

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

**Passenger Car**  
**1986**

|  |                                  |                |
|--|----------------------------------|----------------|
| <b>Manufacturer</b><br>FORD MOTOR COMPANY                            | <b>Car Line</b><br>ESCORT        |                |
| <b>Mailing Address</b><br>P. O. BOX 2053<br>DEARBORN, MICHIGAN 48121 | <b>Issued</b><br>SEPTEMBER, 1985 | <b>Revised</b> |

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

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. This specification form was developed by the automobile manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

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

Blank Forms Provided by Technical Affairs Division



Motor Vehicle Manufacturers Association  
of the United States, Inc.

# **MVMA Specifications Form**

## **Passenger Car**

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

### **Table of Contents**

---

|       |  |
|-------|--|
| 1     | Car Models                                       |
| 2     | Power Teams                                      |
| 3-6   | Engine   |
| 4     | Lubrication System                               |
| 4     | Diesel Information                               |
| 5     | Cooling System                                   |
| 6     | Fuel System                                      |
| 7     | Vehicle Emission Control                         |
| 7     | Exhaust System                                   |
| 8-10  | Transmission, Axles and Shafts                   |
| 11    | Suspension-Front and Rear                        |
| 12-13 | Brakes   |
| 13    | Tires and Wheels                                 |
| 14-15 | Steering   |
| 15-16 | Electrical                                       |
| 17    | Body – Miscellaneous Information                 |
| 18    | Restraint System                                 |
| 18    | Frame  |
| 18    | Glass  |
| 19    | Convenience Equipment                            |
| 20-22 | Car and Body Dimensions                          |
| 23    | Vehicle Fiducial Marks                           |
| 24    | Lamps and Headlamps                              |
| 25    | Vehicle Mass (Weight)                            |
| 26    | Optional Equipment Differential Mass (Weight)    |
| 27-33 | Car and Body Dimensions Definitions - Key Sheets |
| 34    | Index  |

---

#### **NOTE:**

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 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) |
|---|----------------------|--|--|--|
| % <u>ESCORT BASE</u> (PONY)               |                      |  |  |  |
| 2-Door<br>Hatchback                       | 10-03-85             | 61D  | 2/2  | 22.68 (50)                                     |
| % <u>ESCORT L</u>                         |                      |  |  |  |
| 2-Door<br>Hatchback                       | 10-03-85             | 61D  | 2/2  | 22.68 (50)                                     |
| 4-Door<br>Hatchback                       | 10-03-85             | 58D  | 2/2  | 22.68 (50)                                     |
| 4-Door<br>Wagon                           | 10-03-85             | 74D  | 2/2  | 68.04 (150)                                    |
| % <u>ESCORT LX</u>                        |                      |  |  |  |
| 2-Door<br>Hatchback                       | 10-03-85             | 61D/CVB  | 2/2  | 22.68 (50)                                     |
| 4-Door<br>Hatchback                       | 10-03-85             | 58D/CVB  | 2/2  | 22.68 (50)                                     |
| 4-Door<br>Wagon                           | 10-03-85             | 74D/CVB  | 2/2  | 68.04 (150)                                    |
| % <u>ESCORT GT</u>                        |                      |  |  |  |
| 2-Door<br>Hatchback                       | 10-03-85             | 61D  | 2/2  | 22.68 (50)                                     |
| % Front Wheel Drive (FWD)                 |                      |  |  |  |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●)

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

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

| SERIES<br>AVAILABILITY   | ENGINE                    |                                 |                 |                     |                            | E<br>x<br>h<br>a<br>u<br>s<br>t<br>S/D | TRANSMISSION<br>TRANSAXLE | TRANS AXLE RATIO *  |
|--|---------------------------|---------------------------------|-----------------|---------------------|----------------------------|--|---------------------------|---------------------|
|  | Displ.<br>Liters<br>(in³) | Carb.<br>(Barrels,<br>FI, etc.) | Compr.<br>Ratio | SAE Net at RPM      |                            |  |                           |                     |
|  |                           |                                 |                 | kW<br>(bhp)         | Torque<br>N·m<br>(lb. ft.) |  |                           |                     |
|  |                           | 49 STATES/CANADA (a)            |                 |                     |                            |  |                           |                     |
| Base and L<br>Series Models<br>Only (Except<br>Station Wagon)  | 1.9FS<br>(113.5)          | 2V                              | 9.0             | 64<br>(86)<br>4800  | 136<br>(100)<br>3000       | S                                      | MTX II                    | 2.85@               |
|  |                           | 50 STATES/CANADA (b)            |                 |                     |                            |  |                           |                     |
| Base, L & LX<br>Series Models<br>Only  | 1.9<br>(113.5)            | 2V                              | 9.0             | 64<br>(86)<br>4800  | 136<br>(100)<br>3000       | S                                      | MTX II                    | 3.52@               |
|  |                           | 50 STATES/ALTITUDE/CANADA       |                 |                     |                            |  |                           |                     |
| L & LX Series<br>Models Only(d)  | 1.9<br>(113.5)            | 2V                              | 9.0             | 64<br>(86)<br>4800  | 136<br>(100)<br>3000       | S                                      | MTX III<br>ATX            | 3.73/2.73%<br>3.23@ |
| GT 2-Door<br>Hatchback Only  | 1.9<br>(113.5)            | EFI                             | 9.0             | 81<br>(108)<br>5200 | 155<br>(114)<br>4000       |  | MTX III<br>ATX            | 3.73/2.73%<br>3.23@ |
|  |                           | 49 STATES/ALTITUDE/CANADA (c)   |                 |                     |                            |  |                           |                     |
| L & LX Series<br>Models Only   | 2.0<br>(121)              | Diesel                          | 22.7            | 39<br>(52)<br>4000  | 111<br>(82)<br>2400        | S                                      | MTX III                   | 3.52/2.61%          |
| 2-Door<br>Hatchback<br>L Series<br>only  | 2.0FS<br>(121)            | Diesel                          | 22.7            | 39<br>(52)<br>3700  | 108<br>(80)<br>2750        | S                                      | MTX III                   | 3.52/2.61%          |
| ATX - 3-Speed Automatic  |                           |                                 |                 |                     |                            |  |                           |                     |
| MTX II - 4-Speed Manual  |                           |                                 |                 |                     |                            |  |                           |                     |
| MTX III - 5-Speed Manual   |                           |                                 |                 |                     |                            |  |                           |                     |
| FS - Fuel Saver  |                           |                                 |                 |                     |                            |  |                           |                     |
| @ - Transfer Ratio   |                           |                                 |                 |                     |                            |  |                           |                     |
| % - The 5-speed is a unique arrangement utilizing dual transfer ratios, a higher numerical ratio for 1st through 4th and reverse and a lower numerical ratio for 5th |                           |                                 |                 |                     |                            |  |                           |                     |
| (a) - Not Available California or Altitude   |                           |                                 |                 |                     |                            |  |                           |                     |
| (b) - Not Available Altitude   |                           |                                 |                 |                     |                            |  |                           |                     |
| (c) - Not Available California   |                           |                                 |                 |                     |                            |  |                           |                     |
| * - For Final Drive Ratios - See Page 8  |                           |                                 |                 |                     |                            |  |                           |                     |
| (d) - Available All Models (Except GT) in High Altitude Areas  |                           |                                 |                 |                     |                            |  |                           |                     |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (•) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.9L/2V

1.9L/EFI

## ENGINE - GENERAL

|   |   |                           |
|---|---|---------------------------|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.) | Inline, Front, Transverse, (SOHC) Single Overhead Camshaft, Compound Valve Combustion Chambers (Hemi with 1.9L/EFI) |                           |
| Manufacturer  | FORD MOTOR COMPANY  |                           |
| No. of cylinders  | Four  |                           |
| Bore  | 82 (3.23)   |                           |
| Stroke  | 88 (3.46)   |                           |
| Bore spacing (C/L to C/L)   | 91.8  |                           |
| Cylinder block material & mass kg (lbs.)  | Cast Iron & 39.5 (87.0)   |                           |
| Cylinder block deck height  | 212.8 (8.38)  |                           |
| Deck clearance (minimum) (above or below block)   | .24 (.0095) Above .06 (.002) Below  |                           |
| Cylinder head material & mass kg (lbs.)   | Aluminum & 11.3 (25.0)  |                           |
| Cylinder head volume (cm <sup>3</sup> )   | 47.5 Nominal  | 54.99                     |
| Head gasket thickness (compressed)  | 1.6 (.063)  |                           |
| Minimum combustion chamber total volume (cm <sup>3</sup> )  | 46.0  | 53.39                     |
| Cyl. no. system (front to rear)*  | L. Bank   | 1, 2, 3, 4                |
|   | R. Bank   | N/A                       |
| Firing order  | 1, 3, 4, 2  |                           |
| Intake manifold material & mass [kg (weight, lbs.)]   | Aluminum & 1.36 (3.0)   | Aluminum & 5.44 (12.0)    |
| Exhaust manifold material & mass [kg (weight, lbs.)]  | Cast Iron & 6.8 (15.0)  | Steel Tubes & 9.07 (20.0) |
| Recommended fuel (leaded, unleaded, diesel)   | Unleaded  |                           |
| Fuel antiknock index (R + M)<br>2   | 87 Minimum  |                           |
| Total dressed engine mass (wt) dry**  | 130 (286.8)   | 130 (286.4)               |

## Engine - Pistons

|  |                                   |           |
|--|-----------------------------------|-----------|
| Material & mass, g (weight, oz.) - piston only | Cast Aluminum Alloy<br>347 (.765) | 363 (.80) |
|--|-----------------------------------|-----------|

## Engine - Camshaft

|                                   |                       |                         |
|-----------------------------------|-----------------------|-------------------------|
| Location                          | In Cylinder Head      |                         |
| Material & mass kg (weight, lbs.) | Cast Iron 3.18 (7.01) |                         |
| Drive type                        | Chain / belt          | Belt                    |
|                                   | Width / pitch         | 25.4 (1.0) / 9.5 (0.37) |

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

\*\* Dressed engine mass (weight) includes the following: Front End Dress, All Engine Mounted Components and Flex Plate: Excludes Starter and Alternator.

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

2.0L

## ENGINE - GENERAL

|   |   |            |
|---|---|------------|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.) | Inline, Front, Transverse, (SOHC) Single Overhead Cam, Pre-Chamber Diesel |            |
| Manufacturer  | MAZDA   |            |
| No. of cylinders  | Four  |            |
| Bore  | 86 (3.39)   |            |
| Stroke  | 86 (3.39)   |            |
| Bore spacing (C/L to C/L)   | 96-98-96 (3.78-3.86-3.78)   |            |
| Cylinder block material & mass kg (lbs.)  | Cast Iron & 37.4 (82.3)   |            |
| Cylinder block deck height  | 241.5 (9.51) From Centerline of Crank to Top of Block                     |            |
| Deck clearance (minimum) (above or below block)   | 0.75 (.030) Above   |            |
| Cylinder head material & mass kg (lbs.)   | Aluminum & 9 (19.8)   |            |
| Cylinder head volume (cm <sup>3</sup> )   |   |            |
| Head gasket thickness (compressed)  | 1.5 (.059)  |            |
| Minimum combustion chamber total volume (cm <sup>3</sup> )  | 23.02   |            |
| Cyl. no. system (front to rear)*  | L. Bank   | 1, 2, 3, 4 |
|   | R. Bank   | N.A.       |
| Firing order  | 1, 3, 4, 2  |            |
| Intake manifold material & mass [kg (weight, lbs.)]   | Aluminum & 2.4 (4.8)  |            |
| Exhaust manifold material & mass [kg (weight, lbs.)]  | Cast Iron & 3.8 (8.4)   |            |
| Recommended fuel (leaded, unleaded, diesel)   | Diesel  |            |
| Fuel antiknock index (R + M) 2  | Cetane, 40 or Greater   |            |
| Total dressed engine mass (wt) dry**  | 153 (338.4)   |            |

## Engine - Pistons

|  |                      |
|--|----------------------|
| Material & mass, g (weight, oz.) - piston only | Aluminum 0.59 (.027) |
|--|----------------------|

## Engine - Camshaft

|                                   |                       |                         |
|-----------------------------------|-----------------------|-------------------------|
| Location                          | Overhead              |                         |
| Material & mass kg (weight, lbs.) | Cast Iron 2.85 (6.27) |                         |
| Drive type                        | Chain / belt          | Belt                    |
|                                   | Width / pitch         | 19.1 (0.75)/9.53 (.375) |

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

\*\* Dressed engine mass (weight) includes the following: Front End Dress, All Engine Mounted Components and Flex Plate: Excludes Starter and Alternator.

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.9L

## Engine – Valve System

|                                    |                            |
|------------------------------------|----------------------------|
| Hydraulic lifters (std., opt., NA) | Standard                   |
| Valves                             | Number intake / exhaust    |
|                                    | Head O.D. intake / exhaust |

## Engine – Connecting Rods

|                                       |                          |
|---------------------------------------|--------------------------|
| Material & mass [kg., (weight, lbs.)] | Forged Steel, 0.68 (1.5) |
|---------------------------------------|--------------------------|

## Engine – Crankshaft

|  |                              |
|--|------------------------------|
| Material & mass [kg., (weight, lbs.)]        | Nodular Cast Iron, 29.5 (65) |
| End thrust taken by bearing (no.)            | #3                           |
| Number of main bearings                      | 5                            |
| Seal (material, one, two piece design, etc.) | Front                        |
|  | Rear                         |

## Engine – Lubrication System

|  |                                   |
|--|-----------------------------------|
| Normal oil pressure [kPa (psi) at engine rpm]  | 240-450 (35-65) @ 2000 (warm oil) |
| Type oil intake (floating, stationary)         | Stationary                        |
| Oil filter system (full flow, part, other)     | Full Flow                         |
| Capacity of c/case, less filter-refill-L (qt.) | 3.3 (3.5)                         |

## Engine – Diesel Information (NOT APPLICABLE)

|   |                              |
|---|------------------------------|
| Diesel engine manufacturer                                  |                              |
| Glow plug, current drain at 0°F                             |                              |
| Injector nozzle   | Type                         |
|   | Opening pressure [kPa (psi)] |
| Pre-chamber design  |                              |
| Fuel injection 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 (NOT APPLICABLE)

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

2.0L

## Engine - Valve System

|                                    |                            |   |
|------------------------------------|----------------------------|---|
| Hydraulic lifters (std., opt., NA) |                            | N.A.  |
| Valves                             | Number intake / exhaust    | 4/4   |
|                                    | Head O.D. intake / exhaust | 41 + 0.1 (1.61 + .04) / 36 + 0.1 (1.42 + .04) |

## Engine - Connecting Rods

|                                       |                          |
|---------------------------------------|--------------------------|
| Material & mass [kg., (weight, lbs.)] | Carbon Steel 0.88 (0.19) |
|---------------------------------------|--------------------------|

## Engine - Crankshaft

|  |       |                                  |
|--|-------|----------------------------------|
| Material & mass [kg., (weight, lbs.)]        |       | Alloy Steel 15.9 (3.5)           |
| End thrust taken by bearing (no.)            |       | #3                               |
| Number of main bearings                      |       | Five                             |
| Seal (material, one, two piece design, etc.) | Front | Rubber, One Piece                |
|  | Rear  | Rubber w/Alum. Ret., Three Piece |

## Engine - Lubrication System

|  |   |
|--|---|
| Normal oil pressure [kPa (psi) at engine rpm]  | Greater than 0.7 Kg/CM <sup>2</sup> @ 700 RPM; Oil Temp. 80°C |
| Type oil intake (floating, stationary)         | Stationary  |
| Oil filter system (full flow, part, other)     | Full Flow Main, 10% Bypass                                    |
| Capacity of c/case, less filter-refill-L (qt.) | 5.0 (5.28)  |

## Engine - Diesel Information

|   |                              |  |
|---|------------------------------|--|
| Diesel engine manufacturer                                  |                              | MAZDA MOTOR COMPANY  |
| Glow plug, current drain at 0°F                             |                              | 16.5 Amps/900°C Per Plug   |
| Injector nozzle   | Type                         | Throttle Pintle  |
|   | Opening pressure (kPa (psi)) | 13.200 (1914)  |
| Pre-chamber design  |                              | Slant Bottom, 45° Throat Angle                                       |
| Fuel in-jection pump  | Manufacturer                 | Nippondenso  |
|   | Type                         | Distributor  |
| Fuel injection pump drive (belt, chain, gear)               |                              | Belt   |
| Supplementary vacuum source (type)                          |                              | Electric Pump  |
| Fuel heater (yes/no)  |                              | Yes  |
| Water separator, description (std., opt.)                   |                              | Standard, Fuel Filter Conditioner                                    |
| Turbo manufacturer  |                              | N.A.   |
| Oil cooler-type (oil to engine coolant; oil to ambient air) |                              | Engine Mounted, Oil to Water   |
| Oil filter  |                              | Two, One (Full-Flow) Mtd. on Eng. & Other (Bypass) Mtd. on Frt. Rail |

## Engine - Intake System

|                              |      |
|------------------------------|------|
| Turbo charger - manufacturer | N.A. |
| Super charger - manufacturer | N.A. |
| Charge cooler                | N.A. |



# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.9L

## Engine - Cooling System

|  |   |                                      |
|--|---|--------------------------------------|
| Coolant recovery system (std., opt., n.a.)     |   | Standard                             |
| Coolant fill location (rad., bottle)           |   | Rad. w/Added 2L in Bottle            |
| Radiator cap relief valve pressure [kPa (psi)] |   | 110.3 (16.0)                         |
| Circulation thermostat                         | Type (choke, bypass)                              | Choke                                |
|  | Starts to open at °C (°F)                         | 88.96 (192.0)                        |
| Water pump                                     | Type (centrifugal, other)                         | Centrifugal                          |
|  | GPM 1000 pump rpm                                 | 19L (5 GPM)                          |
|  | Number of pumps                                   | One                                  |
|  | Drive (V-belt, other)                             | Timing Belt                          |
|  | Bearing type                                      | Ball-Roller                          |
|  | Impeller material                                 | Steel                                |
|  | Housing material                                  | Cast Iron                            |
| By-pass recirculation [type (inter., ext.)]    |   | External                             |
| Cooling system capacity                        | With heater—L(qt.)                                | 6.2 (6.5)                            |
|  | With air cond.—L(qt.)                             | 6.7 (7.1)                            |
|  | Opt. equipment [specify—L(qt.)]                   | N/A                                  |
| Water jackets full length of cyl. (yes, no)    |   | Yes                                  |
| Water all around cylinder (yes, no)            |   | Yes                                  |
| Water jackets open at head face (yes, no)      |   | Yes                                  |
| Radiator core                                  | Std., A/C, HD                                     | Standard                             |
|  | Type (cross-flow, etc.)                           | Cross-Flow                           |
|  | Construction (fin & tube mechanical, braze, etc.) | Vacuum Braze                         |
|  | Material, mass [kg (wgt, lbs.)]                   | Aluminum 3.63 (8)                    |
|  | Width   | 589 (23.2)                           |
|  | Height  | 333 (13.1)                           |
|  | Thickness   | 26 (1.02)                            |
|  | Fins per inch                                     | 12.7                                 |
| Radiator end tank material                     |   | Glass Filled Nylon                   |
| Fan  | Std., elec., opt.                                 | Electric                             |
|  | Number of blades & type (flex, solid, material)   | 7 & Solid, Plastic                   |
|  | Diameter & projected width                        | 312 (12.3) & 37.5 (1.5)              |
|  | Ratio (fan to crankshaft rev.)                    | N/A                                  |
|  | Fan cutout type                                   | Coolant Sensor & Electric Switch     |
|  | Drive type (direct, remote)                       | N/A                                  |
|  | RPM at idle (elec.)                               | 1850                                 |
|  | Motor rating (wattage) (elec.)                    | 80 w/Heater; 160 w/A-C               |
|  | Motor switch (type & location) (elec.)            | Thermostatic-Water Outlet Connection |
|  | Switch point (temp., pressure) (elec.)            | Temp. 105° (221°)                    |
|  | Fan shroud (material)                             | Metal                                |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

