Seiko Co. Ltd.             |      |  |
|  | Gear                                      | Type                   | Rack & pinion                   |      |  |
|  |   | Ratios                 | Gear                            | -    |  |
|  |   |                        | Overall                         | 16.8 |  |
|  | Pump (drive)                              |                        | V-belt                          |      |  |
|  | No. wheel turns (stop to stop)            |                        | 2.9                             |      |  |
| Linkage  | Type                                      |                        | Trailing, equal length tie rods |      |  |
|  | Location (front or rear of wheels, other) |                        | Rear                            |      |  |
|  | Tie rods (one or two)                     |                        | Two                             |      |  |
| Steering axis                                  | Inclination at camber (deg.)              |                        | 13° 16'                         |      |  |
|  | Bearings (type)                           | Upper                  | Ball bearing                    |      |  |
|  |   | Lower                  | Ball joint                      |      |  |
|  |   | Thrust                 | N.A.                            |      |  |
| Steering spindle & joint type                  |   |                        | Ball                            |      |  |
| Wheel spindle                                  | Diameter                                  | Inner bearing          | 38.100                          |      |  |
|  |   | Outer bearing          | 38.100                          |      |  |
|  | Thread (size)                             |                        | M22x1.5 (Metric)                |      |  |
|  | Bearing (type)                            |                        | Tapered roller                  |      |  |

\*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

| A217A   |          | A213A    |
|---------|----------|----------|
| MNULF/H | MNXL F/H | NTXL F/H |
| MKULF/H | MXL F/H  |          |

## Wheel Alignment

|                                |                          |                                 |                              |
|--------------------------------|--------------------------|---------------------------------|------------------------------|
| Front wheel at curb mass (wt.) | Service checking         | Caster (deg.)                   | 48' ± 30'                    |
|                                |                          | Camber (deg.)                   | 25' ± 30'                    |
|                                |                          | Toe-in [outside track-mm (in.)] | 3 to -3 (0.118 to -0.118)    |
|                                | Service reset*           | Caster                          | -                            |
|                                |                          | Camber                          | -                            |
|                                |                          | Toe-in                          | -                            |
|                                | Periodic M.V. inspection | Caster                          | -                            |
|                                |                          | Camber                          | -                            |
|                                |                          | Toe-in                          | -                            |
| Rear wheel at curb mass (wt.)  | Service checking         | Camber (deg.)                   | -35' ± 35'                   |
|                                |                          | Toe-in [outside track-mm (in.)] | 1.5 ± 4.5 mm (0.059 ± 0.177) |
|                                | Service reset*           | Camber                          | -                            |
|                                |                          | Toe-in                          | -                            |
|                                | Periodic M.V. inspection | Camber                          | -                            |
|                                |                          | Toe-in                          | -                            |

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

## Electrical - Instruments and Equipment

|                           |  |   |                                |                         |
|---------------------------|--|---|--------------------------------|-------------------------|
| Speed-ometer              | Type   | In-line driving pointer   | digital liquid crystal display | In-line Driving pointer |
|                           | Trip odometer (std., opt., n.a.)                 | Standard with combination meter   |                                |                         |
| EGR maintenance indicator |  | N.A.  |                                |                         |
| Charge indicator          | Type   | Telltale  |                                |                         |
|                           | Warning device                                   | Light   |                                |                         |
| Temperature indicator     | Type   | Cross coil  | Lcd                            | Cross coil              |
|                           | Warning device                                   | Driving pointer   | Segment                        | Driving pointer         |
| Oil pressure indicator    | Type   | Electric thermal or Pressure switch                                       |                                |                         |
|                           | Warning device                                   | Driving pointer or Light  |                                |                         |
| Fuel indicator            | Type   | Cross coil  | Lcd                            | Cross coil              |
|                           | Warning device                                   | Driving pointer   | Bargraph                       | Driving pointer         |
| Wind-shield wiper         | Type (standard)                                  | Electric two speed with variable intermittent                             |                                |                         |
|                           | Type (optional)                                  | Electric (rear windshield)  |                                |                         |
|                           | Blade length                                     | 450   | (mm)                           |                         |
|                           | Swept area [cm <sup>2</sup> (in. <sup>2</sup> )] | 5017 (777)  |                                |                         |
| Wind-shield washer        | Type (standard)                                  | Electric  |                                |                         |
|                           | Type (optional)                                  | Electric (rear windshield)  |                                |                         |
|                           | Fluid level indicator                            | N.A.  |                                |                         |
| Horn                      | Type   | 90 diameter   |                                |                         |
|                           | Number used                                      | two   |                                |                         |
| Other                     |  | Brake system and parking brake warning light, fasten belts warning light. |                                |                         |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mitsubishi Cordia  
Model Year 1986 Issued 3-1-1985 Revised (•) \_\_\_\_\_