2.0L

## Engine – Cooling System

|  |   |                                       |                            |
|--|---|---------------------------------------|----------------------------|
| Coolant recovery system (std., opt., n.a.)     |   | Standard                              |                            |
| Coolant fill location (rad., bottle)           |   | Radiator Initially, Bottle in Service |                            |
| Radiator cap relief valve pressure [kPa (psi)] |   | 110.3 (16)                            |                            |
| Circulation thermostat                         | Type (choke, bypass)                              | Choke                                 |                            |
|  | Starts to open at °C (°F)                         | 87.8°C (190°F)                        |                            |
| Water pump                                     | Type (centrifugal, other)                         | Centrifugal                           |                            |
|  | GPM 1000 pump rpm                                 | 32 GPM @ 4000 Pump RPM                |                            |
|  | Number of pumps                                   | One                                   |                            |
|  | Drive (V-belt, other)                             | Cog Belt (Timing Belt)                |                            |
|  | Bearing type                                      | Ball Bearing (Integral)               |                            |
|  | Impeller material                                 | Steel                                 |                            |
|  | Housing material                                  | Aluminum                              |                            |
| By-pass recirculation [type (inter., ext.)]    |   | External (Heater & Oil Cooler)        |                            |
| Cooling system capacity                        | With heater—L(qt.)                                | 8.7 (9.2)                             |                            |
|  | With air cond.—L(qt.)                             | 8.7 (9.2)                             |                            |
|  | Opt. equipment [specify—L(qt.)]                   | N.A.                                  |                            |
| Water jackets full length of cyl. (yes, no)    |   | Yes                                   |                            |
| Water all around cylinder (yes, no)            |   | No (Siamese)                          |                            |
| Water jackets open at head face (yes, no)      |   | Yes                                   |                            |
| Radiator core                                  | Std., A/C, HD                                     | Standard                              | A/C                        |
|  | Type (cross-flow, etc.)                           | Cross-Flow                            |                            |
|  | Construction (fin & tube mechanical, braze, etc.) | Vacuum Braze                          |                            |
|  | Material, mass [kg (wgt. lbs.)]                   | Aluminum, 2.9 (6.4)                   |                            |
|  | Width   | 589 (23.2)                            |                            |
|  | Height  | 333 (13.1)                            |                            |
|  | Thickness   | 26 (1.02)                             |                            |
|  | Fins per inch                                     | Fourteen                              |                            |
| Radiator end tank material                     |   | Glass Filled Nylon                    |                            |
| Fan  | Std., elec., opt.                                 | Electric                              |                            |
|  | Number of blades & type (flex, solid, material)   | 4 & Solid, Steel                      |                            |
|  | Diameter & projected width                        | 312.4 x 35.6 (12.3 x 1.4)             | (304.8 x 35.6 (12.0 x 1.4) |
|  | Ratio (fan to crankshaft rev.)                    | N.A.                                  |                            |
|  | Fan cutout type                                   | N.A.                                  |                            |
|  | Drive type (direct, remote)                       | Direct                                |                            |
|  | RPM at idle (elec.)                               | 1850 RPM                              | 2250 RPM                   |
|  | Motor rating (wattage) (elec.)                    | 80 Watt                               | 155 Watt                   |
|  | Motor switch (type & location) (elec.)            | Elec. Sensor & Thermo Hse.            | On/Off A/C Function        |
|  | Switch point (temp., pressure) (elec.)            | 99.0°C (210°F)                        |                            |
|  | Fan shroud (material)                             | Plastic                               |                            |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.9L/2V

1.9L/EFI

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

|   |  |           |                                    |                           |
|---|--|-----------|------------------------------------|---------------------------|
| Induction type: carburetor, fuel injection system, etc.               |  |           | Carburetor                         | Electronic Fuel Injection |
| Carburetor or Injector  | Mfr.   |           | Holly Weber                        | Bosch (Injector)          |
|   | Choke (type)   |           | Automatic-Electric (Texas Inst.)   | N/A                       |
|   | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual    | 750 Neutral                        | 1000 Neutral              |
|   |  |           | --                                 |                           |
|   |  | Automatic | 800 Drive                          | 850 Drive                 |
|   |  | --        |                                    |                           |
| Idle A/F mix.   |  |           | 14.5:1                             | 14.64:1                   |
| Fuel injection  | Point of injection (no.)                                   |           | --                                 | Intake Port (4)           |
|   | Constant, pulse, flow                                      |           | --                                 | Pulse                     |
|   | Control (electronic, mech.)                                |           | --                                 | Electronic                |
|   | System pressure (kPa (psi))                                |           | --                                 | 31.02 (4,5)               |
| Intake manifold heat control (exhaust or water thermostatic or fixed) |  |           | N/A                                |                           |
| Air cleaner type  | Standard   |           | Pleated Paper, Replaceable Element |                           |
|   | Optional   |           | N/A                                |                           |
| Fuel pump   | Type (elec. or mech.)                                      |           | Mechanical                         | Electric                  |
|   | Location (eng., tank)                                      |           | Cylinder Head                      | Floor Pan Body Mount      |
|   | Pressure range (kPa (psi))                                 |           | 27.6 - 41.4 (4.0 - 6.0)            | 269 (39) Nominal          |

## Fuel Tank

|                                       |                          |   |
|---------------------------------------|--------------------------|---|
| Capacity [refill L (gallons)]         |                          | 49.2 (13) Standard                                |
| Location (describe)                   |                          | In Front of Rear Suspension                       |
| Attachment                            |                          | Two Straps with Pin & Loop at Rear, Bolt at Front |
| Material & Mass [kg (weight lbs)] (a) |                          | Steel & 5.9 (13) Steel & 6.6 (14.5)               |
| Filler pipe                           | Location & material      | Right Rear Quarter Panel; Steel                   |
|                                       | Connection to tank       | Rubber Hoses                                      |
| Fuel line (material)                  |                          | Steel   |
| Fuel hose (material)                  |                          | Reinforced Rubber Rubber Covered Nylon            |
| Return line (material)                |                          | Steel   |
| Vapor line (material)                 |                          | Steel   |
| Extended range tank                   | Opt., n.a.               | N/A   |
|                                       | Capacity [L (gallons)]   |   |
|                                       | Location & material      |   |
|                                       | Attachment               |   |
| Auxiliary tank                        | Opt., n.a.               | N/A   |
|                                       | Capacity [L (gallons)]   |   |
|                                       | Location & material      |   |
|                                       | Attachment               |   |
|                                       | Selector switch or valve |   |
| Separate fill                         |                          |   |

(a) Some Models May Be Equipped with a 37.9L (10.0 gal) Fuel Tank

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT

Model Year 1986

Issued 9/85

Revised (•)

Engine Description/Carb.  
Engine Code

2.0L

## 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 System

|  |  |   |
|--|--|---|
| Carbure-<br>tor  | Mfgr.  | N.A.  |
|  | Choke (type)   | N.A.  |
|  | Idle spd.-rpm<br>(spec. neutral<br>or drive and<br>propane if<br>used) | Manual N.A.   |
|  |  | Automatic N.A.  |
| Idle A/F mix.  |  | N.A.  |
| Fuel<br>injection  | Point of injection (no.)   | 4-Point-Pre Chamber   |
|  | Constant, pulse, flow  | Mechanical  |
|  | Control (electronic, mech.)  | Mechanical  |
|  | System pressure [kPa (psi)]  | 13,200 (1914)   |
| Intake manifold heat control (exhaust<br>or water thermostatic or fixed) |  | N.A.  |
| Air cleaner<br>type  | Standard   | Paper Filter, 1.5 M <sup>2</sup> (16.1 ft <sup>2</sup> ) - Area |
|  | Optional   | Above, with Hot Water System to Prevent Snow Packing            |
| Fuel<br>pump   | Type (elec. or mech.)  | Mechanical-Distributor (Integrated in F.I.P.)                   |
|  | Location (eng., tank)  | Engine - Belt Driven  |
|  | Pressure range [kPa (psi)]   | 780 (113.1)   |

## Fuel Tank

|                                   |                          |   |
|-----------------------------------|--------------------------|---|
| Capacity (refill L (gallons))     |                          | 49.2 (13 Gal) Standard                              |
| Location (describe)               |                          | In Front of Rear Suspension                         |
| Attachment                        |                          | Two Straps with Pin and Loop at Rear, Bolt at Front |
| Material & Mass [kg (weight lbs)] |                          | Steel & 6.58 (14.5)                                 |
| Filler<br>pipe                    | Location & material      | Right Rear Quarter Panel; Steel                     |
|                                   | Connection to tank       | Rubber Hoses  |
| Fuel line (material)              |                          | Steel   |
| Fuel hose (material)              |                          | Reinforced Rubber                                   |
| Return line (material)            |                          | Steel   |
| Vapor line (material)             |                          | N.A.  |
| Extended<br>range<br>tank         | Opt., n.a.               | N.A.  |
|                                   | Capacity [L (gallons)]   | N.A.  |
|                                   | Location & material      | N.A.  |
|                                   | Attachment               | N.A.  |
| Auxiliary<br>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.  |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.9L/2V

1.9L/EFI

## Vehicle Emission Control

|                                    |  |  |                                 |                         |
|------------------------------------|--|--|---------------------------------|-------------------------|
| Exhaust<br>Emission<br>Control     | Type (air injection, engine modifications, other)        |  | Air Injection                   | Pulse Air               |
|                                    | Air<br>Injection   | Pump or pulse  | Pump                            | Dual Pulse              |
|                                    |  | Driven by  | Belt                            | Exhaust Flow            |
|                                    |  | Air distribution (head, manifold, etc.)                          | Manifold and Underbody Catalyst | Underbody Catalyst      |
|                                    |  | Point of entry   | Manifold and Underbody Catalyst | Underbody Catalyst      |
|                                    | Exhaust<br>Gas<br>Recirculation                          | Type (controlled flow, open orifice, other)                      | Controlled Flow                 |                         |
|                                    |  | Exhaust source   | Exhaust Manifold #4 Runner      | Exh. Header Sec. Junct. |
|                                    |  | Point of exhaust injection (spacer, carburetor, manifold, other) | Intake Manifold Plenum          |                         |
|                                    | Catalytic<br>Converter                                   | Type   | TWC/COC Converter M.T.A.        | TWC/COC Conv. Pulse Air |
|                                    |  | Number of  | One                             |                         |
|                                    |  | Location(s)  | Underbody                       |                         |
|                                    |  | Volume [L (in <sup>3</sup> )]                                    | 1.5 (93)                        |                         |
| Substrate type                     |  | Monolithic Ceramic   |                                 |                         |
| Crankcase<br>Emission<br>Control   | Type (ventilates to atmosphere, induction system, other) |  | Induction System                |                         |
|                                    | Energy source (manifold vacuum, carburetor, other)       |  | Manifold Vacuum                 |                         |
|                                    | Discharges (to intake manifold, other)                   |  | Intake Manifold                 |                         |
|                                    | Air inlet (breather cap, other)                          |  | Air Cleaner - Dirty Side        |                         |
| Evaporative<br>Emission<br>Control | Vapor vented to (crankcase, canister, other)             | Fuel tank  | Canister                        |                         |
|                                    |  | Carburetor   | Canister                        | N/A                     |
|                                    | Vapor storage provision                                  |  | Carbon Canister                 |                         |
| Electronic<br>system               | Closed loop (yes/no)                                     |  | N/A                             | Yes                     |
|                                    | Open loop (yes/no)                                       |  | N/A                             |                         |

## Engine - Exhaust System

|  |                                   |  |                                    |
|--|-----------------------------------|--|------------------------------------|
| Type (single, single with cross-over, dual, other)   |                                   | Single   | Tri-Y-Header<br>Into Single System |
| Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)] |                                   | Reverse Flow                                       |                                    |
| Resonator no. & type   |                                   | N/A  |                                    |
| Exhaust<br>pipe  | Branch o.d., wall thickness       | N/A  |                                    |
|  | Main o.d., wall thickness         | 51 x 1.37 (2.0 x .054)                             |                                    |
|  | Material & Mass [kg (weight lbs)] | Aluminized Low Carbon Steel                        |                                    |
| Inter-<br>mediate<br>pipe  | o.d. & wall thickness             | N/A  |                                    |
|  | Material & Mass [kg (weight lbs)] | N/A  |                                    |
| Tail<br>pipe   | o.d. & wall thickness             | 42 x 1.37 (1.62 x .054); 44.5 x 1.37 (1.75 x .054) |                                    |
|  | Material & Mass [kg (weight lbs)] | Aluminized Low Carbon Steel                        |                                    |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●)

Engine Description/Carb.  
Engine Code

2.0L

## Vehicle Emission Control

|                               |  |  |                      |
|-------------------------------|--|--|----------------------|
| Exhaust Emission Control      | Type (air injection, engine modifications, other)        |  | Engine Modifications |
|                               | Air Injection  | Pump or pulse  | N.A.                 |
|                               |  | 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)                      | N.A.                 |
|                               |  | Exhaust source   | N.A.                 |
|                               |  | Point of exhaust injection (spacer, carburetor, manifold, other) | N.A.                 |
|                               | Catalytic Converter                                      | Type   | N.A.                 |
|                               |  | Number of  | N.A.                 |
| Location(s)                   |  | N.A.   |                      |
| Volume [L (in <sup>3</sup> )] |  | N.A.   |                      |
| Substrate type                |  | N.A.   |                      |
| Crankcase Emission Control    | Type (ventilates to atmosphere, induction system, other) |  | Induction System     |
|                               | Energy source (manifold vacuum, carburetor, other)       |  | Sump Pressure        |
|                               | Discharges (to intake manifold, other)                   |  | Intake Manifold      |
|                               | Air inlet (breather cap, other)                          |  | Vented to Atmosphere |
| Evaporative Emission Control  | Vapor vented to (crankcase, canister, other)             | Fuel tank  | N.A.                 |
|                               |  | Carburetor   | N.A.                 |
|                               | Vapor storage provision                                  |  | N.A.                 |
| Electronic system             | Closed loop (yes/no)                                     |  | N.A.                 |
|                               | Open loop (yes/no)                                       |  | N.A.                 |

## Engine - Exhaust System

|  |                                   |                            |
|--|-----------------------------------|----------------------------|
| Type (single, single with cross-over, dual, other)   |                                   | Single                     |
| Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)] |                                   | Single Reverse Flow        |
| Resonator no. & type   |                                   | Single Straight Thru       |
| Exhaust pipe   | Branch o.d., wall thickness       | N.A.                       |
|  | Main o.d., wall thickness         | N.A.                       |
|  | Material & Mass [kg (weight lbs)] | N.A.                       |
| Inter-mediate pipe   | o.d. & wall thickness             | 51 x 1.37 (2.0 x .054)     |
|  | Material & Mass [kg (weight lbs)] | Low Carbon Aluminum Coated |
| Tail pipe  | o.d. & wall thickness             | 44.0 x 1.37 (1.73 x .054)  |
|  | Material & Mass [kg (weight lbs)] | Low Carbon Aluminum Coated |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT

Model Year 1986

Issued 9/85

Revised (●)

Engine Description/Carb.  
Engine Code

ALL MODELS

## Transmissions/Transaxle

|   |                          |
|---|--------------------------|
| Manual 3-speed (std., opt., n.a.) (mfr.)      | N/A                      |
| Manual 4-speed (std., opt., n.a.) (mfr.)      | Standard (Mazda)         |
| Manual 5-speed (std., opt., n.a.) (mfr.)      | Optional (Mazda)         |
| Manual overdrive (std., opt., n.a.) (mfr.)    | N/A                      |
| Automatic (std., opt., n.a.) (mfr.)           | Optional (Ford or Mazda) |
| Automatic overdrive (std., opt., n.a.) (mfr.) | N/A                      |

| Manual Transmission/Transaxle       |                        | Transfer Ratios:                                  |                    |
|-------------------------------------|------------------------|---|--------------------|
|                                     |                        | (2.85:1) (3.52:1)                                 | (3.73/2.73:1)      |
| Number of forward speeds            |                        | Four (MTX II)                                     | Five (MTX III) (b) |
| Transmission ratios                 | In first (Final Drive) | 3.21 (9.17) (a) (11.32)                           | 3.60 (13.43)       |
|                                     | In second " "          | 1.81 (5.18) ( 6.39)                               | 2.12 ( 7.91)       |
|                                     | In third " "           | 1.15 (3.29) ( 4.06)                               | 1.39 ( 5.18)       |
|                                     | In fourth " "          | 0.78 (2.24) ( 2.76)                               | 1.02 ( 3.80)       |
|                                     | In fifth " "           | -   | 1.02 ( 2.80)       |
|                                     | In overdrive " "       | 0.78 (2.24) ( 2.76)                               |                    |
|                                     | In reverse " "         | 3.27 (9.32) (11.50)                               | 3.62 (13.50)       |
| Synchronous meshing (specify gears) |                        | All Forward Gears                                 |                    |
| Shift lever location                |                        | Floor   |                    |
| Lubricant                           | Capacity [L (pt.)]     | 2.9 (6.1)   |                    |
|                                     | Type recommended       | Automatic Trans. Fluid Plus Friction Modifier (c) |                    |
|                                     | SAE viscosity number   | Summer  | N/A                |
|                                     |                        | Winter  | N/A                |
|                                     |                        | Extreme cold                                      | N/A                |

## Clutch (Manual Transmission)

|   |   |  |
|---|---|--|
| Make, type, engagement (describe) - (hydraulic, cable, rod) |   | Single Disc, Dry Plate, Cable with Self Adjustment           |
| Assist (yes, no / percent)                                  |   | No   |
| Type pressure plate springs                                 |   | Belleville Spring  |
| Total spring load [N (lb.)]                                 |   | 4500 (1012)  |
| No. of clutch driven discs                                  |   | One  |
| Clutch facing   | Material  | Woven Non-Asbestos, Valeo F-202                              |
|   | Manufacturer  | Valeo  |
|   | Part number   | E6ER-7550-BA   |
|   | Rivets/plate  | 12   |
|   | Rivet size  | 4.1 x 5.4 (5/32 x 7/32)                                      |
|   | Outside & inside dia.                                 | 215 (8.465) & 145 (5.709)                                    |
|   | Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )] | 396 (61.4)   |
|   | Thickness   | 3.35 (.132)  |
| Engagement cushion method                                   |   | Torbend Disc   |
| Release bearing   | Type & method of lubrication                          | Self Centering, Angular Contact Constant Running, Pre-Packed |
| Torsional damping   | Method: springs, friction material                    | Multi-Stage, Spring & Friction Material                      |

(a) Available with Fuel Saver Engine

(b) MTX III is a Unique Two Speed Arrangement Utilizing Dual Transfer Ratios, one for 1st through 4th and Reverse and one for 5th

(c) ATF ESU-M2C33F (95.2% by Volume) + Friction Mod. EST-M2C1180A (4.8% by Volume)

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●)

Engine Description/Carb.  
Engine Code

2.0L

## Transmissions/Transaxle

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

Transfer Ratios:

3.52/2.61:1

## Manual Transmission/Transaxle

|                                     |                        |                    |  |
|-------------------------------------|------------------------|--------------------|--|
| Number of forward speeds            |                        | Five (MTX III) (a) |  |
| Transmission ratios                 | In first (Final Drive) | 3.93 (13.84)       |  |
|                                     | In second " "          | 2.12 ( 7.47)       |  |
|                                     | In third " "           | 1.39 ( 4.91)       |  |
|                                     | In fourth " "          | 0.98 ( 3.45)       |  |
|                                     | In fifth " "           | 0.98 ( 2.56)       |  |
|                                     | In overdrive " "       | 0.98 ( 2.56)       |  |
|                                     | In reverse " "         | 3.62 (12.73)       |  |
| Synchronous meshing (specify gears) |                        | All Forward Gears  |  |
| Shift lever location                |                        | Floor              |  |
| Lubricant                           | Capacity [L (pt.)]     |                    | 2.9 (6.1)  |
|                                     | Type recommended       |                    | Automatic Trans.Fluid Plus Friction Modifier(b) (See Note) |
|                                     | SAE viscosity number   | Summer             | --   |
|                                     |                        | Winter             | --   |
|                                     |                        | Extreme cold       | --   |

## Clutch (Manual Transmission)

|  |   |   |
|--|---|---|
| Make, type, engagement (describe) –<br>(hydraulic, cable, rod) |   | Single Disc, Dry Plate, Cable with Self Adjustment              |
| Assist (yes, no / percent)                                     |   | No  |
| Type pressure plate springs                                    |   | Belleville Spring   |
| Total spring load [N (lb.)]                                    |   | 3850 (865)  |
| No. of clutch driven discs                                     |   | One   |
| Clutch<br>facing   | Material  | Woven Non-Asbestos, Valeo F-201, Raymark 8060-2                 |
|  | Manufacturer  | Luk   |
|  | Part number   | E5ER-7750-CA  |
|  | Rivets/plate  | 12  |
|  | Rivet size  | 4.9 x 5.6 (3/16 x 7/32)   |
|  | Outside & inside dia.                                 | 200 (7.874 & 134 (5.276)  |
|  | Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )] | 346 (53.7)  |
|  | Thickness   | 3.60 (.142)   |
| Engagement cushion<br>method                                   |   | Segmented   |
| Release<br>bearing   | Type & method<br>of lubrication                       | Self Centering, Angular Contact,<br>Constant Running, Prepacked |
| Torsional<br>damping   | Method: springs,<br>friction material                 | Multi-Stage, Springs & Friction Material                        |

(a) MTX III is a unique Two Speed Arrangement Utilizing Dual Transfer Ratios, One for 1st through 4th and Reverse and One for 5th.

(b) ATF ESW-M2C33F (95.2% by Volume) plus Friction Modifier EST-M2C118-A (4.8% by Volume).



# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

ALL MODELS

## Automatic Transmission/Transaxle

|  |                               |   |
|--|-------------------------------|---|
| Trade name   |                               | Transaxle (ATX)   |
| Type and special features (describe)                         |                               | ATX - wide ratio, 3-speed with open torque converter in low and split-torque in intermediate and high |
| Selector   | Location                      | Floor mounted T-bar design  |
|  | Ltr./No. designation          | PRND21  |
| Gear ratios  | R                             | 1.97:1  |
|  | D                             | 1.00:1  |
|  | L <sub>3</sub>                | --  |
|  | L <sub>2</sub>                | 1.62:1  |
|  | L <sub>1</sub>                | 2.79:1  |
| Max. upshift speed - drive range [km/h (mph)]                |                               | 124 (77)  |
| Max. kickdown speed - drive range [km/h (mph)]               |                               | 113 (70)  |
| Min. overdrive speed [km/h (mph)]                            |                               | --  |
| Torque converter   | Number of elements            | Three   |
|  | Max. ratio at stall           | 2.37:1  |
|  | Type of cooling (air, liquid) | Liquid  |
|  | Nominal diameter              | 2.35 (9.25)   |
| Lubricant  | Capacity (refill L (pt.))     | 7.4 (15.74), including oil cooler lines   |
|  | Type Recommended              | ESP-M2C166-H (Ford) & ESP-M2C138-CJ/Dexron II (Mazda)   |
| Oil cooler (std., opt., NA, internal, external, air, liquid) |                               | Standard, External Combined w/Rad./Engine Coolant   |

## Axle or Front Wheel Drive Unit

|  |                              |   |  |
|--|------------------------------|---|--|
| Type (front, rear)                                     |                              | Front Wheel Drive                                       |  |
| Description  |                              | MTX II - 4-Speed; MTX III - 5-Speed;<br>ATX - Automatic |  |
| Limited slip differential (type)                       |                              | N/A   |  |
| Drive pinion offset                                    |                              | N/A   |  |
| Drive pinion (type)                                    |                              | N/A   |  |
| No. of differential pinions                            |                              | Two   |  |
| Pinion / differential adjustment (shim, other)         |                              | N/A   |  |
| Pinion / differential bearing adjustment (shim, other) |                              | Select Fit Shim (Differential)                          |  |
| Driving wheel bearing (type)                           |                              | Tapered Roller - MTX II & III; Ball - ATX               |  |
| Lubricant  | Capacity [L (pt.)]           |   | 2.9 (6.1) MTX II & III; 7.4 (15.7) ATX   |
|  | Type recommended             |   | MTX II & III (a); ATX (b) See Note Below |
|  | SAE vis-<br>cosity<br>number | Summer  | N/A                                      |
|  |                              | Winter  | N/A                                      |
|  |                              | Extreme cold  | N/A                                      |

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

|  |                     |  |
|--|---------------------|--|
| Axle ratio (or overall top gear ratio) |                     | --   |
| No. of teeth                           | Pinion              | --   |
|  | Ring gear or gear   | --   |
| Ring gear o.d.                         |                     | --   |
| Transaxle                              | Transfer gear ratio | 2.85:1 3.23:1 3.52:1 3.52/2.61:1(c) 3.73/2.73:1(c) |
|  | Final drive ratio   | 2.24:1 3.23:1 2.76:1 3.45/2.56:1 3.80/2.80:1       |

(a) Automatic Transmission Fluid ESW-M2C33F (95.2% Volume) Plus Friction Modifier  
EST-M2C118-A (4.8% by Volume).

(b) ESP-M2C166-H (Ford-ATX) & ESP-M2C138-CJ/Dexron II (Mazda ATX)

(c) MTX III is a unique arrangement utilizing dual transfer ratios, a higher numerical ratio for 1st through 4th and reverse and a lower numerical ratio for 5th.

MVMA-C-86

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (•) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

ALL MODELS

## Axle Shafts – Front Wheel Drive

|   |                                  |  |   |
|---|----------------------------------|--|---|
| Number used   |                                  | One Each, LH & RH sides - Unequal Length |   |
| Type (straight, solid bar, tubular, etc.)           | Left                             | Solid Bar                                |   |
|   | Right                            | Solid Bar                                |   |
| Outer diam. x length* x wall thickness              | Manual Transaxle 4-Speed Man.OD  | Left                                     | 26.0 x 322.0 (1.02 x 12.68)                                       |
|   |                                  | Right                                    | 26.0 x 640.0 (1.02 x 25.19)                                       |
|   | Automatic Transaxle 3-Speed Opt. | Left                                     | 26.0 x 305.0 (1.02 x 12.01)                                       |
|   |                                  | Right                                    | 26.0 x 640.0 (1.02 x 25.19)                                       |
|   | Optional Transaxle 5-Speed Man.  | Left                                     | 26.0 x 322.0 (1.02 x 12.68)                                       |
|   |                                  | Right                                    | 26.0 x 640.0 (1.02 x 25.19)                                       |
| Slip yoke   | Type                             | N/A                                      |   |
|   | Number of teeth                  | N/A                                      |   |
|   | Spline o.d.                      | N/A                                      |   |
| Universal joints                                    | Make and mfg. no.                | Inner                                    | GKN-ACI   |
|   |                                  | Outer                                    | GKN-ACI   |
|   | Number used                      | 2 Inner and 2 Outer (4 Total)            |   |
|   | Type, size, plunge               | Inner                                    | LH-C2000, DOJ-42.2(1.66)Plunge/RH-C2000, Tripod-52.3(2.05) Plunge |
|   |                                  | Outer                                    | C2000 Fixed (Rzeppa)  |
|   | Attach (u-bolt, clamp, etc.)     |  | Non-Bolted  |
|   | Bearing                          | Type (plain, anti-friction)              | N/A   |
|   |                                  | Lubrication (fitting, prepack)           | N/A   |
| Drive taken through (torque tube, arms or springs)  |                                  | N/A                                      |   |
| Torque taken through (torque tube, arms or springs) |                                  | N/A                                      |   |

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

ALL MODELS

## Suspension - General

|                                    |                         |                                |
|------------------------------------|-------------------------|--------------------------------|
| Car leveling                       | Std./opt./n.a.          | N/A                            |
|                                    | Type (air, hyd., etc.)  | --                             |
|                                    | Manual/auto. controlled | --                             |
| Provision for brake dip control    |                         | N/A                            |
| Provision for accel. squat control |                         | N/A                            |
| Provisions for car jacking         |                         | Notched Rocker Panel Positions |
| Shock absorber (front & rear)      | Type                    | Strut Type - Front and Rear    |
|                                    | Make                    | Motorcraft                     |
|                                    | Piston diameter         | 27 (1.06) Front and Rear       |
|                                    | Rod diameter            | 20 (.90) Front, 18 (.70) Rear  |

## Suspension - Front

|                                |   |   |
|--------------------------------|---|---|
| Type and description           |   | MacPherson Strut - Indep., Front Drive w/Strut Mounted Coil Spring; Stab.-Bar-Track Control Arm |
| Drive and torque taken through |   | Control Arm Bushings and Strut Mounts   |
| Travel                         | Full jounce   | 80.2 (3.15)   |
|                                | Full rebound  | 83.8 (3.29)   |
| Spring                         | Type (coil, leaf, other) & material                 | Coil, SAE-5160-H  |
|                                | Insulators (type & material)                        | Upper Helical to Match Spring and Rubber  |
|                                | Size (coil design height & i.d., bar length x dia.) | Coil 235(9.25) & 102(4.01), 2876 (113.23) x 12.8(0.50)  |
|                                | Spring rate [N/mm (lb./in.)]                        | 28 (160)  |
|                                | Rate at wheel [N/mm (lb./in.)]                      | 22.7 (130)  |
| Stabilizer                     | Type (link, linkless, frameless)                    | Linkless, Dual Function Strut/Stabilizer  |
|                                | Material & bar diameter                             | Modified 1090 & 22.0 (.87) - Base; 24.0 (.94) - Handling  |

## Suspension - Rear

|                                |   |   |
|--------------------------------|---|---|
| Type and description           |   | Modified MacPherson-Strut Type; Independent, Non-Driven w/Coil Spring on Lower Arm - Tie Bar - Cont. Arm - Forged Spindle |
| Drive and torque taken through |   | N/A   |
| Travel                         | Full jounce   | 96.7 (3.8)  |
|                                | Full rebound  | 102.3 (4.0)   |
| Spring                         | Type (coil, leaf, other) & material                                 | Coil & SAE-5160-H   |
|                                | Size (length x width, coil design height & i.d., bar length & dia.) | Coil 157.7(6.2) & 84(3.31), 2377(93.5) & 12.4(0.49)   |
|                                | Spring rate [N/mm (lb./in.)]  | 41.2 (235)  |
|                                | Rate at wheel [N/mm (lb./in.)]                                      | 16.7 (95)   |
|                                | Insulators (type & material)  | Upper Helical to Match Spring & Rubber  |
|                                | If leaf   | No. of leaves N/A<br>Shackle (comp. or tens.) N/A   |
| Stabilizer                     | Type (link, linkless, frameless)                                    | Comb. Eye & Bayonet Design (Avail. GT Model Only)   |
|                                | Material & bar diameter   | SAE-5160-H Steel-Epoxy Coated, 12(0.47)   |
| Track bar (type)               |   | Tie Bar, Double Bayonet Design-Fore/Aft; Lower Pre-Galvanized Stp   |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (•)

Body Type And/Or  
Engine Displacement

2-DOOR HATCHBACK

4-DOOR HATCHBACK  
4-DOOR WAGON

## Brakes - Service

|  |   |                                 |  |                          |
|--|---|---------------------------------|--|--------------------------|
| Description  |   |                                 | Four Wheel Hydraulic Actuated System                     |                          |
| Brake type<br>(std., opt., n.a.)                                     |   | Front (disc or drum)            | Disc   |                          |
|  |   | Rear (disc or drum)             | Drum   |                          |
| Self-adjusting (std., opt., n.a.)                                    |   |                                 | Standard   |                          |
| Special<br>valving   | Type (proportion, delay, metering, other) |                                 | Proportioning  |                          |
| Power brake (std., opt., n.a.)                                       |   |                                 | Standard   |                          |
| Booster type (remote, integral, vac., hyd., etc.)                    |   |                                 | 200 (7.87) Single Diaphragm - Integral - Vacuum          |                          |
| Vacuum source (inline, pump, etc.)                                   |   |                                 | Inline - Gasoline; Pump - Diesel                         |                          |
| Vacuum reservoir (volume in. <sup>3</sup> )                          |   |                                 | N/A w/Gasoline; 90 w/Diesel                              |                          |
| Vacuum pump-type (elec, gear driven, belt driven, if other so state) |   |                                 | N/A w/Gasoline; Electric w/Diesel                        |                          |
| Anti-skid device type (std., opt., n.a.) (F/R)                       |   |                                 | N/A  |                          |
| Effective area [cm <sup>2</sup> (in. <sup>2</sup> )]* (F/R)          |   |                                 | 163.2(25.3)/230.4(35.7)                                  | 163.2(25.3)/266.4(41.3)  |
| Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]**(F/R)       |   |                                 | 179(27.7)/230.4(35.7)                                    | 179(27.7)/281.8(43.7)    |
| Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]*** (F/R)            |   |                                 | 968(150)/348.3(54.0)                                     | 968(150)/433.7(67.2)     |
| Rotor  | Outerworking diameter                     | F/R                             | 235 (9.25)/N.A.  |                          |
|  | Inner working diameter                    | F/R                             | 152 (5.98)/N.A.  |                          |
|  | Thickness                                 | F/R                             | 24 (0.94)/N.A.   |                          |
|  | Material & type (vented/solid)            | F/R                             | Cast Iron Vented/N.A.                                    |                          |
| Drum   | Diameter & width                          | F/R                             | N.A./180(7.10)   | N.A./203(8.0)            |
|  | Type and material                         | F/R                             | N.A./Full Cast Iron                                      | N.A./Composite Cast Iron |
| Wheel cylinder bore  |   |                                 | 60 (2.36) - Front/20.6 (0.81) - Rear                     |                          |
| Master cylinder  | Bore/stroke                               | F/R                             | 19.7 (0.776)/39.7 (1.56)                                 |                          |
| Pedal arc ratio  |   |                                 | 2.81:1   |                          |
| Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]               |   |                                 | 10,860 (1575)  |                          |
| Lining clearance   |   | F/R                             | 0.13 (0.005)/0.25(0.010)                                 |                          |
| Brake<br>lining  | Front<br>wheel                            | Bonded or riveted (rivets/seg.) | Riveted 5/Seg  |                          |
|  |   | Rivet size                      | 4.7 (0.185)  |                          |
|  |   | Manufacturer                    | Thiokol  |                          |
|  |   | Lining code*****                | TP-1353M-FF w/Gasoline; TP-1471-EE w/Diesel              |                          |
|  |   | Material                        | Molded Organic w/Gasoline; Molded Semi-Metallic w/Diesel |                          |
|  |   | **** Primary or out-board       | 122x39x12.2 (4.8 x 1.54 x 0.48)                          |                          |
|  |   | Size Secondary or in-board      | 122x39.12.2 (4.8 x 1.54 x 0.48)                          |                          |
|  |   | Shoe thickness (no lining)      | 5.0 (0.197) Nominal                                      |                          |
|  | Rear<br>wheel                             | Bonded or riveted (rivets/seg.) | Bonded   | Riveted 10/Seg           |
|  |   | Manufacturer                    | Bendix   |                          |
|  |   | Lining Code*****                | BX-MO-FF 3152F   |                          |
|  |   | Material                        | Molded Organic   |                          |
|  |   | **** Primary or out-board       | 187x30.8x5.6(7.4x1.21x.22)                               | 211x34x4.5(8.3x1.34x.18) |
|  |   | Size Secondary or in-board      | 187x30.8x5.6(7.4x1.21x.22)                               | 211x34x4.5(8.3x1.34x.18) |
|  |   | Shoe thickness (no lining)      | 1.53 (.06) Nominal                                       | 1.89 (.074) Nominal      |

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

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

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

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

\*\*\*\*\*Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

BASE MODEL OR MODEL W/  
FUEL SAVER DIESEL OPTION

ALL MODELS EXCEPT BASE,  
GT OR W/FS DIESEL OPT.

## Tires And Wheels (Standard)

|        |   |                     |   |            |
|--------|---|---------------------|---|------------|
| Tires  | Size (load range, ply)                                      |                     | P175/80R13  | P165/80R13 |
|        | Type (bias, radial, etc.)                                   |                     | Steel Belted Radial   |            |
|        | Inflation pressure (cold) for recommended max. vehicle load | Front (kPa (psi))   | 207 (30)  |            |
|        |   | Rear (kPa (psi))    | 207 (30)  |            |
|        | Rev./mile—at 70 km/h (45 mph)                               |                     | 868   | 891        |
| Wheels | Type & material   |                     | Disc - Semi Styled Steel Stamped  |            |
|        | Rim (size & flange type)                                    |                     | 13 x 4.5 JJ   |            |
|        | Wheel offset  |                     | 41.4 (1.63)   |            |
|        | Attachment  | Type (bolt or stud) | Stud  |            |
|        |   | Circle diameter     | 108 (4.25)  |            |
| Spare  | Number & size   |                     | Four - 12 (0.47)  |            |
|        | Tire and wheel (same, if other describe)                    |                     | P155/80D13 BSW, 240 kPa (35 psi), Wheel 330 x 114.3(13x4.5) -41.4 (1.6) Offset - Temporal Spare |            |
|        | Storage position & location (describe)                      |                     | Flat Position, Deep Well in Cargo Floor   |            |

## Tires And Wheels (Optional)

|  |                       |
|--|-----------------------|
| Size (load range, ply)   |                       |
| Type (bias, radial, etc.)  |                       |
| Wheel (type & material)  | N/A Polycast/Steel    |
| Rim (size, flange type and offset)   | N/A (13 x 5.0 JJ) (a) |
| 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                 | Hand Operated - Manual Release           |
| Location of control             | Between Front Seats                      |
| Operates on                     | Rear Service Brakes                      |
| If separate from service brakes | Type (internal or external)              |
|                                 | Drum diameter                            |
|                                 | Lining size (length x width x thickness) |
|                                 | N/A                                      |

(a) Offset 41.4 (1.63)

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●)

Body Type And/Or  
Engine Displacement

GT MODEL ONLY

## Tires And Wheels (Standard)

|        |   |                     |   |
|--------|---|---------------------|---|
| Tires  | Size (load range, ply)                                      |                     | P195/60HR15   |
|        | Type (bias, radial, etc.)                                   |                     | Steel Belted Radial   |
|        | Inflation pressure (cold) for recommended max. vehicle load | Front (kPa (psi))   | 207 (30)  |
|        |   | Rear (kPa (psi))    | 207 (30)  |
|        | Rev./mile—at 70 km/h (45 mph)                               |                     | 861   |
| Wheels | Type & material   |                     | Cast Aluminum -8 Spoke  |
|        | Rim (size & flange type)                                    |                     | 15 x 6.0 JJ   |
|        | Wheel offset  |                     | 37.4 (1.47)   |
|        | Attachment  | Type (bolt or stud) | Stud  |
|        |   | Circle diameter     | 108 (4.25)  |
|        |   | Number & size       | Four - 12 (0.47)  |
| Spare  | Tire and wheel (same, if other describe)                    |                     | P155/80D13 BSW, 240 kPa (35 psi) Wheel 330x114.3 (13x4.5) - 41.4(1.6) Offset - Temporal Spare |
|        | Storage position & location (describe)                      |                     | Flat Position, Deep Well in Cargo Floor   |

## Tires And Wheels (Optional) (NOT APPLICABLE)

|  |  |
|--|--|
| 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                 |  | Hand Operated - Manual Release |
| Location of control             |  | Between Front Seats            |
| Operates on                     |  | Rear Service Brakes            |
| If separate from service brakes | Type (internal or external)              | N/A                            |
|                                 | Drum diameter                            | N/A                            |
|                                 | Lining size (length x width x thickness) | N/A                            |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT

Model Year 1986

Issued 9/85

Revised (•) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

ALL MODELS

## Steering

|  |   |                               |  |   |  |
|--|---|-------------------------------|--|---|--|
| Manual (std., opt., n.a.)                      |   |                               |  | Standard  |  |
| Power (std., opt., n.a.)                       |   |                               |  | Optional  |  |
| Adjustable steering wheel (tilt, swing, other) |   | Type and description          |  | Tilt 5 Position                                     |  |
|  |   | (Std., opt., n.a.)            |  | Optional  |  |
| Wheel diameter (W9) SAE J1100                  |   | Manual                        |  | 368 (14.5)  |  |
|  |   | Power                         |  | 368 (14.5)  |  |
| Turning diameter m (ft.)                       | Outside front                             | Wall to wall (l. & r.)        |  |   |  |
|  |   | Curb to curb (l. & r.)        |  | 10.9 (35.7) (Exc. 11.4 (37.25 w/P195/60HR15 Tires)) |  |
|  | Inside rear                               | Wall to wall (l. & r.)        |  |   |  |
|  |   | Curb to curb (l. & r.)        |  |   |  |
| Scrub Radius*                                  |   |                               |  | -2.6 (-.10)   |  |
| Manual   | Gear                                      | Type                          |  | Rack and Pinion                                     |  |
|  |   | Make                          |  | Cam Gear Ltd.                                       |  |
|  |   | Ratios                        | *  | 10.36° per mm of Rack Travel                        |  |
|  |   |                               | Overall                                  | 21.2:1 (on center)                                  |  |
|  | No. wheel turns (stop to stop)            |                               | 3.5                                      |   |  |
| Power  | Type (coaxial, linkage, etc.)             |                               | Integral Rack and Pinion                 |   |  |
|  | Make                                      |                               | TRW Gear - Ford Pump, Fluid ESP-M2C138CJ |   |  |
|  | Gear                                      | Type                          |  | Rack and Pinion (Constant Ratio)                    |  |
|  |   | Ratios                        | *  | 8.93°/mm of Rack Travel                             |  |
|  |   |                               | Overall                                  | 18.3:1 (on Center)                                  |  |
|  | Pump (drive)                              |                               | Belt Off Crankshaft Pulley               |   |  |
|  | No. wheel turns (stop to stop)            |                               | 3.04                                     |   |  |
| Linkage  | Type                                      |                               | Integral with Wheel                      |   |  |
|  | Location (front or rear of wheels, other) |                               | Rear                                     |   |  |
|  | Tie rods (one or two)                     |                               | 2 Integral with Gear                     |   |  |
|  | Inclination at camber (deg.)              |                               | Left -- 14.64°; Right -- 15.09°          |   |  |
| Steering axis                                  | Bearings (type)                           | Upper                         |  | Shock Strut Shaft                                   |  |
|  |   | Lower                         |  | Ball Joint  |  |
|  |   | Thrust                        |  | N/A   |  |
|  |   | Steering spindle & joint type |  | Cast Spindle Support w/Integral Strg. Arm           |  |
| Wheel Hub                                      | Diameter                                  | Inner bearing                 |  | 34.98 - 34.957 (1.38 - 1.376)                       |  |
|  |   | Outer bearing                 |  | 34.98 - 34.957 (1.39 - 1.376)                       |  |
|  | Thread (size)                             |                               | CV Joint Outer Race M20 x 1.5            |   |  |
|  | Bearing (type)                            |                               | Non-Adjustable Tapered Roller            |   |  |

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

\* Rack Speed

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (•) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

ALL MODELS

## Wheel Alignment

|                                |                          |                                 |  |
|--------------------------------|--------------------------|---------------------------------|--|
| Front wheel at curb mass (wt.) | Service checking         | Caster (deg.)                   | +2.44°, Min + 1.69°/Max + 3.19° (a)                            |
|                                |                          | Camber (deg.)                   | Left +1.38°, Min+0.63°/Max+2.13°; Rt+0.94°, Min+0.19/Max+1.69° |
|                                |                          | Toe-in [outside track-mm (in.)] | -2.54, Min-5.59/Max +0.51 (-0.10, Min-0.22/Max+0.02) (b)       |
|                                | Service reset*           | Caster                          | Factory Set and cannot be Adjusted                             |
|                                |                          | Camber                          | Factory Set and cannot be Adjusted                             |
|                                |                          | Toe-in                          | -2.54, Min-5.59/Max+0.51(-0.10, Min-0.22/Max+0.02)             |
|                                | Periodic M.V. inspection | Caster                          | +2.44°, Min +1.69/Max +3.19° (a)                               |
|                                |                          | Camber                          | Left +1.38°, Min+0.63°/Max+2.13°, Rt+0.94°, Min+0.19/Max+1.69° |
|                                |                          | Toe-in                          | -2.54, Min-5.59/Max +0.51(-0.10, Min-0.22/Max +0.02) (b)       |
| Rear wheel at curb mass (wt.)  | Service checking         | Camber (deg.)                   | -1.19°, Min -2.04°/Max -0.34° (c)                              |
|                                |                          | Toe-in [outside track-mm (in.)] | +4.57, Min+9.14/Max0.0(+0.18, Min+0.36/Max0.0) (d)             |
|                                | Service reset*           | Camber                          | Factory Set and cannot be Adjusted                             |
|                                |                          | Toe-in                          | +4.57, Min+9.14/Max0.0(+0.18, Min+0.36/Max0.0) (d)             |
|                                | Periodic M.V. inspection | Camber                          | -1.19°, Min-2.04°/Max-0.34° (c)                                |
|                                |                          | Toe-in                          | +4.57, Min+9.14/Max0.0(+0.18, Min+0.36/Max0.0) (d)             |