Engine Description: Carb.  
Engine Code

G63B (1.997 Liters)

G62B with Turbo (1.795 Liters)

## Electrical – Supply System

|                         |                          |   |  |
|-------------------------|--------------------------|---|--|
| Battery                 | Make                     | YUASA BATTERY CO., LTD. or JAPAN STORAGE BATTERY CO., LTD. or MATSUSHITA BATTERY IND. CO., LTD. or SHIN-KOBE ELECTRIC MACHINERY CO., LTD. |  |
|                         | Model, std., (opt.)      | NX100-S6(S)-MF  |  |
|                         | Voltage                  | 12  |  |
|                         | Amps at 0°F cold crank   | 420   |  |
|                         | Minutes-reserve capacity | 75  |  |
|                         | Amp hrs. - 20 hr. rate   | 45  |  |
|                         | Location                 | Front, right side of engine compartment   |  |
| Generator or alternator | Type and rating          | 65  |  |
|                         | Ratio (alt. crank/rev.)  | 2.71 : 1  |  |
|                         | Optional (type & rating) | N.A.  |  |
| 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    |

## Electrical – Ignition System

|             |                                  |   |                         |
|-------------|----------------------------------|---|-------------------------|
| Type        | Electronic (std., opt., n.a.)    | Std.  |                         |
|             | Other (specify)                  | -   |                         |
| Coil        | Make                             | Diamond Electric Manufacturing Co., Ltd.                                  |                         |
|             | Model                            | E-064   | LB-119                  |
|             | Current                          | Engine stopped - A  | 0                       |
|             |                                  | Engine idling - A   | 1.4                     |
| Spark plug  | Make                             | NGK Spark Plug Co., Ltd. or Champion Spark Plug Co., Ltd. or NIPPON DENSO |                         |
|             | Model                            | BUR6EA-11 or RY9Y or W20EPR-S11   | BUR7EA-11 or W22EPR-S11 |
|             | Thread (mm)                      | 14  |                         |
|             | Tightening torque (N-m (lb. ft)) | 20 to 30 (15 to 22)   |                         |
|             | Gap                              | 1.0 to 1.1  |                         |
|             | Number per cylinder              | 1   |                         |
| Distributor | Make                             | Mitsubishi Electric Corp.   |                         |
|             | Model                            | -   |                         |

## Electrical – Suppression

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

CarLine Mitsubishi Cordia  
Model Year 1986 Issued 3-1-1985 Revised (•) \_\_\_\_\_

Body Type

## Body

|                               |  |
|-------------------------------|--|
| Structure                     | Monocock body  |
| Bumper system<br>front - rear | Impact absorbing system<br>Facia (Polyurethane)<br>Energy absorber (Polyurethane)<br>Reinforcement (Steel) |
| Anti-corrosion treatment      | Cathodic ED paint<br>Extend use of galvanealed steel<br>Wax injection<br>Stone chipping resistance coating |

## Body - Miscellaneous Information

|  |   |                             |
|--|---|-----------------------------|
| Type of finish (lacquer, enamel, other)                            |   | Heat setting acrylic enamel |
| Hood   | Hinge location (front, rear)                  | Front                       |
|  | Type (counterbalance, prop)                   | -                           |
|  | Release control (internal, external)          | Internal                    |
| Trunk lid  | Type (counterbalance, other)                  | -                           |
|  | Internal release control (elec., mech., n.a.) | -                           |
| Hatch-back lid   | Type (counterbalance, other)                  | Telescopic gas struts       |
|  | Internal release control (elec., mech., n.a.) | Mech                        |
|  |   |                             |
|  |   |                             |
|  |   |                             |
| Vent window control (crank, friction, pivot, power)                | Front   |                             |
|  | Rear  |                             |
| Seat cushion type<br>(e.g., 60/40, bucket, bench, wire, foam etc.) | Front   | Bucket, SPRING              |
|  | Rear  | Bench, foam                 |
|  | 3rd seat                                      | -                           |
| Seat back type<br>(e.g., 60/40, bucket, bench, wire, foam etc.)    | Front   | Bucket, SPRING              |
|  | Rear  | 50/50 Bench, foam           |
|  | 3rd seat                                      |                             |
|  |   |                             |

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

CarLine Mitsubishi Cordia  
 Model Year 1986 Issued 3-1-1985 Revised (•) \_\_\_\_\_