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

## Electrical - Instruments and Equipment

|                           |  |  |
|---------------------------|--|--|
| Speed-ometer              | Type   | Pointer  |
|                           | Trip odometer (std., opt., n.a.)                 | Optional                                       |
| EGR maintenance indicator |  | None   |
| Charge indicator          | Type   | None   |
|                           | Warning device                                   | Light  |
| Temperature indicator     | Type   | Optional Temperature Gauge                     |
|                           | Warning device                                   | Light  |
| Oil pressure indicator    | Type   | None   |
|                           | Warning device                                   | Light  |
| Fuel indicator            | Type   | Gauge (45° indicator)                          |
|                           | Warning device                                   | Lo-Fuel Warning Light (w/Lower Console) (Opt.) |
| Wind-shield wiper         | Type (standard)                                  | Two speed electric (column mounted control)    |
|                           | Type (optional)                                  | Interval wipe (column mounted control)         |
|                           | Blade length                                     | 454 (18.0)                                     |
|                           | Swept area [cm <sup>2</sup> (in. <sup>2</sup> )] | 4792 (742.7)                                   |
| Wind-shield washer        | Type (standard)                                  | Electric Pump (Impeller type)                  |
|                           | Type (optional)                                  | None   |
|                           | Fluid level indicator                            | Optional (warning light)                       |
| Horn                      | Type   | Air Electric                                   |
|                           | Number used                                      | One hi-pitch (std.); one lo-pitch (opt.)       |
| Other                     |  |  |

- (a) Max. Side to Side Difference Not to Exceed + 0.75°  
 (b) Max. Side to Side (Left/Right) to be 0.44° -0.31° to +1.19  
 (c) Max. Side to Side Difference Not to Exceed + 1.2°  
 (d) Toe-In (Individual Sides) + 2.29, Min-6.10 (Max +1.52(0.09, Min -0.24/Max +0.06)



**MVMA Specifications Form  
Passenger Car**

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

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (e) \_\_\_\_\_

---

Electrical - Instruments and Equipment (Continued):

- . Brake System Warning Light
- . Directional Turn Signal Lights
- . Emergency Flashers
- . Headlamp "ON" Warning Buzzer
- . Hi-Beam Indicator
- . Fasten Seat Belt Warning Light
- . Cigar Lighter
- . Fog Lamps
- . Graphic Display Module
- . Trip Odometer (Opt.) (Std. w/GT)
- . Up-shift light w/manual transmission and gasoline engine only (not avail. Canada)
- . Lift Gate Ajar Warning Light
- . Rear Washer/Wipe

# MVMA Specifications Form Passenger Car

Car Line ESCORT

Model Year 1986

Issued 9/85

Revised (•)

METRIC (U.S. Customary)

Engine Description/Carb.  
Engine Code

1.9L/2V

1.9L/EFI

## Electrical - Supply System

|                         |                          |  |                  |
|-------------------------|--------------------------|--|------------------|
| Battery                 | Make                     | Motorcraft   |                  |
|                         | Model, std., (opt.)      | Standard   |                  |
|                         | Voltage                  | 12 Volt  |                  |
|                         | Amps at 0°F cold crank   | 310 (a); 380 (b); 410 (c); 450 (d)                         | 410 (a); 450 (d) |
|                         | Minutes-reserve capacity | 60 (a); 75 (b); 82 (c); 90 (d)                             | 82 (a); 90 (d)   |
|                         | Amp/hrs. - 20 hr. rate   | 36 (a); 45 (b); 48 (c); 54 (d)                             | 48 (a); 54 (d)   |
|                         | Location                 | Low-Silhouette - Mtd in LH Apron<br>Forward of Strut Tower |                  |
| Generator or alternator | Type and rating          | E6EF-FA (40 Amp)   |                  |
|                         | Ratio (alt. crank/rev.)  | 2.33:1   |                  |
|                         | Optional (type & rating) | E6EF-GA (60 Amp)   |                  |
| Regulator               | Type                     | Electronic Integral w/Alternator                           |                  |

## Electrical - Starting System

|              |                                   |              |
|--------------|-----------------------------------|--------------|
| Start, motor | Current drain at 0°F              | 255-280 Amps |
| Motor drive  | Engagement type                   | Positive     |
|              | Pinion engages from (front, rear) | Front        |

## Electrical - Ignition System

|             |                                  |                    |          |
|-------------|----------------------------------|--------------------|----------|
| Type        | Electronic (std., opt., n.a.)    | Standard           |          |
|             | Other (specify)                  | N.A.               |          |
| Coil        | Make                             | Motorcraft         |          |
|             | Model                            | E2EF-AA            |          |
|             | Current                          | Engine stopped - A | 5.0      |
|             |                                  | Engine idling - A  | 2.5      |
| Spark plug  | Make                             | Motorcraft         |          |
|             | Model                            | AWSF-34C           | AWSF-24C |
|             | Thread (mm)                      | 14                 |          |
|             | Tightening torque [N·m (lb. ft)] | 10-20 (7-14)       |          |
|             | Gap                              | 1.12 (0.44)        |          |
|             | Number per cylinder              | One                |          |
| Distributor | Make                             | Motorcraft         |          |
|             | Model                            | Breakerless        |          |

## Electrical - Suppression

|                  |   |
|------------------|---|
| Locations & type | Capacitor in Alternator, Ground Strap Between Engine Block and Shock Tower. Resistor Spark Plugs and Resistance Ignition Wire. Capacitor at Ignition Coil (w/1.9L-2V). Ground Strap Between Exhaust Pipe & Strg. Bracket.<br>(Opt.)-Interval W.Wipe-Jumped;Two Varistors w/Electric Mirrors |
|------------------|---|

- (a) Standard
- (b) Included with Manual Trans. and Power Steering
- (c) Included with Auto. Trans
- (d) Optional Heavy Duty Battery

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (•) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

2.0L

## Electrical – Supply System

|                         |                          |                                  |
|-------------------------|--------------------------|----------------------------------|
| Battery                 | Make                     | Motorcraft                       |
|                         | Model, std., (opt.)      | Standard                         |
|                         | Voltage                  | 12 Volt                          |
|                         | Amps at 0°F cold crank   | 1050                             |
|                         | Minutes-reserve capacity | 165                              |
|                         | Amp/hrs. - 20 hr. rate   | 90                               |
|                         | Location                 | Left Hand Rear of Cargo Area     |
| Generator or alternator | Type and rating          | E6EF-HA (60 Amp)                 |
|                         | Ratio (alt. crank/rev.)  | 2.36:1 (2.75:1 w/65 Amp)         |
|                         | Optional (type & rating) | E6EF-JA (65 Amp) (a)             |
| Regulator               | Type                     | Electronic Integral w/Alternator |

## Electrical – Starting System

|              |                                   |              |
|--------------|-----------------------------------|--------------|
| Start, motor | Current drain at 0°F              | 500-520 Amps |
| Motor drive  | Engagement type                   | Positive     |
|              | Pinion engages from (front, rear) | Front        |

## Electrical – Ignition System (Not Applicable)

|             |                                   |                    |
|-------------|-----------------------------------|--------------------|
| Type        | Electronic (std., opt., n.a.)     |                    |
|             | Other (specify)                   |                    |
| Coil        | Make                              |                    |
|             | Model                             |                    |
|             | Current                           | Engine stopped – A |
|             |                                   | Engine idling – A  |
| Spark plug  | Make                              |                    |
|             | Model                             |                    |
|             | Thread (mm)                       |                    |
|             | Tightening torque [N-m (lb. ft.)] |                    |
|             | Gap                               |                    |
|             | Number per cylinder               |                    |
| Distributor | Make                              |                    |
|             | Model                             |                    |

## Electrical – Suppression

|                  |  |
|------------------|--|
| Locations & type | Capacitor in Alternator, Ground Strap Between Engine Block and Shock Tower.<br>Ground Strap Between Exhaust Pipe & Steering Bracket. |
|------------------|--|

(a) Included with A/C

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (•) \_\_\_\_\_

Body Type

ALL MODELS

## Body

|                               |   |
|-------------------------------|---|
| Structure                     | Unitized All-Steel Welded Body With One-Piece Side Stampings and Energy-Absorbing Front and Rear Structures.  |
| Bumper system<br>front - rear | Front - 7029 Aluminum (Anodized)<br>Front/Rear - Will Withstand 5 mph Impact from 15° Pendulum on Center-Line of Car Without Damage.<br>Rear - HSLA 960 Steel or 7029 Aluminum 10.0   |
| Anti-corrosion treatment      | <ul style="list-style-type: none"> <li>Major Exterior &amp; Underbody Sheet Metal Components and Panels Pre-Coated (Galvanized) Steel</li> <li>Body Cathodically Electrocoat Primed</li> <li>Urethane Chip Resistant Primer or Plastic Cladding on Lower Body Sides</li> <li>Grille: Polyester or A.B.S. Painted</li> </ul> |

## Body - Miscellaneous Information

|   |   |   |
|---|---|---|
| Type of finish (lacquer, enamel, other)                         |   | Enamel (Acrylic)  |
| Hood  | Hinge location (front, rear)                  | Rear  |
|   | Type (counterbalance, prop)                   | Prop  |
|   | Release control (internal, external)          | Internal (Primary) Cable Release - External (Secondary) |
| Trunk lid   | Type (counterbalance, other)                  | N.A.  |
|   | Internal release control (elec., mech., n.a.) | N.A.  |
| Hatch-back lid  | Type (counterbalance, other)                  | Gas Struts  |
|   | Internal release control (elec., mech., n.a.) | Electric (Option; Std. w/GL Sedan & GT Model)           |
|   |   |   |
|   |   |   |
|   |   |   |
| Vent window control (crank, friction, pivot, power)             | Front   | Manual Latch (Option)                                   |
|   | Rear  | N.A.  |
| Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.) | Front   | Stamped Frame - Coil Springs & Flexolator - Foam Pad    |
|   | Rear  | Integral Frame & Foam Pad Assembly                      |
|   | 3rd seat                                      | None  |
| Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)    | Front   | Stamped Frame - Foam Pad                                |
|   | Rear  | Plastic Load Floor - Foam Pad Assy. Fold-Down Type      |
|   | 3rd seat                                      | N.A.  |
|   |   |   |

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

Car Line ESCORT  
 Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

Body Type

ALL MODELS

**Restraint System**

|                         |                      |   |                 |
|-------------------------|----------------------|---|-----------------|
| Active restraint system | Standard/optional    | Standard - Color Keyed Webbing - Rear<br>Standard - Color Keyed Webbing with Tension Eliminator - Front |                 |
|                         | Type and description | Continuous Loop - Front   | Lap Only - Rear |
|                         | Location             | 2 Seat Belts - Front  | 2 - Rear        |
| Passive seat belts      | Standard/optional    | N/A   |                 |
|                         | Power/manual         | N/A   |                 |
|                         | 2 or 3 point         | N/A   |                 |
|                         | Knee bar/lap belt    | N/A   |                 |

**Frame**

|   |                     |                                 |                     |
|---|---------------------|---------------------------------|---------------------|
| Type and description (separate frame, unitized frame, partially-unitized frame)       |                     | Unitized Construction           |                     |
| <b>Glass</b>  | <b>SAE Ref. No.</b> | <b>2-DOOR, 4-DOOR HATCHBACK</b> | <b>4-DOOR WAGON</b> |
| Windshield glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]           | S1                  | 6939 (1076)                     |                     |
| Side glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )] - total 2-sides | S2                  | 10771 (1671)                    | 14501 (2248)        |
| Backlight glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]            | S3                  | 7681 (1191)                     | 4977 (772)          |
| Total glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]                | S4                  | 25390 (3937)                    | 26418 (4095)        |
| Windshield glass (type)   |                     | Laminated                       |                     |
| Side glass (type)   |                     | Tempered - Safety               |                     |
| Backlight glass (type)  |                     | Tempered                        |                     |

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

Car Line ESCORT  
 Model Year 1986 Issued 9/85 Revised (•) \_\_\_\_\_

Body Type

ALL MODELS

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

|   |  |   |
|---|--|---|
| Air conditioning (manual, auto. temp control) |  | Optional, Manual Temperature Control                    |
| Clock (digital, analog)                       |  | Optional, Digital                                       |
| Compass / thermometer                         |  | N.A.  |
| Console (floor, overhead)                     |  | Optional, Floor/Optional, Overhead                      |
| Defroster, elec. backlight                    |  | Optional (Mandatory in New York State)                  |
| Electronic                                    | Diagnostic warning (integrated, individual)  | N.A.  |
|   | Instrument cluster (list instruments)  | N.A.  |
|   | Keyless entry  | N.A.  |
|   | Tripminder (avg. spd., fuel)   | N.A.  |
|   | Voice alert (list items)   | N.A.  |
|   | Other Headlamp Buzzer  | Optional, Warning                                       |
|   | Graphic Display Warning  | Optional, Indicator                                     |
| Fuel door lock (remote, key, electric)        |  | Optional, Electric                                      |
| Lamps   | Auto head on / off delay, dimming  | N.A.  |
|   | Cornering  | N.A.  |
|   | Courtesy (map, reading)  | Optional  |
|   | Door lock, ignition  | N.A.  |
|   | Engine compartment   | Optional  |
|   | Fog  | Optional  |
|   | Glove compartment  | Optional  |
|   | Trunk / Cargo  | Optional  |
|   | Other  | Standard, High Mount Stop Lamp                          |
| Mirrors                                       | Day/night (auto. man.)   | Standard, Manual  |
|   | L.H. (remote, power, heated)   | Optional, Remote  |
|   | R. H. (convex, remote, power, heated)  | Optional, Remote Convex                                 |
|   | Visor vanity (RH / LH, illuminated)  | Optional, LH (Not Illuminated)/RH (Illuminated)         |
| Parking brake-auto release (warning light)    |  | N.A.  |
| Power equipment                               | Door locks / deck lid - specify  | Optional, Decklid                                       |
|   | 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.  |
|   | Vent windows   | N.A.  |
|   | Rear window  | N.A.  |
|   |  |   |
| Radio systems                                 | Antenna (location, whip, w/shield, power)  | Whip - Right Hand Fender                                |
|   | AM, FM, stereo, tape, CB   | (a)   |
|   | Speaker (number, location) Premium sound   | Optional, Amp. with Front Door Speakers & Rear Speakers |
| Roof open air/fixd (flip-up, sliding, "T")    |  | N.A.  |
| Speed control device                          |  | Optional  |
| Speed warning device (light, buzzer, etc.)    |  | N.A.  |
| Tachometer (rpm)                              |  | 6000 (Diesel); 7000 (Gasoline)                          |
| Theft protection-type                         |  | N.A.  |

(a) AM Radio Optional on Base Vehicle, Standard on High Series Models.

Optional Radios: AM/FM Stereo, AM/FM Stereo w/Cassette

# MVMA Specifications Form

## Passenger Car

**METRIC (U.S. Customary)**  
**Car and Body Dimensions**

See Key Sheets for definitions

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

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

| Body Type                        | SAE Ref. No. | 2-DOOR HATCHBACK (EXC. GT MODEL) | 2-DOOR GT MODEL ONLY | 4-DOOR HATCHBACK | 4-DOOR WAGON |
|----------------------------------|--------------|----------------------------------|----------------------|------------------|--------------|
| <b>Width</b>                     |              |                                  |                      |                  |              |
| Tread (front)                    | W101         | 1390 (54.7)                      |                      |                  |              |
| Trear (rear)                     | W102         | 1422 (56.0)                      |                      |                  |              |
| Vehicle width                    | W103         | 1673 (65.9)                      |                      |                  |              |
| Body width at Sg RP (front)      | W117         | 1601 (63.0)                      |                      |                  |              |
| Vehicle width (front doors open) | W120         | 3662 (144.2)                     |                      | 3186 (125.4)     |              |
| Vehicle width (rear doors open)  | W121         | --                               |                      | 3049 (120.0)     |              |
| Front fender overall width       | W106         | 1620 (63.8)                      |                      |                  |              |
| Rear fender overall width        | W107         | 1673 (65.9)                      |                      |                  |              |
| Tumble-home (deg.)               | W122         | 20.5°                            |                      |                  |              |

### Length

|                                |      |              |  |              |  |
|--------------------------------|------|--------------|--|--------------|--|
| Wheelbase                      | L101 | 2393 (94.2)  |  |              |  |
| Vehicle length                 | L103 | 4238 (166.9) |  | 4267 (168.0) |  |
| Overhang (front)               | L104 | 898 (35.4)   |  |              |  |
| Overhang (rear)                | L105 | 947 (37.3)   |  | 976 (38.4)   |  |
| Upper structure length         | L123 | 2681 (105.6) |  | 2809 (110.6) |  |
| Rear wheel C/L "X" coordinate  | L127 | 2166 (85.3)  |  |              |  |
| Cowl point "X" coordinate      | L125 | 187 (7.37)   |  |              |  |
| Front end length at centerline | L126 | 1165 (45.9)  |  |              |  |
| Rear end length at centerline  | L129 | 154 (6.06)   |  | 41 (1.61)    |  |

### Height\*

|                                     |         |             |             |             |            |
|-------------------------------------|---------|-------------|-------------|-------------|------------|
| Passenger distribution (front/rear) | PD1,2,3 | 2/1         |             |             |            |
| Trunk/cargo load                    |         | 0           |             |             |            |
| Vehicle height                      | H101    | 1360 (53.5) | 1357 (53.4) | 1360 (53.5) |            |
| Cowl point to ground                | H114    | 919 (36.2)  |             |             |            |
| Deck point to ground                | H138    | 907 (35.7)  |             |             | 834 (32.8) |
| Rocker panel-front to ground        | H112    | 198 (7.8)   |             | 201 (7.9)   | 200 (7.9)  |
| Bottom of door closed-front to grd. | H133    | 270 (10.6)  |             | 276 (10.9)  | 269 (10.6) |
| Rocker panel-rear to ground         | H111    | 189 (7.5)   |             | 196 (7.7)   | 186 (7.3)  |
| Bottom of door closed-rear to grd.  | H135    | --          |             | 277 (10.9)  | 267 (10.5) |
| Windshield slope angle              | H122    | 55°         |             |             |            |
| Backlight slope angle               | H121    | 61.6°       |             |             | 33.9°      |

### Ground Clearance\*

|   |      |                        |                 |               |               |
|---|------|------------------------|-----------------|---------------|---------------|
| Front bumper to ground                      | H102 | 371 (14.6)             | 390.8 (15.4)    |               | 379 (14.9)    |
| Rear bumper to ground                       | H104 | 320 (12.6)             | 351.8 (13.9)    | 319 (12.6)    | 327 (12.9)    |
| Bumper to ground [front at curb mass (wt.)] | H103 | 388 (15.3)             | 393.7 (15.5)    |               |               |
| Bumper to ground [rear at curb mass (wt.)]  | H105 | 390 (15.4)             | 371.5 (14.6)    |               |               |
| Angle of approach (degrees)                 | H106 | 22.5°                  | 16.0°           |               |               |
| Angle of departure (degrees)                | H107 | 21°                    | 14.5°           | 21.1°         | 22.5°         |
| Ramp breakover angle (degrees)              | H147 | 14.6°                  | 14.8°           |               | 20°           |
| Axle differential to ground (front / rear)  | H153 | N/A                    |                 |               |               |
| Min. running ground clearance               | H156 | 130 (5.1) (a)          | 140.6 (5.5) (a) | 135 (5.3) (b) | 124 (4.9) (b) |
| Location of min. run. grd. clear.           |      | Exhaust System (a) (b) |                 |               |               |

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

Manufacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

(a) At 4175 Longitudinal Coordinate

(b) At 2940 Longitudinal Coordinate

MVMA-C-86

# MVMA Specifications Form

## Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line ESCORT

Model Year 1986

Issued 9/85

Revised (●)

Body Type

| SAE Ref. No. | 2-DOOR<br>HATCHBACK<br>(EXC. GT MODEL) | 2-DOOR<br>GT MODEL<br>ONLY | 4-DOOR<br>HATCHBACK | 4-DOOR<br>WAGON |
|--------------|--|----------------------------|---------------------|-----------------|
|--------------|--|----------------------------|---------------------|-----------------|