Body Type

**Restraint System**

|                         |                      |   |
|-------------------------|----------------------|---|
| Active restraint system | Standard/optional    | Standard  |
|                         | Type and description | outboard: 2 point seat belt with ALR<br>Front: 3 point seat belt with ELR; Rear: center: 2 point seat belt with manual adjusting device |
|                         | Location             | Front, Rear   |
| 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) |  |
|---|--|

| Glass   | SAE Ref. No. |                        |
|---|--------------|------------------------|
| Windshield glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]           | S1           | 7410 (1150)            |
| Side glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )] - total 2-sides | S2           | 8730 (1350)            |
| Backlight glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]            | S3           | 6850 (1060)            |
| Total glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]                | S4           | 22990 (3560)           |
| Windshield glass (type)   |              | Curved-Laminated plate |
| Side glass (type)   |              | Curved-Tempered plate  |
| Backlight glass (type)  |              | Curved-Tempered plate  |

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

Car Line Mitsubishi Cordia  
 Model Year 1986 Issued 3-1-1985 Revised (●) \_\_\_\_\_

Body Type

| A217A |      | A213A |
|-------|------|-------|
| MNUL  | MNXL | MNTXL |
| MKUL  | MKXL |       |

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

|   |  |   |                            |                      |
|---|--|---|----------------------------|----------------------|
| Air conditioning (manual, auto. temp control) |  | Opt. (Manual temp control)  |                            |                      |
| Clock (digital, analog)                       |  | Std. (digital)  |                            |                      |
| Compass / thermometer                         |  | N.A.  |                            |                      |
| Console (floor, overhead)                     |  | Std. (floor)  |                            |                      |
| Defroster, elec. backlight                    |  | Std.  |                            |                      |
| Electronic                                    | Diagnostic warning (integrated, individual)  | N.A.  |                            | Integrated           |
|   | Instrument cluster (list instruments)  | Std. (Speedometer, fuel, Water-temp, volt, oil-press, turbo)  |                            |                      |
|   | Keyless entry  | N.A.  |                            |                      |
|   | Tripminder (avg. spd., fuel)   | N.A.  |                            |                      |
|   | Voice alert (list items)   | N.A.  |                            |                      |
|   | Other  | -   |                            |                      |
| Fuel door lock (remote, key, electric)        |  | Remote & Key  |                            |                      |
| Lamps   | Auto head on / off delay, dimming  | N.A.  |                            |                      |
|   | Cornering  | N.A.  |                            |                      |
|   | Courtesy (map, reading)  | Room  |                            |                      |
|   | Door lock, ignition  | N.A.  |                            |                      |
|   | Engine compartment   | N.A.  |                            |                      |
|   | Fog  | N.A.  |                            |                      |
|   | Glove compartment  | N.A.  |                            |                      |
|   | Trunk  | Std.  |                            |                      |
|   | Other  | -   |                            |                      |
| Mirrors                                       | Day/night (auto. man.)   | Std. (Man.)   |                            |                      |
|   | L.H. (remote, power, heated)   | Remote  | Power                      | Remote               |
|   | R. H. (convex, remote, power, heated)  | Convex, Remote  | Convex, Power              | Convex, Remote       |
|   | Visor vanity (RH / LH, illuminated)  | RH  |                            |                      |
| Parking brake-auto release (warning light)    |  | N.A.  |                            |                      |
| Power equipment                               | Door locks / deck lid - specify  | N.A.  |                            |                      |
|   | Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline) | N.A.  |                            |                      |
|   | Side windows   | N.A.  | Std.                       | N.A.                 |
|   | Vent windows   | N.A.  |                            |                      |
|   | Rear window  | N.A.  |                            |                      |
|   |  |   |                            |                      |
| Radio systems                                 | Antenna (location, whip, w/shield, power)  | Whip on rear quarter  | Power whip on rear quarter | Whip on rear quarter |
|   | AM, FM, stereo, tape, CB   | Std. (AM/FM mpx, & cassette player) *1  |                            |                      |
|   | Speaker (number, location) Premium sound   | 3 on I/PNL & 2 on rear side shelf   |                            |                      |
| Roof open air/fixd (flip-up, sliding, "T")    |  | Opt. (flip-up)  |                            |                      |
| Speed control device                          |  | N.A.  | Std.                       |                      |
| Speed warning device (light, buzzer, etc.)    |  | N.A.  |                            |                      |
| Tachometer (rpm)                              |  | Std.  |                            |                      |
| Theft protection-type                         |  | Disk tumbler, keylocks on ignition switch, doors, fuel lid, luggage compartment & lockable steering |                            |                      |

\*1 Opt. (Electronic tuning radio)  
 2 Opt. (Premium sound)