### Front Compartment

|  |     |             |            |            |            |
|--|-----|-------------|------------|------------|------------|
| Sg RP front, "X" coordinate              | L31 | 3104 (43.4) |            |            |            |
| Effective head room                      | H61 | 963 (37.9)  |            |            |            |
| Max. eff. leg room (accelerator)         | L34 | 1055 (41.5) |            |            |            |
| SgRP to heel point                       | H30 | 260 (10.2)  |            |            |            |
| SgRP to heel point                       | L53 | 843 (33.2)  |            |            |            |
| Back angle                               | L40 | 24°         |            |            |            |
| Hip angle                                | L42 | 94.8°       |            |            |            |
| Knee angle                               | L44 | 122.1°      |            |            |            |
| Foot angle                               | L46 | 87°         |            |            |            |
| Design H-point front travel              | L17 | 180 (7.1)   |            |            |            |
| Normal driving & riding seat track trvl. | L23 | 160 (6.30)  |            |            |            |
| Shoulder room                            | W3  | 1304 (51.3) |            |            |            |
| Hip room                                 | W5  | 1318 (51.9) |            |            |            |
| Upper body opening to ground             | H50 | 1247 (49.1) | 1242(48.9) | 1247(49.1) | 1239(48.8) |
| Steering wheel maximum diameter          | W9  | 368 (14.5)  |            |            |            |
| Steering wheel angle                     | H18 | 26.2°       |            |            |            |
| Accel. heel pt. to steer. whl. cntr      | L11 | 473 (18.6)  |            |            |            |
| Accel. heel pt. to steer. whl. cntr      | H17 | 628 (24.7)  |            |            |            |
| Steering wheel to C/L of thigh           | H13 | 88 (3.46)   |            |            |            |
| Steering wheel torso clearance           | L7  | 354 (13.9)  |            |            |            |
| Headlining to roof panel (front)         | H37 | 18 (0.7)    |            |            |            |
| Undepressed floor covering thickness     | H67 | 20 (0.8)    |            |            |            |

### Rear Compartment

|                                    |     |             |            |            |           |
|------------------------------------|-----|-------------|------------|------------|-----------|
| Sg RP Point couple distance        | L50 | 751 (29.6)  |            |            |           |
| Effective head room                | H63 | 947 (37.3)  |            |            | 971(38.2) |
| Min. effective leg room            | L51 | 891 (35.1)  |            |            |           |
| Sg RP (second to heel)             | H31 | 303 (11.9)  |            |            |           |
| Knee clearance                     | L48 | 19 (0.7)    |            |            |           |
| Compartment room                   | L3  | 660 (26.0)  |            |            |           |
| Shoulder room                      | W4  | 1312 (51.6) | 1306(51.4) |            |           |
| Hip room                           | W6  | 1121 (44.1) | 1127(44.4) |            |           |
| Upper body opening to ground       | H51 | --          | 1252(49.3) | 1240(48.8) |           |
| Back angle                         | L41 | 24°         |            |            |           |
| Hip angle                          | L43 | 85°         |            |            |           |
| Knee angle                         | L45 | 88°         |            |            |           |
| Foot angle                         | L47 | 118°        |            |            |           |
| Headlining to roof panel (second)  | H38 | 18 (0.7)    |            |            |           |
| Depressed floor covering thickness | H73 | 20 (0.8)    |            |            |           |

### Luggage Compartment

|                                       |      |            |           |           |           |
|---------------------------------------|------|------------|-----------|-----------|-----------|
| Usable luggage capacity [L (cu. ft.)] | V1   | --         |           |           |           |
| Liftover height                       | H195 | 804 (31.7) | 801(31.5) | 804(31.7) | 544(21.4) |

### Interior Volumes (EPA Classification)

|   |  |         |       |       |
|---|--|---------|-------|-------|
| Vehicle class (subcompact, compact, etc.) |  | Compact |       | Small |
| Interior volume index (cu. ft.)           |  | 102.1   | 101.9 | 114.6 |
| Trunk/cargo index (cu. ft.)               |  | 16.4    |       | 28.0  |



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

Car Line ESCORT  
 Model Year 1986 Issued 9/85 Revised (●) \_\_\_\_\_

See Key Sheets for definitions

Body Type

SAE  
Ref.  
No.

**Station Wagon – Third Seat**

(NOT APPLICABLE)

|                       |     |  |
|-----------------------|-----|--|
| 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 | N/A         |
| Cargo length (open second)                               | L201 | N/A         |
| Cargo length (closed front)                              | L202 | 1499 (59.0) |
| Cargo length (closed second)                             | L203 | 874 (34.4)  |
| Cargo length at belt (front)                             | L204 | 1429 (56.2) |
| Cargo length at belt (second)                            | L205 | 680 (26.8)  |
| Cargo width (wheelhouse)                                 | W201 | 907 (35.7)  |
| Rear opening width at floor                              | W203 | 1026 (40.4) |
| Opening width at belt                                    | W204 | 1210 (47.6) |
| Max. rear opening width above belt                       | W205 | 949 (37.4)  |
| Cargo height   | H201 | 891 (35.0)  |
| Rear opening height                                      | H202 | 793 (31.2)  |
| Tailgate to ground height                                | H250 | 542 (21.3)  |
| Front seat back to load floor height                     | H197 | 564 (22.2)  |
| Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]  | V2   | 1.66 (58.8) |
| Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )] | V4   | N/A         |
| Cargo volume, index-rear of 2-seat                       | V10  | 0.89 (28.0) |

**Hatchback – Cargo Space**

2-Door & 4-Door  
Hatchback

|  |      |             |
|--|------|-------------|
| Cargo length at front seatback height                    | L208 | 1061 (41.8) |
| Cargo length at floor (front)                            | L209 | 1501 (59.1) |
| Cargo length at second seatback height                   | L210 | 553 (21.8)  |
| Cargo length at floor (second)                           | L211 | 878 (34.6)  |
| Front seatback to load floor height                      | H197 | 525 (20.7)  |
| Second seatback to load floor height                     | H198 | 496 (19.5)  |
| Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]  | V3   | 1.06 (37.5) |
| Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )] | V4   | N/A         |
| Cargo volume index-rear of 2-seat                        | V11  | 0.46 (16.4) |

**Aerodynamics\***

2-Door & 4-Door  
Hatchback

4-Door  
Wagon

|   |                |                |
|---|----------------|----------------|
| Wheel lip to ground, front                        | 632.5 (24.9)   |                |
| Wheel lip to ground, rear                         | 604.5 (23.8)   | 574 (22.6)     |
| Frontal area [m <sup>2</sup> (ft. <sup>2</sup> )] | 1.8 (19.9) (a) | 1.9 (20.1) (a) |
| Drag coefficient (Cd)                             | .40            | .39            |

\* EPA Loaded Vehicle Weight, Loading Conditions

(a) Includes Two Outside Mirrors

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

Car Line ESCORT  
 Model Year 1986 Issued 9/85 Revised (•) \_\_\_\_\_

Body Type

2-DOOR HATCHBACK

4-DOOR HATCHBACK  
 4-DOOR WAGON

**Vehicle Fiducial Marks**

| Fiducial Mark Number* | Define Coordinate Location  |              |              |  |
|-----------------------|---|--------------|--------------|--|
| 1 & 2<br><br>Front    | <p>The rear vertical edge of the master control notch on the underside of the front door rocker panels locates the "X" coordinate relative to body grid and is located at the 2264 (89) line.</p> <p>(Front Location) (Rear Location) (Front Location) (Rear Location)</p> <p>X = 2535 (99.8) X = 3300 (129.9) X = 2535 (99.8) X = 3600 (141.7)</p> <p>Y = 721 (28.4) Y = 721 (28.4) Y = 721 (28.4) Y = 721 (28.4)</p> <p>Z = 486 (19.1) Z = 479 (18.9) Z = 486 (18.9) Z = 477 (18.8)</p> |              |              |  |
| 3 & 4<br><br>Rear     | <p>The intersection of the horizontal-vertical surfaces on the rocker panel door rabbet locates the "Y" and "Z" coordinates relative to body grid at particular fore-aft inch lines. The fore-aft location can be determined by the reference dimension from - Fiducial Mark 1 &amp; 2.</p>   |              |              |  |
| Fiducial Mark Number  |   |              |              |  |
| Front                 | W21   | 721 (28.3)   |              |  |
|                       | L54   | 2535 (99.8)  |              |  |
|                       | H81   | 486 (19.1)   |              |  |
|                       | H161  | --           |              |  |
|                       | H163  | --           |              |  |
| Rear                  | W22   | 721 (28.4)   | 721 (28.4)   |  |
|                       | L55   | 3300 (129.9) | 3600 (141.7) |  |
|                       | H82   | 479 (18.9)   | 477 (18.8)   |  |
|                       | H162  | --           | --           |  |
|                       | H164  | --           | --           |  |

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

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

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (•) \_\_\_\_\_

Body Type

ALL MODELS

**Lamps and Headlamp Shape\***

2-DOOR, 4-DOOR HATCHBACK

4-DOOR WAGON

|   |                          |           |                                 |            |
|---|--------------------------|-----------|---------------------------------|------------|
| Height above ground to center of bulb or marker | Headlamp<br>(SAE - H127) | Highest** | 636.8 (25.1)                    |            |
|   |                          | Lowest    | --                              |            |
|   | Taillamp<br>(SAE - H128) | Highest** | 697.9 (27.5)                    | 632 (24.9) |
|   |                          | Lowest    | 697.9 (27.5)                    | 632 (24.9) |
|   | Sidemarker               | Front     | 651.7 (25.7)                    |            |
|   |                          | Rear      | 697.9 (27.5)                    | 632 (24.9) |
| Distance from C/L of car to center of bulb      | Headlamp                 | Inside    | --                              |            |
|   |                          | Outside** | 506.5 (19.9)                    |            |
|   | Taillamp                 | Inside    | 661 (26)                        | 693 (27.3) |
|   |                          | Outside** | 661 (26)                        | 693 (27.3) |
|   | Directional              | Front     | 679 (26.7)                      |            |
|   |                          | Rear      | 506 (19.9)                      | 693 (27.3) |
|   |                          |           |                                 |            |
|   |                          |           |                                 |            |
| Halogen headlamp<br>(std., opt., n.a.)          | Lo beam                  | **        | Standard                        |            |
|   | Hi beam                  |           | Standard                        |            |
|   | Replaceable bulb         |           | Yes, 9004, Standard             |            |
|   | Shape                    |           | Single, Rectangular, Aero Lamps |            |
| Headlamp other than above                       | Lo beam                  |           | --                              |            |
|   | Hi beam                  |           | --                              |            |
|   | Replaceable              |           | --                              |            |
|   | Shape                    |           | --                              |            |
|   | Type                     |           | --                              |            |

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

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

Model Year 1986

Issued 9/85

Revised (●)

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

\*\* Shipping mass (weight) definition - Less Engine Coolant and Fuel

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (•) \_\_\_\_\_

|                         | Optional Equipment Differential Mass (weight)* |              |               |  |
|-------------------------|--|--------------|---------------|--|
| Equipment               | MASS, kg. (weight, lb.)                        |              |               | Remarks  |
|                         | Front  | Rear         | Total         |  |
| POWERTRAINS:            |  |              |               |  |
| ENGINE:                 |  |              |               |  |
| 1.9L-2V                 | -2.7<br>(-6)                                   | 0<br>(0)     | -2.7<br>(-6)  | Optional w/Base (Pony) & L Series<br>2-Door & 4-Door Hatchback |
| 2.0L Diesel             | 25.4<br>(56)                                   | 41.7<br>(92) | 67.1<br>(148) |  |
| 2.0L FS Diesel          | 25.8<br>(57)                                   | 41.7<br>(92) | 67.5<br>(149) |  |
| TRANSAXLES:             |  |              |               |  |
| 5-Spd. Manual (MTX III) | 5.4<br>(12)                                    | -0.9<br>(-2) | 4.5<br>(10)   |  |
| 3-Spd. Automatic (ATX)  | 24.9<br>(55)                                   | -3.6<br>(-8) | 21.3<br>(63)  |  |
| SUSPENSIONS:            |  |              |               |  |
| HD Fleet                | 2.3<br>(5)                                     | .4<br>(1)    | 2.7<br>(6)    |  |
| WHEELS:                 |  |              |               |  |
| Polycast/Steel          | 3.2<br>(7)                                     | 3.2<br>(7)   | 6.4<br>(14)   |  |
| WHEEL TRIM:             |  |              |               |  |
| Trim Rings              | .9<br>(2)                                      | .4<br>(1)    | 1.3<br>(3)    |  |

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT

Model Year 1986

Issued 9/85

Revised (●)

## Optional Equipment Differential Mass (weight)\*

| Equipment                                   | MASS, kg. (weight, lb.) |            |              | Remarks              |
|---|-------------------------|------------|--------------|----------------------|
|   | Front                   | Rear       | Total        |                      |
| MISCELLANEOUS OPTIONS:                      |                         |            |              |                      |
| Air Conditioning w/<br>Manual Temp. Control | 18.1<br>(40)            | 0<br>(0)   | 18.1<br>(40) |                      |
| Armrest, Folding                            | 1.8<br>(4)              | 1.4<br>(3) | 3.2<br>(7)   |                      |
| Battery, Heavy Duty                         | 2.7<br>(6)              | 0<br>(0)   | 2.7<br>(6)   | All Models Except GT |
| Bumper Guards, Front                        | .5<br>(1)               | 0<br>(0)   | .5<br>(1)    |                      |
| Bumper Guards, Rear                         | 0<br>(0)                | .5<br>(1)  | .5<br>(1)    |                      |
| Bumper Guards, Fleet<br>Front and Rear      | .5<br>(1)               | .5<br>(1)  | 1<br>(2)     |                      |
| Bumper Rub Strips -<br>Front and Rear       | .4<br>(1)               | .4<br>(1)  | .8<br>(2)    |                      |
| Clock, Digital Header<br>Mounted            | .5<br>(1)               | .5<br>(1)  | 1<br>(2)     |                      |
| Console                                     | 1.4<br>(3)              | .9<br>(2)  | 2.3<br>(5)   |                      |
| Defroster, Rear Window                      | .5<br>(1)               | 0<br>(0)   | .5<br>(1)    |                      |
| Instrumentation Group                       | .5<br>(1)               | 0<br>(0)   | .5<br>(1)    |                      |
| Heater, Engine Block<br>Emmersion           | .5<br>(1)               | 0<br>(0)   | .5<br>(1)    |                      |
| License Plate Bracket -<br>Front            | .5<br>(1)               | 0<br>(0)   | .5<br>(1)    |                      |
| Light, Shift Indicator                      | .5<br>(1)               | 0<br>(0)   | .5<br>(1)    |                      |
|   |                         |            |              |                      |
|   |                         |            |              |                      |
|   |                         |            |              |                      |
|   |                         |            |              |                      |

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line ESCORT  
Model Year 1986 Issued 9/85 Revised (•) \_\_\_\_\_

| Equipment                 | Optional Equipment Differential Mass (weight)* |      |       | Remarks    |
|---------------------------|--|------|-------|------------|
|                           | MASS, kg. (weight, lb.)                        |      |       |            |
|                           | Front  | Rear | Total |            |
| MISCELLANEOUS OPTIONS:    |  |      |       |            |
| (cont'd.)                 |  |      |       |            |
|                           |  |      |       |            |
| Luggage Rack,             | 1  | 4.5  | 5.5   | Wagon Only |
| Deluxe                    | (2)  | (10) | (12)  |            |
|                           |  |      |       |            |
| Mirrors, LH & RH          | 1.4  | .4   | 1.8   | Sport Type |
| Remote Control - Electric | (3)  | (1)  | (4)   |            |
|                           |  |      |       |            |
| Moulding, Wide Vinyl      | .9   | .4   | 1.3   |            |
| Body Side - Exterior      | (2)  | (1)  | (3)   |            |
|                           |  |      |       |            |
| RADIO SYSTEMS:            |  |      |       |            |
|                           |  |      |       |            |
| Radio, AM                 | 1.8  | 1.4  | 3.2   |            |
|                           | (4)  | (3)  | (7)   |            |
|                           |  |      |       |            |
| Radio, Delete AM          | -1.8   | -1.4 | -3.2  |            |
|                           | (-4)   | (-3) | (-7)  |            |
|                           |  |      |       |            |
|                           |  |      |       |            |
|                           |  |      |       |            |
| Radio, AM/FM Stereo       | 3.2  | 1.4  | 4.6   |            |
|                           | (7)  | (3)  | (10)  |            |
|                           |  |      |       |            |
| Radio, AM/FM Stereo       | 3.2  | 1.8  | 5     |            |
| w/Cassette                | (7)  | (4)  | (11)  |            |
|                           |  |      |       |            |
|                           |  |      |       |            |
|                           |  |      |       |            |
| Sound System, Premium     | .9   | 0    | .9    |            |
|                           | (2)  | (0)  | (2)   |            |
|                           |  |      |       |            |
| Paint, Tu-Tone            | .5   | 0    | .5    |            |
|                           | (1)  | (0)  | (1)   |            |
|                           |  |      |       |            |
| Power Steering            | 5.9  | 0    | 5.9   |            |
|                           | (13)   | (0)  | (13)  |            |
|                           |  |      |       |            |
|                           |  |      |       |            |
| SEATS: Front              |  |      |       |            |
|                           |  |      |       |            |
| Sport Seats               | .9   | .4   | 1.3   |            |
|                           | (2)  | (1)  | (3)   |            |
|                           |  |      |       |            |
|                           |  |      |       |            |

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

**METRIC (U.S. Customary)**Model Year 1986

Issued 9/85

Revised (●)

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



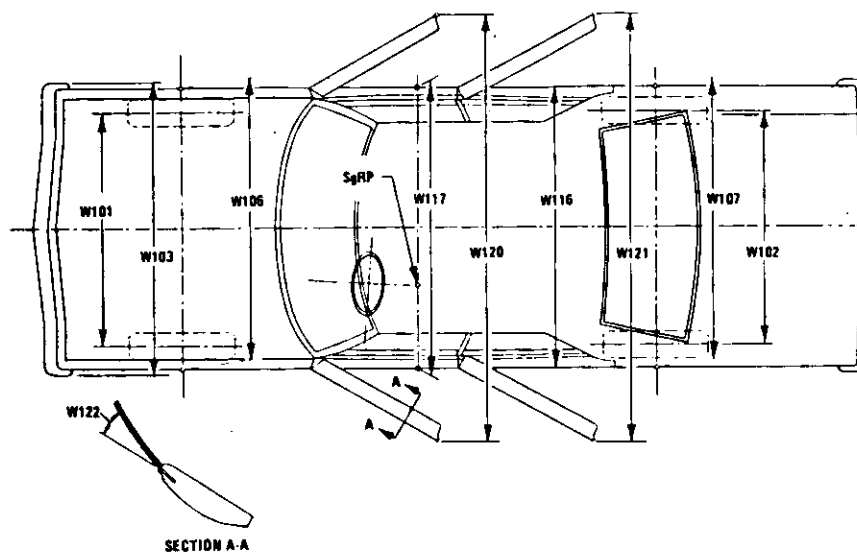
# MVMA Specifications Form

## Passenger Car

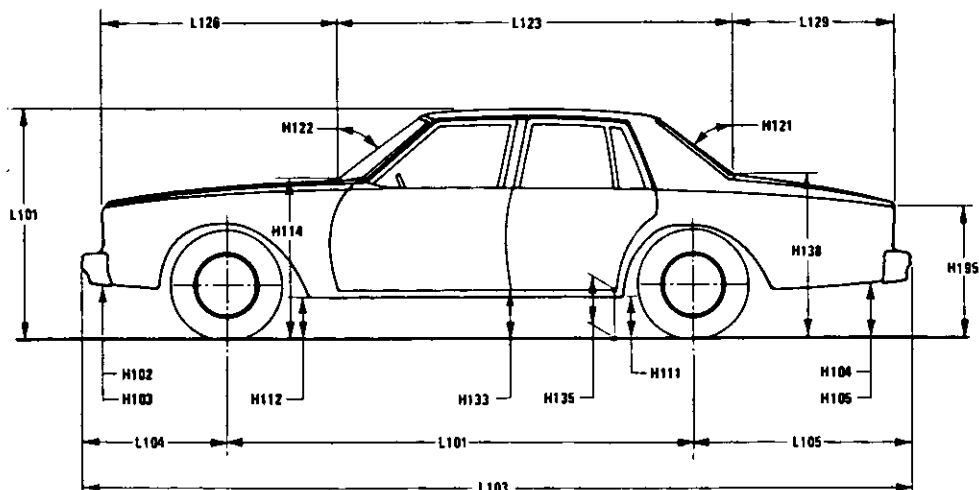
METRIC (U.S. Customary)

### Exterior Car And Body Dimensions – Key Sheet

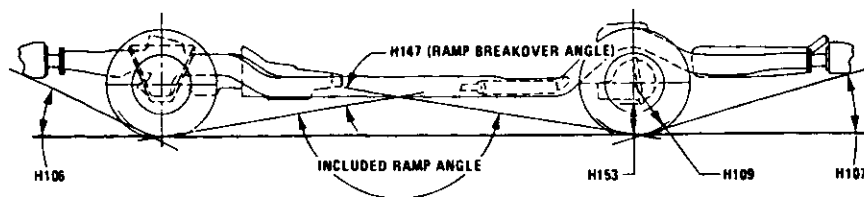
#### Exterior Width



#### Exterior Length & Height

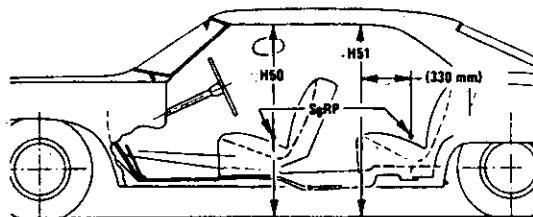
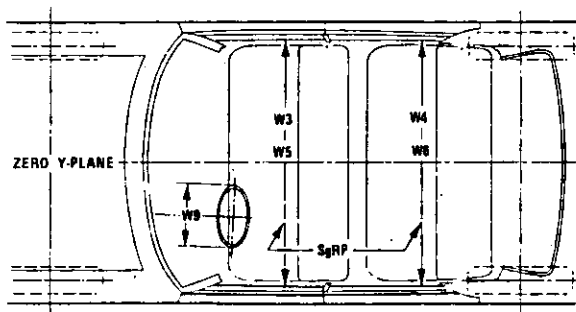
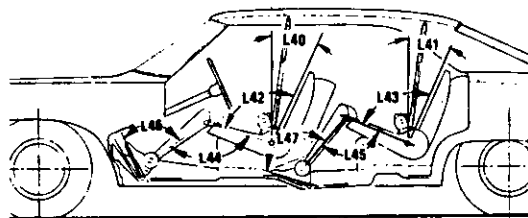
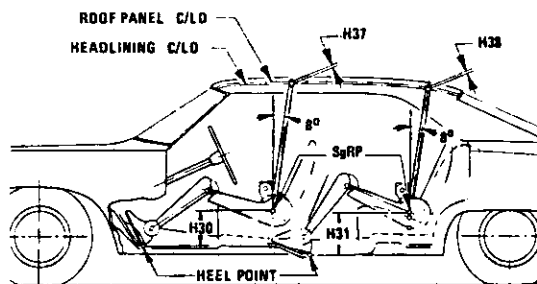
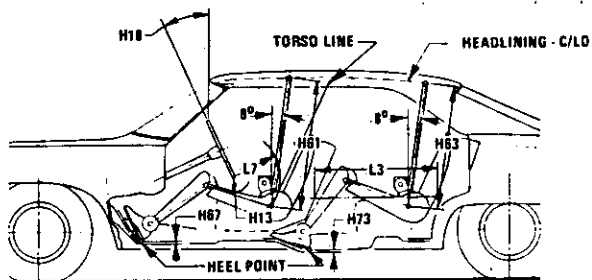
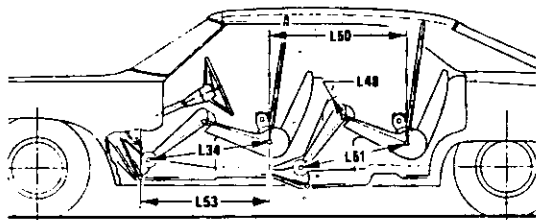


#### Exterior Ground Clearance



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

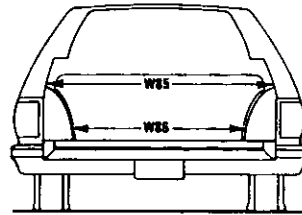
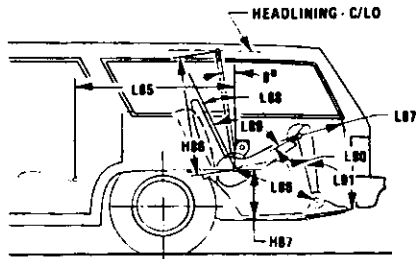
### Interior Car And Body Dimensions – Key Sheet



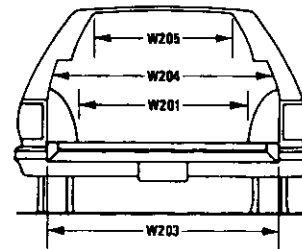
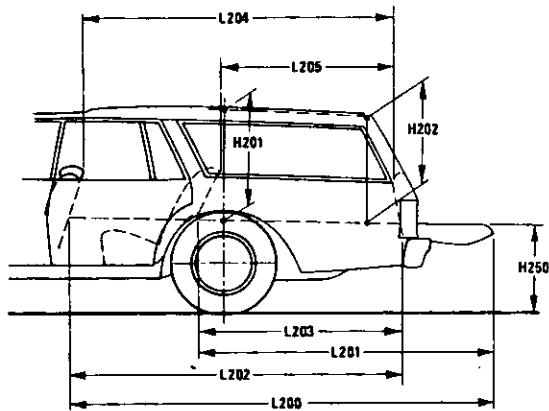
**MVMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

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

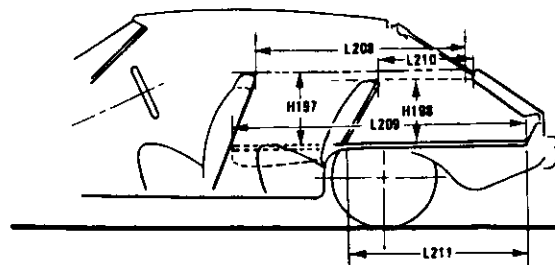
**Third Seat**



**Cargo Space**



**Station Wagon**



**Hatchback**

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

#### Seating Reference Point

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

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

#### Width Dimensions

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

#### Length Dimensions

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

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

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

#### Height Dimensions

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

#### Ground Clearance Dimensions

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

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

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

#### Glass Areas

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

#### Fiducial Mark Dimensions

##### Fiducial Mark – Number 1

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

##### Fiducial Mark – Number 2

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

#### Front Compartment Dimensions

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

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

#### Rear Compartment Dimensions

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

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

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

#### Luggage Compartment Dimensions

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

#### Interior Volumes (EPA Classification)

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

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

#### Station Wagon – Third Seat Dimensions

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

#### Station Wagon – Cargo Space Dimensions

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

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

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

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

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

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

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

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

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

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

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

## Hatchback - Cargo Space Dimensions

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

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

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

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

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

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

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

#### Index

| Subject                                   | Page No.           |
|---|--------------------|
| Aerodynamics .....                        | 22                 |
| Alternator .....                          | 16                 |
| Automatic Transmission/Transaxle .....    | 8, 9               |
| Axis, Steering .....                      | 14                 |
| Axle, Drive, Front, Rear .....            | 2, 9, 10           |
| Axle Shafts .....                         | 10                 |
| Battery .....                             | 16                 |
| Body and Miscellaneous Information .....  | 17                 |
| Brakes-Parking, Service .....             | 12, 13             |
| Camber .....                              | 15                 |
| Camshaft .....                            | 3                  |
| Capacities .....                          |                    |
| Cooling System .....                      | 5                  |
| Fuel Tank .....                           | 6                  |
| Lubricants .....                          |                    |
| Engine Crankcase .....                    | 4                  |
| Transmission/Transaxle .....              | 8, 9               |
| Rear Axle .....                           | 10                 |
| Car Models .....                          | 1                  |
| Car and Body Dimensions .....             |                    |
| Width .....                               | 20                 |
| Length .....                              | 20                 |
| Height .....                              | 20                 |
| Ground Clearance .....                    | 20                 |
| Front Compartment .....                   | 21                 |
| Rear Compartment .....                    | 21                 |
| Luggage Compartment .....                 | 21                 |
| Station Wagon - Third Seat .....          | 22                 |
| Station Wagon - Cargo Space .....         | 22                 |
| Hatchback - Cargo Space .....             | 22                 |
| Carburetor .....                          | 2, 6               |
| Caster .....                              | 15                 |
| Choke, Automatic .....                    | 6                  |
| Clutch - Pedal Operated .....             | 8                  |
| Coil, Ignition .....                      | 16                 |
| Connecting Rods .....                     | 4                  |
| Convenience Equipment .....               | 19                 |
| Cooling System .....                      | 5                  |
| Crankshaft .....                          | 4                  |
| Cylinders and Cylinder Head .....         | 3                  |
| Diesel Information .....                  | 4                  |
| Dimension Definitions .....               |                    |
| Key Sheet - Exterior .....                | 27, 30, 31         |
| Key Sheet - Interior .....                | 28, 29, 31, 32, 33 |
| Electrical System .....                   | 15, 16             |
| Emission Controls .....                   | 7                  |
| Engine-General .....                      |                    |
| Bore, Stroke, Type .....                  | 3                  |
| Compression Ratio .....                   | 2                  |
| Displacement .....                        | 2, 3               |
| Firing Order, Cylinder Numbering .....    | 3                  |
| General Information, Power & Torque ..... | 2                  |
| Intake System .....                       | 4                  |
| Power Teams .....                         | 2                  |
| Exhaust System .....                      | 7                  |
| Equipment Availability, Convenience ..... | 19                 |
| Fan, Cooling .....                        | 5                  |
| Fiducial Marks .....                      | 23                 |
| Filters - Engine Oil, Fuel System .....   | 4                  |
| Frame .....                               | 17                 |
| Front Suspension .....                    | 11                 |
| Front Wheel Drive Unit .....              | 10                 |
| Fuel System .....                         | 6                  |
| Fuel Injection .....                      | 6                  |
| Fuel Tank .....                           | 6                  |
| Generator and Regulator .....             | 16                 |
| Glass .....                               | 18                 |
| Headroom - Body .....                     | 21, 22             |
| Heights - Car and Body .....              | 20                 |
| Horns .....                               | 15                 |
| Horsepower - Brake .....                  | 2                  |
| Ignition System .....                     | 16                 |
| Inflation - Tires .....                   | 13                 |

| Subject   | Page No. |
|---|----------|
| Interior Volumes .....                            | 21       |
| Instruments .....                                 | 15       |
| Lamps and Headlamp Shape .....                    | 24       |
| Legroom .....                                     | 21, 22   |
| Lengths - Car and Body .....                      | 20       |
| Leveling, Suspension .....                        | 11       |
| Lifters, Valve .....                              | 4        |
| Linings - Clutch, Brake .....                     | 8, 12    |
| Lubrication - Engine Transmission/Transaxle ..... | 4, 8, 9  |
| Luggage Compartment .....                         | 21       |
| Mass .....  | 25, 26   |
| Models .....                                      | 1        |
| Motor Starting .....                              | 16       |
| Muffler .....                                     | 7        |
| Passenger Capacity .....                          | 1        |
| Passenger Mass Distribution .....                 | 25       |
| Pistons .....                                     | 3        |
| Power Brakes .....                                | 12       |
| Power, Engine .....                               | 2        |
| Power Steering .....                              | 14       |
| Power Teams .....                                 | 2        |
| Propeller Shaft, Universal Joints .....           | 10       |
| Pumps - Fuel .....                                | 6        |
| Water .....                                       | 5        |
| Radiator - Cap, Hoses, Core .....                 | 5        |
| Ratios - Axle, Transaxle .....                    | 2, 9     |
| Compression .....                                 | 2        |
| Steering .....                                    | 14       |
| Transmission/Transaxle .....                      | 2, 8, 9  |
| Rear Axle .....                                   | 2, 9, 10 |
| Regulator - Generator .....                       | 16       |
| Restraint System .....                            | 18       |
| Rims .....  | 13       |
| Rods - Connecting .....                           | 4        |
| Scrub Radius .....                                | 14       |
| Seats .....                                       | 17       |
| Shock Absorbers, Front & Rear .....               | 11       |
| Spark Plugs .....                                 | 16       |
| Speedometer .....                                 | 15       |
| Springs - Front & Rear Suspension .....           | 11       |
| Stabilizer (Sway Bar) - Front & Rear .....        | 11       |
| Starting System .....                             | 16       |
| Steering .....                                    | 14       |
| Suppression - Ignition, Radio .....               | 16       |
| Suspension - Front & Rear .....                   | 11       |
| Tail Pipe .....                                   | 7        |
| Theft Protection .....                            | 19       |
| Thermostat, Cooling .....                         | 5        |
| Tires .....                                       | 13       |
| Toe-In .....                                      | 15       |
| Torque Converter .....                            | 9        |
| Torque - Engine .....                             | 2, 8, 9  |
| Transaxle .....                                   | 9        |
| Transmission - Types .....                        | 2, 8, 9  |
| Transmission - Automatic .....                    | 2, 8, 9  |
| Transmission - Manual .....                       | 2, 8, 9  |
| Transmission - Ratios .....                       | 2, 9     |
| Tread .....                                       | 20       |
| Trunk Cargo Load .....                            | 1        |
| Trunk Luggage Capacity .....                      | 21       |
| Turning Diameter .....                            | 14       |
| Unitized Construction .....                       | 17       |
| Universal Joints, Propeller Shaft .....           | 10       |
| Valve System .....                                | 4        |
| Voltage Regulator .....                           | 16       |
| Water Pump .....                                  | 5        |
| Weights .....                                     | 25, 26   |
| Wheel Alignment .....                             | 15       |
| Wheelbase .....                                   | 20       |
| Wheels & Tires .....                              | 13       |
| Wheel Spindle .....                               | 14       |
| Widths - Car and Body .....                       | 20       |
| Windshield .....                                  | 18       |
| Windshield Wiper and Washer .....                 | 15       |



# MOTOR VEHICLE

## Specifications

METRIC (U.S. Customary)

Passenger Car

# 1985

|  |                           |         |
|--|---------------------------|---------|
| Manufacturer<br>FORD MOTOR COMPANY                           | Car Line<br><br>EXP       |         |
| Mailing Address<br>P.O. BOX 2053<br>DEARBORN, MICHIGAN 48121 | Issued<br>SEPTEMBER, 1984 | Revised |

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

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. This specification form was developed by the automobile manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

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

# **MVMA Specifications Form**

## **Passenger Car**

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

### **Table of Contents**

---

|       |   |
|-------|---|
| 1     | Car Models                                    |
| 2     | Power Teams                                   |
| 3-6   | Engine  |
| 4     | Lubrication System                            |
| 4     | Diesel Information                            |
| 5     | Cooling System                                |
| 6     | Fuel System                                   |
| 7     | Vehicle Emission Control                      |
| 7     | Exhaust System                                |
| 8-10  | Transmission, Axles and Shafts                |
| 11    | Suspension-Front and Rear                     |
| 12-13 | Brakes  |
| 13    | Tires and Wheels                              |
| 14-15 | Steering                                      |
| 15-16 | Electrical                                    |
| 17    | Body – Miscellaneous Information              |
| 17    | Glass   |
| 17    | Frame   |
| 18    | Restraint System                              |
| 19    | Convenience Equipment                         |
| 20-22 | Car and Body Dimensions                       |
| 23    | Vehicle Fiducial Marks                        |
| 24    | Lamps and Headlamps                           |
| 25    | Vehicle Mass (Weight)                         |
| 26    | Optional Equipment Differential Mass (Weight) |
| 27-31 | Car and Body Dimension Key Sheets             |
| 32    | Index   |

---

#### **NOTE:**

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

## Car Models

| Model<br>Description<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) |
|---------------------------------|----------------------|--|--|--|
| % 3-Door                        |                      | 67D  | 2/0  | 22.68 (50)                                     |
| % 3-Door (Turbo)                |                      | 67D  | 2/0  | 22.68 (50)                                     |
| % Front Wheel Drive (FWD)       |                      |  |  |  |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

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

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

| SERIES<br>AVAILABILITY                          | ENGINE                    |                                 |                 |                                  |                              | E<br>x<br>h<br>a<br>u<br>s<br>t<br>S/D | TRANSMISSION<br>TRANSAXLE | (Transfer Ratio)<br>AXLE RATIO<br>(std. first) |
|---|---------------------------|---------------------------------|-----------------|----------------------------------|------------------------------|--|---------------------------|--|
|   | Displ.<br>Liters<br>(in³) | Carb.<br>(Barrels,<br>FI, etc.) | Compr.<br>Ratio | SAE Net at RPM                   |                              |  |                           |  |
|   |                           |                                 |                 | kW<br>(bhp)                      | Torque<br>N - m<br>(lb. ft.) |  |                           |  |
|   |                           |                                 |                 | <u>50 STATES/ALTITUDE/CANADA</u> |                              |  |                           |  |
| A11   | 1.6 HO<br>(97.6)          | 2V                              | 9.0             | 60<br>(80)<br>5400               | 119<br>(88)<br>3000          | S                                      | MTX III<br>ATX            | 3.73/2.73*<br>3.31                             |
| A11   | 1.6 TC<br>(97.6)          | EFI                             | 8.0             | 90<br>(120)<br>5200              | 163<br>(120)<br>3400         | S                                      | MTX III                   | 3.73/2.73*                                     |
| MTX III Manual 5-Speed<br>ATX Automatic 3-Speed |                           |                                 |                 |                                  |                              |  |                           |  |
| * Refer to Footnote (a), Page 8                 |                           |                                 |                 |                                  |                              |  |                           |  |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.6L HO/2V  
(97.6 CID)

1.6L TC/EFI

## ENGINE - GENERAL

|   |  |                  |
|---|--|------------------|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.) | Inline, Front, Transverse, (SOHC) Single Overhead Camshaft, (CVH) Compound Valve Hemispherical Combustion Chambers |                  |
| No. of cylinders  | Four   |                  |
| Bore  | 80.0 (3.15)  |                  |
| Stroke  | 79.5 (3.13)  |                  |
| Bore spacing (c / l to c / l)   | 91.8 (3.61)  |                  |
| Cylinder block material   | Cast Iron  |                  |
| Cylinder block deck height  | 208.6 (8.21)   |                  |
| Deck clearance (minimum) (above or below block)   | 3.5 (0.14) Above   | 5.5 (0.22) Above |
| Cylinder head material  | Aluminum   |                  |
| Cylinder head volume (cm <sup>3</sup> )   | 58.5   |                  |
| Head gasket thickness (compressed)  | 1.3 (0.05)   |                  |
| Minimum combustion chamber total volume (cm <sup>3</sup> )  | 52.1 (Nominal)   |                  |
| Cyl. no. system (front to rear)*  | L. Bank  | 1, 2, 3, 4       |
|   | R. Bank  | N.A.             |
| Firing order  | 1, 3, 4, 2   |                  |
| Recommended fuel (leaded, unleaded, diesel)   | Unleaded   |                  |
| Fuel antiknock index $\frac{(R + M)}{2}$  | 87 Minimum Octane  |                  |
| Total dressed engine mass (wt) dry**  | 129.4 (285.6)  | 143.2 (315.6)    |

## Engine - Pistons

|  |                |                 |
|--|----------------|-----------------|
| Material & mass, g (weight, oz.) - piston only | Aluminum Alloy | Forged Aluminum |
|--|----------------|-----------------|

## Engine - Camshaft

|                                   |                      |                        |
|-----------------------------------|----------------------|------------------------|
| Location                          | In Cylinder Head     |                        |
| Material & mass kg (weight, lbs.) | Hardenable Cast Iron |                        |
| Drive type                        | Chain / belt         | Belt                   |
|                                   | Width / pitch        | 25.4 (1.0) / 9.5 (0.4) |

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

\*\* Dressed engine mass (weight) includes the following: All Engine Mounted Components Including Front End Dress. Excludes Starter and Alternator.

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.6L HO/2V  
(97.6 CID)

1.6L TC/EFI

## Engine – Valve System

|                                    |                            |
|------------------------------------|----------------------------|
| Hydraulic lifters (std., opt., NA) | Standard                   |
| Valves                             | Number intake / exhaust    |
|                                    | 4/4                        |
|                                    | Head O.D. intake / exhaust |
|                                    | 42/37                      |

## Engine – Connecting Rods

|                                       |              |
|---------------------------------------|--------------|
| Material & mass (kg., (weight, lbs.)) | Forged Steel |
|---------------------------------------|--------------|

## Engine – Crankshaft

|                                       |                   |
|---------------------------------------|-------------------|
| Material & mass (kg., (weight, lbs.)) | Nodular Cast Iron |
| End thrust taken by bearing (no.)     | #3                |
| Number of main bearings               | 5                 |

## Engine – Lubrication System

|  |                                 |
|--|---------------------------------|
| Normal oil pressure (kPa (psi) at engine rpm)    | 240-450 (35-65) @ 2000 Warm Oil |
| Type oil intake (floating, stationary)           | Stationary                      |
| Oil filter system (full flow, part, other)       | Full Flow                       |
| Capacity of oil/case, less filter-refill-L (qt.) | 3.3 (3.50)                      |

## Engine – Diesel Information

(NOT OFFERED)

|   |                              |
|---|------------------------------|
| Diesel engine manufacturer                                  |                              |
| Glow plug, current drain at 0°F                             |                              |
| Injector nozzle   | Type                         |
|   | Opening pressure (kPa (psi)) |
| Pre-chamber design  |                              |
| Fuel injection 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 |  |
| Super charger - manufacturer |  |
| Charge cooler                |  |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.6L HO/2V  
(97.6 CID)

1.6L TC/EFI

## Engine - Cooling System

|  |   |  |
|--|---|--|
| Coolant recovery system (std., opt., n.a.)     |   | Standard   |
| Coolant fill location (rad., bottle)           |   | Radiator with Additional 1/2L Fill In Bottle   |
| Radiator cap relief valve pressure [kPa (psi)] |   | 110.32 (16.0)  |
| Circulation thermostat                         | Type (choke, bypass)                            | Choke  |
|  | Starts to open at °C (°F)                       | 88.96 (192.0)  |
| Water pump                                     | Type (centrifugal, other)                       | Centrifugal  |
|  | GPM 1000 pump rpm                               | 19L (5 GPM)  |
|  | Number of pumps                                 | One  |
|  | Drive (V-belt, other)                           | Timing Belt  |
|  | Bearing type                                    | Ball-Roller  |
| By-pass recirculation [type (inter., ext.)]    |   | External   |
| Cooling system capacity                        | With heater-L(qt.)                              | 6.3 (6.7)  |
|  | With air cond.-L(qt.)                           | 7.7 (8.1)  |
|  | Opt. equipment [specify-L(qt.)]                 | --   |
| Water jackets full length of cyl. (yes, no)    |   | Yes  |
| Water all around cylinder (yes, no)            |   | Yes  |
| Radiator core                                  | Describe (type, material, no. of rows)          | Crossflow-Copper/Brass (with A/C), Aluminum (with Heater)<br>Tube and Fin Two Row with Plastic End Tanks |
|  | Std., A/C, HD                                   | Std. A/C   |
|  | Width   | 407 (16.02) 591 (23.27)  |
|  | Height  | 321 (12.64) 321 (12.64)  |
|  | Thickness                                       | 34 ( 1.34) 29.0 (1.14)   |
|  | Fins per inch                                   | 13.5 (M/T), 15.5 (A/T) 10.5 (M/T), 13 (A/T)  |
| Fan  | Std., elec., opt.                               | Electric   |
|  | Number of blades & type (flex, solid, material) | Four, Solid, Plastic   |
|  | Diameter & projected width                      | 304.8 (12.0)   |
|  | Ratio (fan to crankshaft rev.)                  | N.A.   |
|  | Fan cutout type                                 | N.A.   |
|  | Drive [type (direct, remote)]                   | N.A.   |
|  | RPM at idle (elec.)                             | 1850   |
|  | Motor rating (wattage) (elec.)                  | 80   |
|  | Motor switch (type & location) (elec.)          | Thermostatic - Water Outlet Connection   |
|  | Switch point (temp., pressure) (elec.)          | Temp. 105 (221°)   |
| Fan shroud (material)                          | Metal   |  |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.6L HO/2V  
(97.6 CID)