# MVMA Specifications Form

## Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Mitsubishi Cordia

Model Year 1986

Issued 3-1-1985

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                        | SAE Ref. No. |                                     |
|----------------------------------|--------------|-------------------------------------|
| Width                            |              |                                     |
| Tread (front)                    | W101         | 1410                                |
| Tread (rear)                     | W102         | 1375                                |
| Vehicle width                    | W103         | 1660, 1655 (Without side protector) |
| Body width at Sg RP (front)      | W117         | 1645 (Excluding side protector)     |
| Vehicle width (front doors open) | W120         | 3660                                |
| Vehicle width (rear doors open)  | W121         | -                                   |
| Front fender overall width       | W106         | 1640                                |
| Rear fender overall width        | W107         | 1655                                |
| Tumble-home (deg.)               | W122         | 28°                                 |

### Length

|                                |      |      |
|--------------------------------|------|------|
| Wheelbase                      | L101 | 2445 |
| Vehicle length                 | L103 | 4395 |
| Overhang (front)               | L104 | 980  |
| Overhang (rear)                | L105 | 970  |
| Upper structure length         | L123 | 2645 |
| Rear wheel C/L "X" coordinate  | L127 | 2445 |
| Cowl point "X" coordinate      | L125 | 390  |
| Front end length at centerline | L126 | 1280 |
| Rear end length at centerline  | L129 | -    |

### Height\*

|                                     |         |                  |
|-------------------------------------|---------|------------------|
| Passenger distribution (front/rear) | PD1.2.3 | Front: 2 Rear: 3 |
| Trunk/cargo load                    |         | -                |
| Vehicle height                      | H101    | 1255             |
| Cowl point to ground                | H114    | 885              |
| Deck point to ground                | H138    | 880              |
| Rocker panel-front to ground        | H112    | 165              |
| Bottom of door closed-front to grd. | H133    | 250              |
| Rocker panel-rear to ground         | H111    | 145              |
| Bottom of door closed-rear to grd.  | H135    | -                |
| Windshield slope angle              | H122    | 290              |
| Backlight slope angle               | H121    | 230              |

### Ground Clearance\*

|   |      |                           |
|---|------|---------------------------|
| Front bumper to ground                      | H102 | 385                       |
| Rear bumper to ground                       | H104 | 315                       |
| Bumper to ground (front at curb mass (wt.)) | H103 | 395                       |
| Bumper to ground (rear at curb mass (wt.))  | H105 | 400                       |
| Angle of approach (degrees)                 | H106 | 22.5°, 19° (With air dam) |
| Angle of departure (degrees)                | H107 | 17.5°                     |
| Ramp breakover angle (degrees)              | H147 | 12°                       |
| Axle differential to ground (front/rear)    | H153 | 180                       |
| Min. running ground clearance               | H156 | 110                       |
| Location of min. run. grd. clear.           |      | Muffler                   |

\* 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 definitionsCar Line Mitsubishi CordiaModel Year 1986Issued 3-1-1985

Revised (●) \_\_\_\_\_

Body Type

SAE  
Ref.  
No.**Front Compartment**

|  |     |             |
|--|-----|-------------|
| Sg RP front, "X" coordinate              | L31 | 1315        |
| Effective head room                      | H61 | 935         |
| Max. eff. leg room (accelerator)         | L34 | 1050        |
| SgRP to heel point                       | H30 | 235         |
| SgRP to heel point                       | L53 | 853         |
| Back angle                               | L40 | 25°         |
| Hip angle                                | L42 | 99°         |
| Knee angle                               | L44 | 130°        |
| Foot angle                               | L46 | 77°         |
| Design H-point front travel              | L17 | 180         |
| Normal driving & riding seat track trvl. | L23 | 180         |
| Shoulder room                            | W3  | 1340        |
| Hip room                                 | W5  | 1360        |
| Upper body opening to ground             | H50 | 1165        |
| Steering wheel maximum diameter          | W9  | 386 (round) |
| Steering wheel angle                     | H18 | 22°         |
| Accel. heel pt. to steer. whl. cntr      | L11 | 453         |
| Accel. heel pt. to steer. whl. cntr      | H17 | 623         |
| Steering wheel to C/L of thigh           | H13 | 95          |
| Steering wheel torso clearance           | L7  | 390         |
| Headlining to roof panel (front)         | H37 | 16          |
| Undepressed floor covering thickness     | H67 | 20          |

**Rear Compartment**

|                                    |     |      |
|------------------------------------|-----|------|
| Sg RP Point couple distance        | L50 | 700  |
| Effective head room                | H63 | 905  |
| Min. effective leg room            | L51 | 770  |
| Sg RP (second to heel)             | H31 | 280  |
| Knee clearance                     | L48 | -80  |
| Compartment room                   | L3  | 610  |
| Shoulder room                      | W4  | 1270 |
| Hip room                           | W6  | 1320 |
| Upper body opening to ground       | H51 | -    |
| Back angle                         | L41 | 26°  |
| Hip angle                          | L43 | 85°  |
| Knee angle                         | L45 | 77°  |
| Foot angle                         | L47 | 104° |
| Headlining to roof panel (second)  | H38 | 20   |
| Depressed floor covering thickness | H73 | 16   |

**Luggage Compartment**

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

**Interior Volumes (EPA Classification)**

|   |  |                 |
|---|--|-----------------|
| Vehicle class (subcompact, compact, etc.) |  | Subcompact cars |
| Interior volume index (cu. ft.)           |  | 91.3            |
| Trunk/cargo index (cu. ft.)               |  | 13.567          |

# MVMA Specifications Form

## Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Mitsubishi Cordia

Model Year 1986

Issued 3-1-1985

Revised (●)

Body Type

| SAE Ref. No. | A217A |                            | A213A |
|--------------|-------|----------------------------|-------|
|              | AMNJL | AMNUL, AMKUL, AMNXL, AMKXL |       |

### Station Wagon – Third Seat

|                       |     |   |
|-----------------------|-----|---|
| Sg RP couple distance | L85 | — |
| Shoulder room         | W85 | — |
| Hip room              | W86 | — |
| Effective leg room    | L86 | — |
| Effective head room   | H86 | — |
| Sg RP 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 | 1285                |
| Cargo length at floor (front)                            | L209 | 1535                |
| Cargo length at second seatback height                   | L210 | 565                 |
| Cargo length at floor (second)                           | L211 | 850                 |
| Front seatback to load floor height                      | H197 | 325                 |
| Second seatback to load floor height                     | H198 | 430                 |
| Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]  | V3   | 0.58 m <sup>3</sup> |
| Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )] | V4   | —                   |
| Cargo volume index-rear of 2-seat                        | V11  | 0.39                |

### Aerodynamics\*

|   |             |
|---|-------------|
| Wheel lip to ground, front                        | —           |
| Wheel lip to ground, rear                         | —           |
| Frontal area [m <sup>2</sup> (ft. <sup>2</sup> )] | 1.74 (18.7) |
| Drag coefficient (Cd)                             | 0.33        |

\* EPA Loaded Vehicle Weight, Loading Conditions

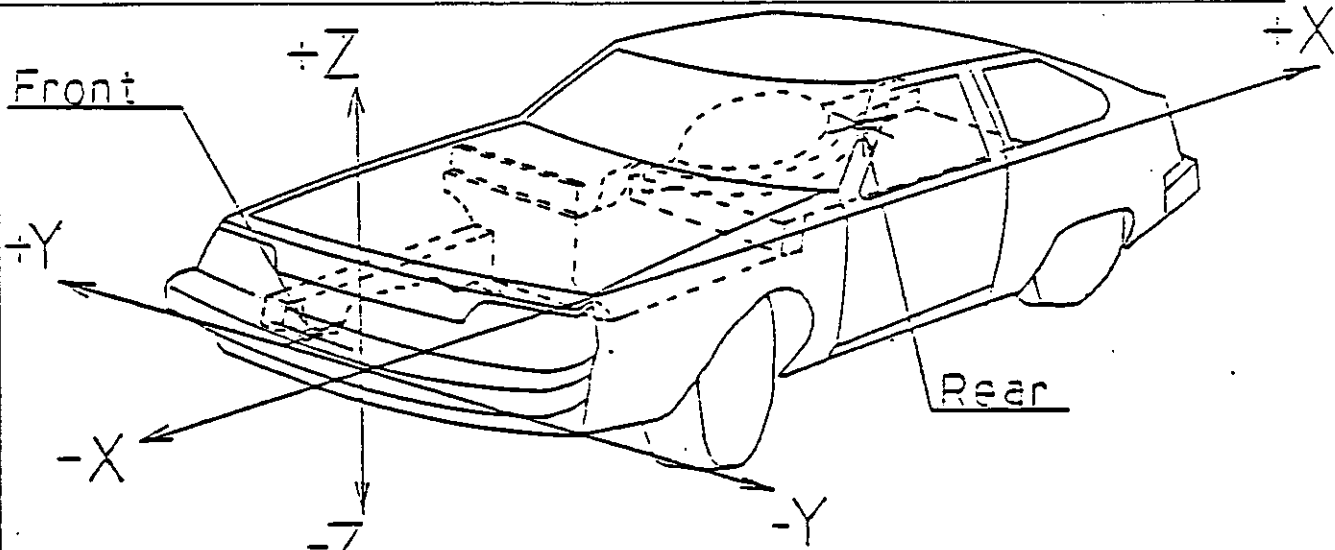
**MVMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