1.6L TC/EFI

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

|   |   |                                  |                            |  |
|---|---|----------------------------------|----------------------------|--|
| Induction type: carburetor, fuel injection system, etc.               |   | Carburetor                       | Electronic Fuel Injection  |  |
| Carburetor  | Mfr.  | Holly                            |                            |  |
|   | Choke (type)  | Automatic-Electric               |                            |  |
|   | Idle spd. -rpm (spec. neutral or drive and propane if used) | Manual                           | 800 with Electric Fan "On" |  |
|   |   | Automatic                        | Drive: 750                 |  |
| Idle A/F mix.   |   | 9.44 ATX (304C), 8.86 ATX (303D) |                            |  |
| Fuel injection  | Point of injection (no.)                                    | N.A.                             | Port                       |  |
|   | Constant, pulse, flow                                       | N.A.                             | Pulse                      |  |
|   | Control (electronic, mech.)                                 | N.A.                             | Electronic                 |  |
|   | System pressure [kPa (psi)]                                 | N.A.                             | 31.02 (4.5)                |  |
| Intake manifold heat control (exhaust or water thermostatic or fixed) |   | N.A.                             |                            |  |
| Air cleaner type  | Standard  | Pleated Paper                    |                            |  |
|   | Optional  | N.A.                             |                            |  |
| Fuel pump   | Type (elec. or mech.)                                       | Mechanical                       | Electric                   |  |
|   | Location (eng., tank)                                       | Cylinder Head                    | Floor Pan Body Mount       |  |
|   | Pressure range [kPa (psi)]                                  | 27.6-41.4 (4.0-6.0)              | 269 (39) Nominal           |  |

## Fuel Tank

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Capacity [refill L (gallons)] |                          | 49.2 (13 Gal.) Standard                             |
| Location (describe)           |                          | In Front of Rear Suspension                         |
| Attachment                    |                          | Two Straps with Pin and Loop at Rear, Bolt at Front |
| Material                      |                          | Steel (Terne Plate)                                 |
| Filler pipe                   | Location & material      | Right Rear Quarter Panel; Steel                     |
|                               | Connection to tank       | Rubber Hoses  |
| Fuel line (material)          |                          | Steel   |
| Fuel hose (material)          |                          | Reinforced Rubber (Non-EFI) (a)                     |
| 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.  |

(a) Rubber Covered Nylon with Push Connect Fittings (W/EFI)



# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.6L HO/2V  
(97.6 CID)

1.6L TC/EFI

## Vehicle Emission Control

|   |  |  |                                 |
|---|--|--|---------------------------------|
| Exhaust<br>Emission<br>Control          | Type (air injection, engine modifications, other)        |  | Air Injection                   |
|   | Air<br>Injection   | Pump or pulse  | Van Type, Constant Disp.        |
|   |  | Driven by  | Belt                            |
|   |  | Air distribution (head, manifold, etc.)                          | Manifold and Underbody Catalyst |
|   |  | Point of entry   | Manifold Gallery and Catalyst   |
|   | Exhaust<br>Gas<br>Recircula-<br>tion                     | Type (controlled flow, open orifice, other)                      | Controller Flow                 |
|   |  | Exhaust source   | Exhaust Manifold #4 Runner      |
|   |  | Point of exhaust injection (spacer, carburetor, manifold, other) | Intake Manifold Plenum          |
|   | Catalytic<br>Converter                                   | Type   | TWC/COC Converter M.T.A. (a)    |
|   |  | Number of  | One                             |
| Location(s)                             |  | Underbody  |                                 |
| Volume [L (in³)]                        |  | 2.4 (153) 1.5 (93)   |                                 |
| Crankcase<br>Emission<br>Control        | Type (ventilates to atmosphere, induction system, other) |  |                                 |
|   | Energy source (manifold vacuum, carburetor, other)       |  |                                 |
|   | Discharges (to intake manifold, other)                   |  |                                 |
|   | Air inlet (breather cap, other)                          |  |                                 |
| Evapora-<br>tive<br>Emission<br>Control | Vapor vented to (crankcase, canister, other)             | Fuel tank  | Vented to Carbon Canister       |
|   | Carburetor   |  |                                 |
| Electronic<br>system                    | Vapor storage provision                                  |  | Carbon Canister                 |
|   | Closed loop (yes/no)                                     |  |                                 |
| Open loop (yes/no)                      |  |  |                                 |

## Engine - Exhaust System

|  |                             |                             |
|--|-----------------------------|-----------------------------|
| Type (single, single with cross-over, dual, other)                   |                             | Single                      |
| Muffler no. & type (reverse flow, straight thru, separate resonator) |                             | Reverse Flow                |
| Resonator no. & type   |                             | N.A.                        |
| Exhaust<br>pipe  | Branch o.d., wall thickness | N.A.                        |
|  | Main o.d., wall thickness   | N.A.                        |
|  | Material                    | N.A.                        |
| Inter-<br>mediate<br>pipe  | o.d. & wall thickness       | 51 x 1.37 (2.0 x .054)      |
|  | Material                    | Low Carbon Aluminum Coated  |
| Tail<br>pipe   | o.d. & wall thickness       | 57.0 x 1.37 (2.25 x .059)   |
|  | Material                    | Aluminized Low Carbon Steel |

(a) TWC Converter Pulse Air

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.6L HO/2V  
(97.6 CID)

1.6L TC/EFI

## Transmissions/Transaxle

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

## Manual Transmission/Transaxle

|                                     |                   |
|-------------------------------------|-------------------|
| Number of forward speeds            | Five (a)          |
| In first (Final Dr.)                | 3.60 (13.42)      |
| In second " "                       | 2.12 (7.90)       |
| In third " "                        | 1.39 (5.20)       |
| In fourth " "                       | 1.02 (3.81)       |
| In fifth " "                        | 1.02 (2.79)       |
| in overdrive                        | - -               |
| In reverse " "                      | 3.62 (13.48)      |
| Synchronous meshing (specify gears) | All Forward Gears |
| Shift lever location                | Floor             |
| Capacity [L (pt.)]                  | 2.9 (6.1)         |
| Type recommended                    | (b)               |
| SAE viscosity number                | Summer N.A.       |
|                                     | Winter N.A.       |
|                                     | Extreme cold N.A. |

## Clutch (Manual Transmission)

|   |  |
|---|--|
| Make, type, engagement (describe)                     | Single Disc, Dry Plate   |
| Type pressure plate springs                           | Belleville Spring  |
| Total spring load [N (lb.)]                           | 3850 (865) 4525 (1017)   |
| No. of clutch driven discs                            | One  |
| Material  | Woven Non-Asbestos   |
| Manufacturer  | Valeo  |
| Part number   | E1ER-7550 - AB & BB E4EX-7550-AA   |
| Rivets/plate  | 12   |
| Rivet size  | 3.9 x 6.0 (5/32 x 15/64)   |
| Outside & inside dia.                                 | 200 (7.875) & 134 (5.275)  |
| Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )] | 346 (53.7)   |
| Thickness   | 3.43 (0.135)   |
| Engagement cushion method                             | Torband Disc   |
| Release bearing                                       | Type & method of lubrication<br>Self Centering, Angular Contact, Constant Running, Prepacked |
| Torsional damping                                     | Method: springs, friction material<br>Multi-Stage, Springs & Friction Material               |

- (a) The 5-speed is a unique arrangement utilizing dual final drive, one for 1st through 4th and reverse (3.73:1) and one for 5th (2.73:1).  
(b) Automatic Transmission Fluid ESW-M2C33F (95.2% Volume) Plus Friction Modifier EST-M2C118-A (4.8% by Volume).

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.6L HO/2V  
(97.6 CID)

1.6L TC/EFI

## Automatic Transmission/Transaxle

(NOT AVAILABLE)

|  |                               |   |
|--|-------------------------------|---|
| Trade name   |                               | Transaxle (ATX)   |
| Type and special features (describe)                         |                               | ATX-Wide Ratio, 3-Speed with Open Torque Converter in Low and Split-Torque in Intermediate and High |
| Selector   | Location                      | Floor Mounted T-Bar Design  |
|  | Ltr./No. designation          | P R N D 2 1   |
| Gear ratios  | R                             | 1.97:1  |
|  | D                             | 1.00:1  |
|  | L <sub>3</sub>                | - -   |
|  | L <sub>2</sub>                | 1.61:1  |
|  | L <sub>1</sub>                | 2.79:1  |
| Max. upshift speed - drive range [km/h (mph)]                |                               | 124 (77)  |
| Max. kickdown speed - drive range [km/h (mph)]               |                               | 114 (71)  |
| Min. overdrive speed [km/h (mph)]                            |                               | - -   |
| Torque converter   | Number of elements            | Three   |
|  | Max. ratio at stall           | 2.37:1  |
|  | Type of cooling (air, liquid) | Liquid  |
|  | Nominal diameter              | 235 (9,25)  |
| Lubricant  | Capacity [refill L (pt.)]     | 7.4 (15.7), Including Oil Cooler Lines  |
|  | Type Recommended              | M2C138-CJ/Dexron II for Service   |
| Oil cooler (std., opt., NA, internal, external, air, liquid) |                               |   |

## Axle or Front Wheel Drive Unit

|  |  |  |                            |
|--|--|--|----------------------------|
| Type (front, rear)                                     |  |  | Front Wheel Drive          |
| Description  |  |  | ATX-Auto.; MTX-III-5 Speed |
| Limited slip differential (type)                       |  |  | N.A.                       |
| Drive pinion offset                                    |  |  | N.A.                       |
| Drive pinion (type)                                    |  |  | N.A.                       |
| No. of differential pinions                            |  |  | Two                        |
| Pinion / differential adjustment (shim, other)         |  |  | N.A.                       |
| Pinion / differential bearing adjustment (shim, other) |  |  | Select Fit Shim            |
| Driving wheel bearing (type)                           |  |  | Tapered Roller Bearings    |

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

|  |                     |        |               |
|--|---------------------|--------|---------------|
| Axle ratio (or overall top gear ratio) |                     | --     |               |
| No. of teeth                           | Pinion              | --     |               |
|  | Ring gear or gear   | --     |               |
| Ring gear o.d.                         |                     | --     |               |
| Transaxle                              | Transfer gear ratio | 3.31:1 | 3.73/2.73 (a) |
|  | Final drive ratio   | 3.31:1 | 3.81/2.79     |

(a) The 5-speed is a unique arrangement utilizing dual final drive, one for 1st through 4th and reverse (3.73:1) and one for 5th (2.73:1).

(b) Automatic Transmission Fluid ESW-M2C33F (95.2% Volume) Plus Friction Modifier EST-M2C118-A (4.8% by Volume).

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.6L HO/2V  
(97.6 CID)

1.6L TC/EFI

## Axle Shafts – Front Wheel Drive

|   |                                   |  |  |
|---|-----------------------------------|--|--|
| Number used   |                                   | One Each, LH & RH Sides – Unequal Length |  |
| Type (straight, solid bar, tubular, etc.)           |                                   | Left                                     | Solid Bar  |
|   |                                   | Right                                    | Solid Bar      Tubular                                       |
| Outer diam. x length* x wall thickness              | Manual transmission<br>5-Speed    | Left                                     | 26.0 x 322.0 (1.02 x 12.68)      27.2 x 318.5 (1.07 x 12.54) |
|   |                                   | Right                                    | 26.0 x 648.0 (1.02 x 25.51)      (a)                         |
|   | Automatic transmission<br>3-Speed | Left                                     | 26.0 x 305.0 (1.02 x 12.01)      N.A.                        |
|   |                                   | Right                                    | 26.0 x 648.0 (1.02 x 25.5)      N.A.                         |
|   | Optional transmission             | Left                                     | N.A.   |
|   |                                   | Right                                    | N.A.   |
| Slip yoke   | Type                              | N.A.                                     |  |
|   | Number of teeth                   | N.A.                                     |  |
|   | Spline o.d.                       | N.A.                                     |  |
| Universal joints                                    | Make and mfg. no.                 | Inner                                    | GKN & NTN  |
|   |                                   | Outer                                    | GKN & NTN  |
|   | Number used                       |  | 2 Inner & 2 Outer (4 Total)                                  |
|   | Type, size, plunge                | Inner                                    | 82 ST D.O.J., 44 (1.73)      C2650 D.O.J. 41.5 (1.63)        |
|   |                                   | Outer                                    | 87 AC Fixed      C2650 Fixed                                 |
|   | Attach (u-bolt, clamp, etc.)      |  | Non-Bolted   |
|   | Bearing                           | Type (plain, anti-friction)              | N.A.   |
|   |                                   | Lubrication (fitting, prepack)           | N.A.   |
| Drive taken through (torque tube, arms or springs)  |                                   | N.A.                                     |  |
| Torque taken through (torque tube, arms or springs) |                                   | N.A.                                     |  |

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

(a) 44.9 x 645.2 x 3.9 (1.77 x 25.4 x 0.15)

# MVMA Specifications Form Passenger Car

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

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

Body Type And/Or  
Engine Displacement

ALL MODELS

## Suspension – General

|                                    |                         |                                    |
|------------------------------------|-------------------------|------------------------------------|
| Car leveling                       | Std./opt./n.a.          | N.A.                               |
|                                    | Type (air, hyd., etc.)  | - -                                |
|                                    | Manual/auto. controlled | - -                                |
| Provision for brake dip control    |                         | N.A.                               |
| Provision for accel. squat control |                         | N.A.                               |
| Provisions for car jacking         |                         | Notched Rocker Panel Positions     |
| Shock absorber (front & rear)      | Type                    | Strut Type - Front and Rear        |
|                                    | Make                    | Motorcraft (1.6L EFI Turbo - Koni) |
|                                    | Piston diameter         | 27 (1.06) Front and Rear           |
|                                    | Rod diameter            | 20 (.90) Front, 18 (.70) Rear      |

## Suspension – Front

|                                |   |  |
|--------------------------------|---|--|
| Type and description           |   | McPherson Strut - Indep., Front Drive with Strut Mounted Coil Spring; Stabilizer Bar - Track Control Arm             |
| Drive and torque taken through |   | Control Arm Bushings and Strut Mounts  |
| Travel                         | Full jounce   | Base 77.6 (3.06); RPO 80.9 (3.19); 1.6 EFI TC 61.1 (2.41)  |
|                                | Full rebound  | Base 86.4 (3.40); RPO 83.1 (3.27); 1.6 EFI TC 102.9 (4.05)   |
| Spring                         | Type (coil, leaf, other) & material                 | Coil, SAE-5160-H   |
|                                | insulators (type & material)                        |  |
|                                | Size (coil design height & i.d., bar length x dia.) | Des. Ht. - 171.7, I.D.-86.0, Lgth - 2680, Dia.-11.11; Base Des. Ht. - 175.0, I.D.-86.0, Lgth - 2392, Dia.-11.62, RPO |
|                                | Spring rate [N/mm (lb./in.)]                        | 21.0 (120) - Base; 28.0 (160) - RPO; 1.6 EFI TC 31.5 (178)   |
|                                | Rate at wheel [N/mm (lb./in.)]                      | 18.1 (103) - Base; 23.5 (134) - RPO; 1.6 EFI TC 25.9 (148)   |
| Stabilizer                     | Type (link, linkless, frameless)                    | Linkless, Dual Function Strut/Stabilizer   |
|                                | Material & bar diameter                             | Modified 1090, 24.0 (0.94) - Base, 26.0 (1.02) - RPO   |

## Suspension – Rear

|                                |   |  |
|--------------------------------|---|--|
| Type and description           |   | Modified McPherson-Strut Type; Independent, Non-Driven w/ Coil Spring on Lower Arm - Tie Bar - Cont.Arm-Forged Spindle |
| Drive and torque taken through |   | - -  |
| Travel                         | Full jounce   | Base - 107.4 (4.23) TRX - 113.3 (4.46)   |
|                                | Full rebound  | Base - 82.6 (3.25) TRX - 76.7 (3.02)   |
| Spring                         | Type (coil, leaf, other) & material                                 | Coil, SAE-5160-H Steel   |
|                                | Size (length x width, coil design height & i.d., bar length & dia.) | ID - 84 Design Hgt. - Base 167.2, TRX - 171.6<br>Wire Dia. - Base - 11.85, TRX 12.55                                   |
|                                | Spring rate [N/mm (lb./in.)]  | Base - 34.1 (195) TRX - 45.5 (260)   |
|                                | Rate at wheel [N/mm (lb./in.)]                                      | Base - 13.9 (79.4) TRX - 18.2 (103.9)  |
|                                | insulators (type & material)  | Upper (Rubber) Insulator - Helical to Match Spring   |
|                                | If leaf   | No. of leaves - -  |
|                                |   | Shackle (comp. or tens.) - -   |
| Stabilizer                     | Type (link, linkless, frameless)                                    | - -  |
|                                | Material & bar diameter   | - -  |
| Track bar (type)               |   | None   |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (•) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

ALL MODELS

## Brakes - Service

|  |   |                                 |  |  |  |
|--|---|---------------------------------|--|--|--|
| Description  |   |                                 | Four Wheel Hyd. Actuated Split Diagonal Braking System |  |  |
| Brake type<br>(std., opt., n.a.)                                     |   | Front (disc or drum)            | Disc   |  |  |
|  |   | Rear (disc or drum)             | Drum   |  |  |
| Self-adjusting (std., opt., n.a.)                                    |   |                                 | Standard   |  |  |
| Special<br>valving   | Type (proportion, delay, metering, other) |                                 | Pressure Differential and Proportioning                |  |  |
| Power brake (std., opt., n.a.)                                       |   |                                 | Standard   |  |  |
| Booster type (remote, integral, vac., hyd., etc.)                    |   |                                 | 200 (7.87) Single Diaphragm - Integral Vacuum          |  |  |
| Vacuum source (inline, pump, etc.)                                   |   |                                 | - -  |  |  |
| 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> )]*                |   |                                 | 163.2 (25.3) Front/271.6 (42.1) Rear                   |  |  |
| Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]**(F/R)       |   |                                 | 175.0 (28.0) Front/287.0 (44.5) Rear                   |  |  |
| Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]*** (F/R)            |   |                                 | 951 (147.4) Front/433.7 (67.2) Rear                    |  |  |
| Rotor  | Outerworking diameter                     |                                 | F/R  | 235 (9.25)   |  |
|  | Inner working diameter                    |                                 | F/R  | 152 (5.98)   |  |
|  | Thickness                                 |                                 | F/R  | 24 (0.94)  |  |
|  | Material & type (vented/solid)            |                                 | F/R  | Cast Iron Vented                                     |  |
| Drum   | Diameter & width                          |                                 | F/R  | 180 (7.10)   |  |
|  | Type and material                         |                                 | F/R  | Cast Iron  |  |
| Wheel cylinder bore  |   |                                 | 54 (2.13) Front/20.6 (.81) Rear                        |  |  |
| Master cylinder  | Bore/stroke                               | F/R                             | 19.7 (0.78) Front/28.5 (1.12) Rear - Stepped Bore      |  |  |
| Pedal arc ratio  |   |                                 | 2.8:1  |  |  |
| Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]               |   |                                 | 1580 psi   |  |  |
| Lining clearance   |   | (F/R)                           | 0.13 (.005) Front/0.38 (.015) Rear                     |  |  |
| Brake<br>lining  | Front<br>wheel                            | Bonded or riveted (rivets/seg.) |  | Riveted 6/Seg.                                       |  |
|  |   | Rivet size                      |  | 4.7 (.185)   |  |
|  |   | Manufacturer                    |  | Thiokol  |  |
|  |   | Lining code                     |  | TP-1353M-FF , TP-1471 (1.6 EFI Turbo)                |  |
|  |   | Material                        |  | Molded Organic , Molded Semi Metallic(1.6 EFI Turbo) |  |
|  |   | ****                            | Primary or out-board                                   | 103 x 39.7 x 11.1 (4.05 x 1.56 x .437)               |  |
|  |   | Size                            | Secondary or in-board                                  | 103 x 39.7 x 11.1 (4.05 x 1.56 x .437)               |  |
|  |   | Shoe thickness (no lining)      |  | 4.8 (.189) Nominal                                   |  |
|  | Rear<br>wheel                             | Bonded or riveted (rivets/seg.) |  | Riveted 10/Seg.                                      |  |
|  |   | Manufacturer                    |  | Bendix   |  |
|  |   | Lining code                     |  | BX MO FF   |  |
|  |   | Material                        |  | Molded Organic                                       |  |
|  |   | ****                            | Primary or out-board                                   | 211 x 34 x 4.5 (8.3 x 1.34 x .18)                    |  |
|  |   | Size                            | Secondary or in-board                                  | 211 x 34 x 4.5 (8.3 x 1.34 x .18)                    |  |
|  |   | Shoe thickness (no lining)      |  | 1.89 (.074) Nominal                                  |  |