Car Line Mitsubishi Cordia  
 Model Year 1986 Issued 3-1-1985 Revised (●) \_\_\_\_\_

Body Type

|                     |     |
|---------------------|-----|
| G63B (1.997 Liters) |     |
| M/T                 | A/T |

**Vehicle Fiducial Marks**

| Fiducial Mark Number* |      | Define Coordinate Location   |                   |
|-----------------------|------|--|-------------------|
| Front                 |      |  <p>Detum plane definition - Vertical longitudinal plane through the<br/>         Longitudinal center of the car.<br/>         Vertical transverse plane through the front<br/>         wheel center.<br/>         Horizontal plane through the bottom of the<br/>         rocker panels.</p> |                   |
|                       |      |  |                   |
| Front                 | W21  | 465  |                   |
|                       | L54  | -511   |                   |
|                       | H81  | 106  |                   |
|                       | H161 | 285  | (-5.16TL, 0.84WL) |
|                       | H163 |  |                   |
| Rear                  | W22  | 580  |                   |
|                       | L55  | 2955   |                   |
|                       | H82  | 241  |                   |
|                       | H162 | 375  | (29.5TL, 2.19WL)  |
|                       | H164 |  |                   |

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

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

Car Line Mitsubishi Cordia  
 Model Year 1986 Issued 3-1-1985 Revised (●) \_\_\_\_\_

Body Type

**Lamps and Headlamp Shape\***

|   |                                     |                      |     |
|---|-------------------------------------|----------------------|-----|
| Height above ground to center of bulb or marker | Headlamp (SAE - H127)               | Highest**            | 635 |
|   |                                     | Lowest               | -   |
|   | Taillamp (SAE - H128)               | Highest**            | 800 |
|   |                                     | Lowest               | 790 |
|   | Sidemarker                          | Front                | 620 |
|   |                                     | Rear                 | 685 |
| Distance from C.L. of car to center of bulb     | Headlamp                            | Inside               | -   |
|   |                                     | Outside**            | 510 |
|   | Taillamp                            | Inside               | 420 |
|   |                                     | Outside**            | 620 |
|   | Directional                         | Front                | 470 |
|   |                                     | Rear                 | 635 |
|   |                                     |                      |     |
|   | Halogen headlamp (std., opt., n.a.) | Lo beam              |     |
| Hi beam   |                                     | Std.                 |     |
| Replaceable bulb                                |                                     | Std.                 |     |
| Shape   |                                     | Aerodynamic headlamp |     |
| Headlamp other than above                       | Lo beam                             |                      | N.A |
|   | Hi beam                             |                      | N.A |
|   | Replaceable                         |                      | N.A |
|   | Shape                               |                      | N.A |
|   | Type                                |                      | N.A |

\* Measured at curb mass (weight).  
 \*\* If single lamps are used enter here.

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

Model Year 1986 Issued 3-1-1985 Revised (●) \_\_\_\_\_

\*\* Shipping mass (weight) definition - Curb Weight minms fuel (37 kg)

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

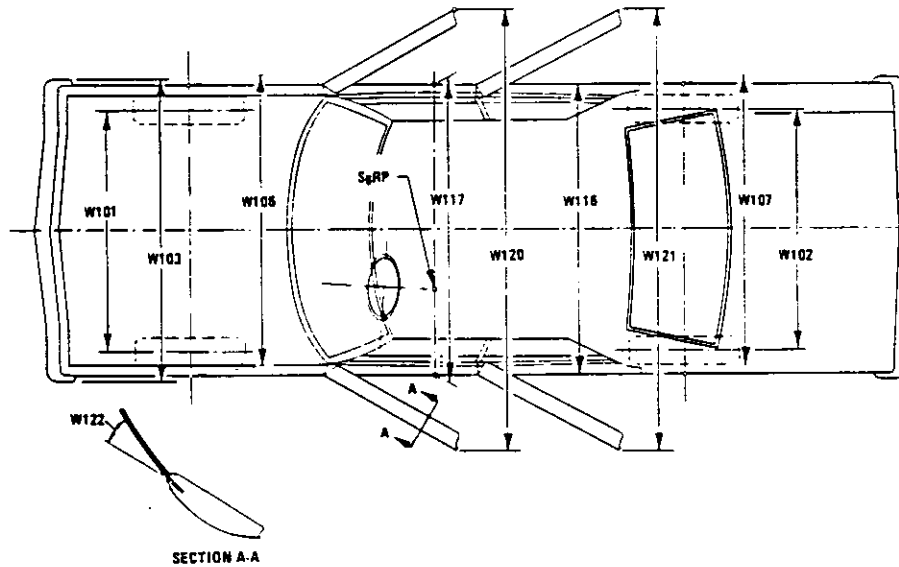
Model Year 1986 Issued 3-1-1985 Revised (●) \_\_\_\_\_

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

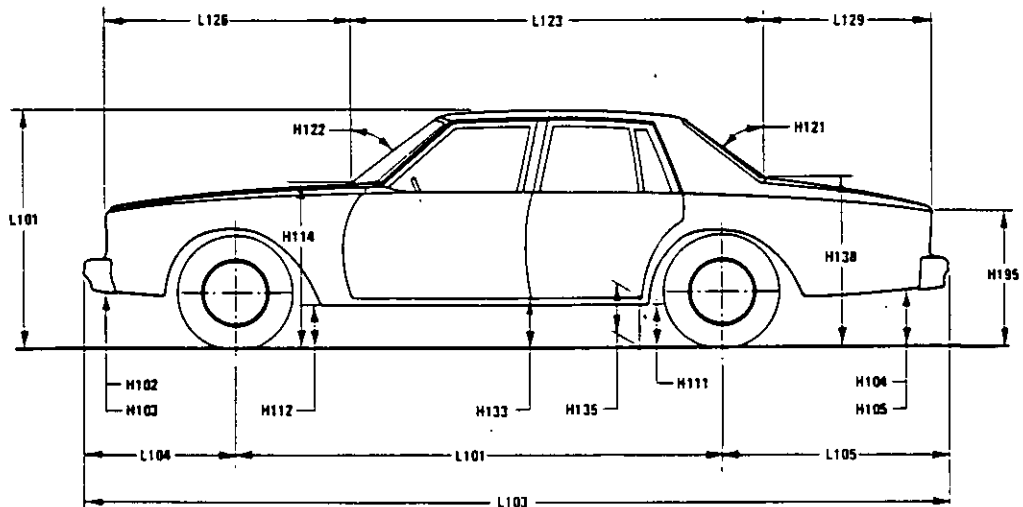
**MVMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

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

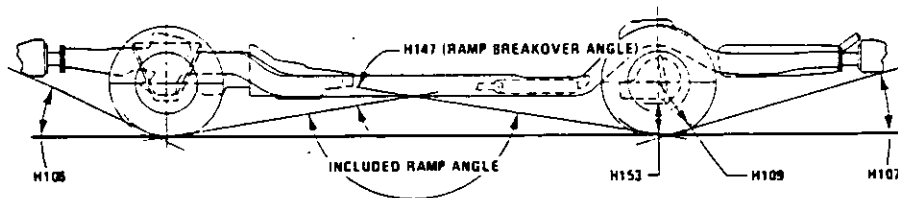
**Exterior Width**



**Exterior Length & Height**

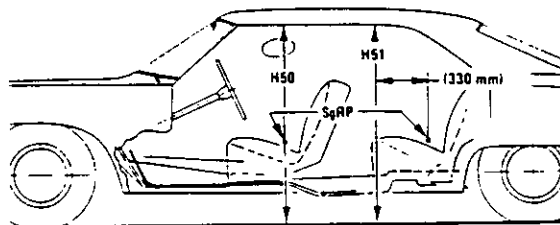
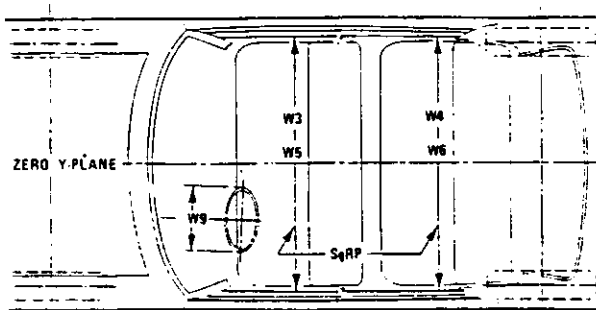
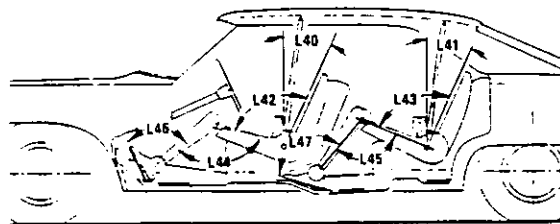
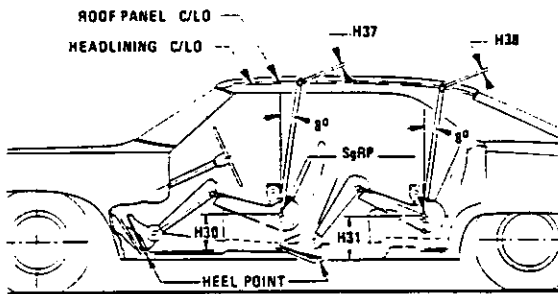
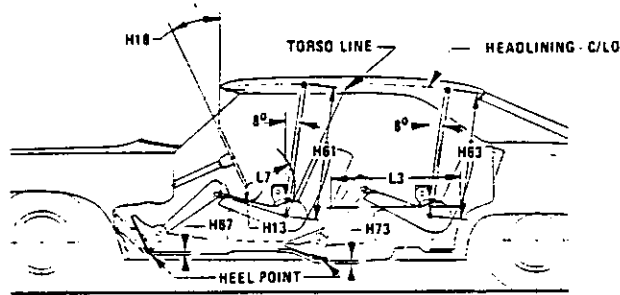
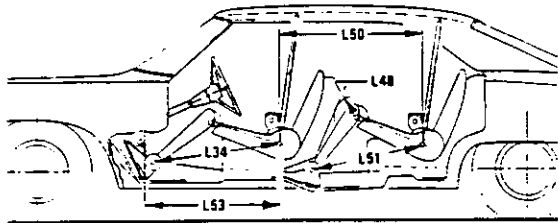


**Exterior Ground Clearance**



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

Interior Car And Body Dimensions – Key Sheet





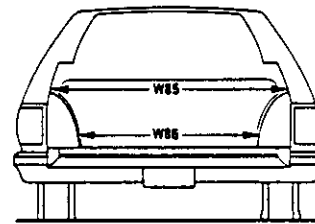
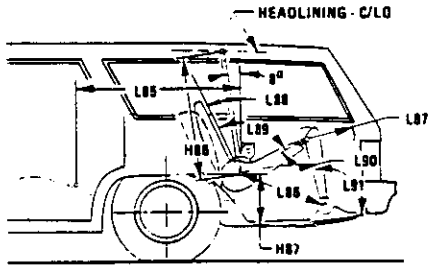
# MVMA Specifications Form

## Passenger Car

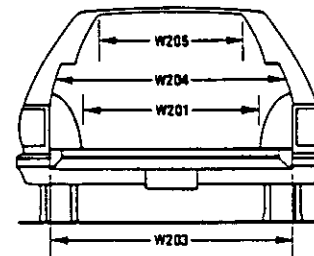
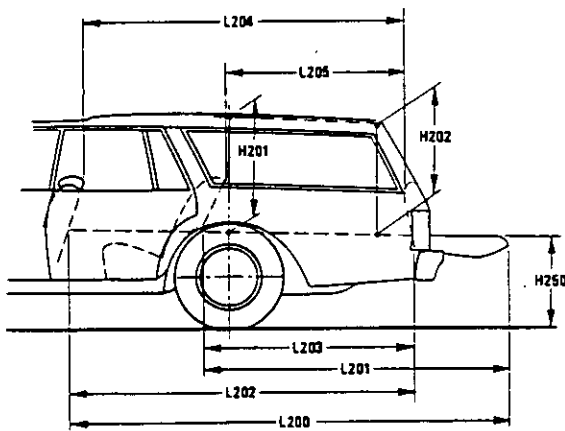
METRIC (U.S. Customary)

### Interior Car And Body Dimensions – Key Sheet

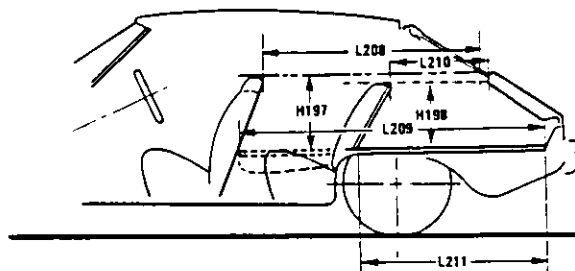
Third Seat



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 undeepressed floor covering to the rearmost point on the undeepressed 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 undeepressed floor covering to the rearmost point on the undeepressed 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 undeepressed floor covering to the rearmost point on the undeepressed 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 undeepressed floor covering to the rearmost point on the undeepressed 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 wheelhouseings 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 undeformed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undeformed 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 undeformed 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 undeformed 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.  
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 undeformed floor covering.
- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the second seat back to the undeformed 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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