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

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

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

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

ALL MODELS

## Tires And Wheels (Standard)

|        |   |                     |  |
|--------|---|---------------------|--|
| Tires  | Size (load range, ply)                                      |                     | P165/80R13 BSW   |
|        | Type (bias, radial, etc.)                                   |                     | Steel Belted Radial  |
|        | Inflation pressure (cold) for recommended max. vehicle load | Front [kPa (psi)]   | 240 (35)   |
|        |   | Rear [kPa (psi)]    | 240 (35)   |
|        | Rev./mile—at 70 km/h (45 mph)                               |                     | 540  |
| Wheels | Type & material   |                     | Disc - Styled Stamped Steel  |
|        | Rim (size & flange type)                                    |                     | 13 x 4.5 JJ  |
|        | Wheel offset  |                     | 41.4 (1.63)  |
|        | Attachment  | Type (bolt or stud) | Stud   |
|        |   | Circle diameter     | 108 (4.25)   |
| Spare  | Number & size   |                     | Four - 12 mm   |
|        | Tire and wheel (same, if other describe)                    |                     | P155/80D13 BSW 35 PSI 240 kPa 330 x 114.3 (13 x 4.5) 41.4 (1.63) Offset Temporal Spare |
|        | Storage position & location (describe)                      |                     | Flat Position, Deep Well in Trunk  |

## Tires And Wheels (Optional)

|  |  |   |
|--|--|---|
| Size (load range, ply)   |  | P165/80R13 RWL (W/Thin White Band)            |
| Type (bias, radial, etc.)  |  | Steel Belted Radial                           |
| Wheel (type & material)  |  | Disc. Styled Stamped Steel                    |
| Rim (size, flange type and offset)   |  | 13 x 5.5 Offset 41.4 (1.63)                   |
| Size (load range, ply)   |  | P165/70R365 BSW                               |
| Type (bias, radial, etc.)  |  | Steel Belted Radial                           |
| Wheel (type & material)  |  | Cast Aluminum                                 |
| Rim (size, flange type and offset)   |  | 365 x 135 (14.3 x 5.3) TRX Offset 41.4 (1.63) |
| Size (load range, ply)   |  | P185/65R365 (1.6 EFI Turbo only)              |
| Type (bias, radial, etc.)  |  | Steel Belted Radial                           |
| Wheel (type & material)  |  | Cast Aluminum                                 |
| Rim (size, flange type and offset)   |  | 365 x 135 (14.3 x 5.3) TRX Offset 41.4 (1.63) |
| 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) |  | No Optional Spare Tire or Wheel               |

## Brakes - Parking

|                                 |  |                                |
|---------------------------------|--|--------------------------------|
| Type of control                 |  | Hand Operated - Manual Release |
| Location of control             |  | Between Front Seats            |
| Operates on                     |  | Rear Service Brakes            |
| If separate from service brakes | Type (internal or external)              | --                             |
|                                 | Drum diameter                            | --                             |
|                                 | Lining size (length x width x thickness) | --                             |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

ALL MODELS

## Steering

|  |   |                                |   |                              |  |
|--|---|--------------------------------|---|------------------------------|--|
| Manual (std., opt., n.a.)                      |   |                                | Standard                                  |                              |  |
| Power (std., opt., n.a.)                       |   |                                | Optional, Standard on 1.6 EFI Turbo       |                              |  |
| Adjustable steering wheel (tilt, swing, other) |   | Type and description           | Tilt 5 Position                           |                              |  |
|  |   | (Std., opt., n.a.)             | Optional                                  |                              |  |
| Wheel diameter                                 |   | Manual                         | 368 (14.5) With 6.4 (0.25) Offset         |                              |  |
|  |   | Power                          | 368 (14.5) With 6.4 (0.25) Offset         |                              |  |
| Turning diameter m (ft.)                       | Outside front                             | Wall to wall (l. & r.)         |   |                              |  |
|  |   | Curb to curb (l. & r.)         | 10.9 (35.7)                               |                              |  |
|  | Inside rear                               | Wall to wall (l. & r.)         |   |                              |  |
|  |   | Curb to curb (l. & r.)         |   |                              |  |
| Scrub Radius                                   |   |                                |   |                              |  |
| Manual   | Gear                                      | Type                           | Rack and Pinion                           |                              |  |
|  |   | Make                           | Cam Gear Ltd.                             |                              |  |
|  |   | Ratios                         | Gear                                      | 10.36° per mm of Rack Travel |  |
|  |   |                                | Overall                                   | 21.2:1 (On Center)           |  |
|  |   | No. wheel turns (stop to stop) |   | 3.5                          |  |
| Power  | Type (coaxial, linkage, etc.)             |                                | Integral Rack and Pinion                  |                              |  |
|  | Make                                      |                                | TRW Gear - Ford Pump, Fluid ESP-M2C138CJ  |                              |  |
|  | Gear                                      | Type                           | Rack and Pinion (Constant Ratio)          |                              |  |
|  |   | Ratios                         | Gear                                      | 8.94°/mm of Rack Travel      |  |
|  |   |                                | Overall                                   | 18.3:1 (On Center)           |  |
|  | Pump (drive)                              |                                | Belt Off Crankshaft Pulley                |                              |  |
| No. wheel turns (stop to stop)                 |   | 3.04                           |   |                              |  |
| Linkage  | Type                                      |                                | Integral with Gear                        |                              |  |
|  | Location (front or rear of wheels, other) |                                | Rear                                      |                              |  |
|  | Drag links (trans. or longit.)            |                                | N.A.                                      |                              |  |
|  | Tie rods (one or two)                     |                                | 2 Integral with Gear                      |                              |  |
| Steering axis                                  | Inclination at camber (deg.)              |                                | Left -- 14.64°; Right -- 15.09°           |                              |  |
|  | Bearings (type)                           | Upper                          | Shock Strut Shaft                         |                              |  |
|  |   | Lower                          | Ball Joint                                |                              |  |
|  |   | Thrust                         | N.A.                                      |                              |  |
| Steering spindle & joint type                  |   |                                | Cast Spindle Support w/Integral Strg. Arm |                              |  |
| Wheel spindle                                  | Diameter                                  | Inner bearing                  | 34.977 - 34.957 (1.38 - 1.376)            |                              |  |
|  |   | Outer bearing                  | 34.977 - 34.957 (1.38 - 1.376)            |                              |  |
|  | Thread (size)                             |                                | CV Joint Outer Race M20 x 1.5             |                              |  |
|  | Bearing (type)                            |                                | Non-Adjustable Tapered Roller             |                              |  |



# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

ALL MODELS

## Wheel Alignment

|                                |                          |                                 |  |
|--------------------------------|--------------------------|---------------------------------|--|
| Front wheel at curb mass (wt.) | Service checking         | Caster (deg.)                   | $+1.40 \pm 0.75^{\circ}$ (a)   |
|                                |                          | Camber (deg.)                   | Left $2.15^{\circ} \pm 0.75^{\circ}$ ; Right $1.70^{\circ} \pm 0.75^{\circ}$ (b)   |
|                                |                          | Toe-in [outside track-mm (in.)] | $-2.5 \pm 3.0$ ( $-.10 \pm .12$ ) (c)  |
|                                | Service reset*           | Caster                          | $+1.40 \pm 0.75^{\circ}$ (a)   |
|                                |                          | Camber                          | Left $+2.15^{\circ} \pm 0.75^{\circ}$ ; Right $+1.70^{\circ} \pm 0.75^{\circ}$ (b) |
|                                |                          | Toe-in                          | $-2.5 \pm 3.0$ ( $-.10 \pm .12$ ) (c)  |
|                                | Periodic M.V. inspection | Caster                          | $+1.40 \pm 2.00^{\circ}$   |
|                                |                          | Camber                          | Left $+2.15^{\circ} \pm 2.00^{\circ}$ ; Right $+1.70^{\circ} \pm 2.00^{\circ}$     |
|                                |                          | Toe-in                          | $-2.5 \pm 6.0$ ( $-.10 \pm .25$ )  |
| Rear wheel at curb mass (wt.)  | Service checking         | Camber (deg.)                   | $-1.25 \pm 0.85$   |
|                                |                          | Toe-in [outside track-mm (in.)] | $+5.0 \pm 5.0$ ( $.18 \pm .18$ )   |
|                                | Service reset*           | Camber                          | $-1.25^{\circ} \pm 0.85^{\circ}$   |
|                                |                          | Toe-in                          | $+5.0 \pm 5.0$ ( $.18 \pm .18$ )   |
|                                | Periodic M.V. inspection | Camber                          | $-1.25^{\circ} \pm 2.00^{\circ}$   |
|                                |                          | Toe-in                          | $+5.0 \pm 6.0$ ( $.18 \pm 0.25$ )  |

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

## Electrical -- Instruments and Equipment

|                           |  |   |
|---------------------------|--|---|
| Speedometer               | Type   | Pointer                                     |
|                           | Trip odometer (std., opt., n.a.)                 | Standard                                    |
| EGR maintenance indicator |  | None  |
| Charge indicator          | Type   | Warning Light - Standard                    |
|                           | Warning device                                   | None  |
| Temperature indicator     | Type   | Standard Electric Gauge 45° Pointer         |
|                           | Warning device                                   | None  |
| Oil pressure indicator    | Type   | Warning Light - Standard                    |
|                           | Warning device                                   | None  |
| Fuel indicator            | Type   | Standard Electric Gauge 45° Pointer         |
|                           | Warning device                                   |   |
| Wind-shield wiper         | Type (standard)                                  | Two Speed Electric (Column Mounted Control) |
|                           | Type (optional)                                  | Interval Wipe (Column Mounted Control)      |
|                           | Blade length                                     | 454 (18.0)                                  |
|                           | Swept area [cm <sup>2</sup> (in. <sup>2</sup> )] | 4683.2 (725)                                |
| Wind-shield washer        | Type (standard)                                  | Electric Pump (Impeller Type)               |
|                           | Type (optional)                                  | None  |
|                           | Fluid level indicator                            | Standard (Warning Light)                    |
| Horn                      | Type   | Air Electric                                |
|                           | Number used                                      | Two - 1 Lo-Pitch, 1 Hi-Pitch                |
| Other                     |  | See Page 15A                                |

(a) Max. Side to Side Difference Not to Exceed  $0.75^{\circ}$

(b) Max. Side to Side (Left/Right) to be  $0.45^{\circ} \pm 0.75^{\circ}$

(c) Steering Wheel Spokes (clear vision) must be within  $\pm 10^{\circ}$  after Toe Setting

**MVMA Specifications Form  
Passenger Car**

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

**SUPPLEMENTAL PAGE**

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

---

Electrical - Instruments and Equipment (Cont'd.):

- . Brake System Warning Light
- . Directional Turn Signal Lights
- . Emergency Flashers
- . Hi-Beam Indicator
- . Fasten Seat Belt Warning Light
- . Door Ajar Warning Light
- . Low Washer Fluid Warning Light
- . Shift-Up Indicator Light (w/Manual Transmission - Not Available Canada or with 1.6 EFI Engine)
- . Headlamp "ON" Warning Buzzer
- . Cigar Lighter
- . Turbo "Overboost" Warning Light

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

1.6L HO/2V  
(97.6 CID)

1.6L TC/EFI

## Electrical – Supply System

|                         |                          |  |                    |
|-------------------------|--------------------------|--|--------------------|
| Battery                 | Make                     | Motorcraft   |                    |
|                         | Model, std., (opt.)      | Standard   |                    |
|                         | Voltage                  | 12 Volt  |                    |
|                         | Amps at 0°F cold crank   | 380 (a); 410 (b)                                       | 410                |
|                         | Minutes-reserve capacity | 75 (a); 82 (b)   | 82                 |
|                         | Amp/hrs. - 20 hr. rate   | 45 (a); 48 (b)   | 48                 |
|                         | Location                 | Low-Silhouette-Mtd. in LH Apron Forward of Strut Tower |                    |
| Generator or alternator | Type and rating          | E4EF-DA (40 Amp) (a)                                   |                    |
|                         | Ratio (alt. crank/rev.)  | 1.84:1 (a) (2.33:1 w/60 Amp)                           | 2.33:1 (a)         |
|                         | Optional (type & rating) | 10300 E1GF-CA (60 Amp) Incl. w/AC                      |                    |
| Regulator               | Type                     | 10316  | Electronic E4AF-AA |

## Electrical – Starting System

|              |                                   |              |
|--------------|-----------------------------------|--------------|
| Start, motor | Current drain at 0°F              | 255-275 Amps |
| Motor drive  | Engagement type                   | Positive     |
|              | Pinion engages from (front, rear) | Front        |

## Electrical – Ignition System

|             |                                    |                    |                  |
|-------------|------------------------------------|--------------------|------------------|
| Type        | Conventional (std., opt., n.a.)    | N.A.               |                  |
|             | Electronic (std., opt., n.a.)      | Standard           |                  |
|             | Other (specify)                    | N.A.               |                  |
| Coil        | Make                               | Motorcraft         |                  |
|             | Model                              | 12029              | E1EF-AA, E2EF-AA |
|             | Current                            | Engine stopped - A | 5.0              |
|             |                                    | Engine idling - A  | 2.5              |
| Spark plug  | Make                               | Motorcraft         |                  |
|             | Model                              | AWSF-34            | AWSF-22C         |
|             | Thread (mm)                        | 14                 |                  |
|             | Tightening torque [N-m (lb., ft.)] | 10-20 (7-14)       |                  |
|             | Gap                                | 1.12 (0.44)        |                  |
|             | Number per cylinder                |                    |                  |
| Distributor | Make                               | Motorcraft         |                  |
|             | Model                              | Breakerless        |                  |

## Electrical – Suppression

|                  |   |
|------------------|---|
| Locations & type | <p>All Engines: Capacitor in Alternator, Resistor Spark Plugs, Resistance Ignition Wire</p> <p>All 1.6L: Ground Strap Engine To Body</p> <p>1.6 HO Capacitor at Ignition Coil</p> |
|------------------|---|

(a) 1.6L HO/2V - Manual Transmission (With Power Steering)

(b) 1.6L HO/2V Automatic Transmission

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Body Type

ALL MODELS

## Body – Miscellaneous Information

|   |   |  |
|---|---|--|
| Type of finish (lacquer, enamel, other)                         |   | Enamel (Acrylic)   |
| Hood  | Hinge location (front, rear)                  | Rear   |
|   | Type (counterbalance, prop)                   | Prop   |
|   | Release control (internal, external)          | Internal (Primary) Cable Release - External (Secondary)      |
| Trunk lid   | Type (counterbalance, other)                  | Gas Struts   |
|   | Internal release control (elec., mech., n.a.) | N.A.   |
| Hatch-back lid  | Type (counterbalance, other)                  | Gas Struts   |
|   | Internal release control (elec., mech., n.a.) | Electrical   |
| Bumper front  | Bar material & mass, kg (weight, lbs.)        | Polyurethane Fascia - 8.3 lb.                                |
|   | Reinforcement material & mass, kg (lbs.)      | Reinforcement Behind Fascia-606/Aluminum - 13.3 lb.          |
| Bumper rear   | Bar material & mass, kg (weight, lbs.)        | Polyurethane Fascia - 6.2 lb.                                |
|   | Reinforcement material & mass, kg. (lbs.)     | Reinf. Behind Fascia-7021 Aluminum-12.0 lb. or HSLA-30.0 lb. |
| Vent window control (crank, friction, pivot, power)             | Front   | None   |
|   | Rear  | None   |
| Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.) | Front   | Stamped Frame-Coil Spring & Flexolator Foam Pad              |
|   | Rear  | None   |
|   | 3rd seat                                      | None   |
| Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)    | Front   | Stamped Frame-Foam Pad                                       |
|   | Rear  | None   |
|   | 3rd seat                                      | None   |
| Vehicle identification no. location                             |   | Cowl Top Inner Panel - L.H.                                  |

## Frame

Type and description (separate frame, unitized frame, partially-unitized frame)

Unitized Construction

## Glass

|   |      |   |
|---|------|---|
| Backlight slope angle (deg.)  | H121 | 61.2°   |
| Windshield slope angle (deg.)   | H122 | 59.0°   |
| Tumble-Home (deg.)  | W122 | 18.9°   |
| Windshield glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]           | S1   | 6844.2 (1060.8)                                     |
| Side glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )] - total 2-sides | S2   | Door: 2457.7 (381.2)<br>Quarter Glass: 576.3 (89.3) |
| Backlight glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]            | S3   | 12243 (1897)  |
| Total glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]                | S4   | 25155 (3899)  |
| Windshield glass (type)   |      | Laminated   |
| Side glass (type)   |      | Tempered - Safety                                   |
| Backlight glass (type)  |      | Tempered  |

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

Car Line EXP  
 Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Body Type

ALL MODELS

**Restraint System**

|                         |                      |  |
|-------------------------|----------------------|--|
| Active restraint system | Standard/optional    | Standard - Color Keyed Webbing with Tension Eliminator   |
|                         | Type and description | Continuous Loop Single Retractor Deluxe Restraint System with Color Keyed Webbing and Tension Reliever |
|                         | Location             | Retractor Mounted at Base of "B" Pillar, "D" Ring Anchored in Upper "B" Pillar *                       |
| Passive seat belts      | Standard/optional    | N.A.   |
|                         | Power/manual         | N.A.   |
|                         | 2 or 3 point         | N.A.   |
|                         | Knee bar/lap belt    | N.A.   |

\*and the outboard belt end anchored in the side rail, with a boot designed to rotate to facilitate rear compartment access. The system contains soft feel, soft edge webbing. There is no designated rear seating capacity.

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

Car Line EXP  
 Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Body Type

ALL MODELS

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

|   |  |  |
|---|--|--|
| Air conditioning (manual, auto. temp control) |  | Optional, Manual Temperature Control                 |
| Clock (digital, analog)                       |  | Optional, Digital                                    |
| Compass / thermometer                         |  | N.A.   |
| Console (floor, overhead)                     |  | Upper - Standard; Lower - Optional                   |
| Defroster, elec. backlight                    |  | Optional (Mandatory in New York State)               |
| Electronic                                    | Diagnostic warning (integrated, individual)  | N.A.   |
|   | Instrument cluster (list instruments)  | N.A.   |
|   | Keyless entry  | N.A.   |
|   | Tripminder (avg. spd., fuel)   | N.A.   |
|   | Voice alert (list items)   | N.A.   |
|   | Other  |  |
| Fuel door lock (remote, key, electric)        |  | Standard, Electric                                   |
| Lamps   | Auto head on / off delay, dimming  | N.A.   |
|   | Cornering  | N.A.   |
|   | Courtesy (map, reading)  | Standard, Map  |
|   | Door lock, ignition  | N.A.   |
|   | Engine compartment   | Standard   |
|   | Fog  | N.A.   |
|   | Glove compartment  | Optional   |
|   | Trunk  | N.A.   |
|   | Other  |  |
| Mirrors                                       | Day/night (auto. man.)   | Standard, Manual                                     |
|   | L.H. (remote, power, heated)   | Standard, Remote                                     |
|   | R. H. (convex, remote, power, heated)  | Optional, Remote                                     |
|   | Visor vanity (RH / LH, illuminated)  | Optional, 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.   |
|   | Vent windows   | N.A.   |
|   | Rear window  | N.A.   |
|   |  |  |
| Radio systems                                 | Antenna (location, whip, w/shield, power)  | Whip - Right Hand Fender                             |
|   | AM, FM, stereo, tape, CB   | (a)  |
|   | Speaker (number, location) Premium sound   | Optional; Amp w/Frt. Door Speakers and Rear Speakers |
| Roof open air/fixed (flip-up, sliding, "T")   |  | Flip-Up/Open Air, Optional                           |
| Speed control device                          |  | Optional   |
| Speed warning device (light, buzzer, etc.)    |  | N.A.   |
| Tachometer (rpm)                              |  | 7000   |
| Theft protection-type                         |  | N.A.   |

(a) AM-Standard on Base Coupe; AM/FM Stereo - Standard on Luxury Coupe; AM/FM Stereo w/Cassette - Standard on Turbo Coupe; Optional: AM/FM Stereo, AM/FM Stereo w/Cassette, Electronic AM/FM Stereo w/Cassette, Graphic Equalizer

# MVMA Specifications Form

## Passenger Car

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

### METRIC (U.S. Customary) Car and Body Dimensions

See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.  
SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100a "Motor Vehicle Dimensions," unless otherwise specified.

#### Body Type

|              |              |
|--------------|--------------|
| SAE Ref. No. | 3-DOOR (67D) |
|--------------|--------------|

#### Width

|                                  |      |              |
|----------------------------------|------|--------------|
| Tread (front)                    | W101 | 1390 (54.7)  |
| Tread (rear)                     | W102 | 1422 (56.0)  |
| Vehicle width                    | W103 | 1673 (65.9)  |
| Body width at Sg RP (front)      | W117 | 1601 (63.0)  |
| Vehicle width (front doors open) | W120 | 3662 (144.2) |
| Vehicle width (rear doors open)  | W121 | - -          |

#### Length

|                               |      |              |
|-------------------------------|------|--------------|
| Wheelbase                     | L101 | 2393 (94.2)  |
| Vehicle length                | L103 | 4326 (170.3) |
| Overhang (front)              | L104 | 973 (38.3)   |
| Overhang (rear)               | L105 | 960 (37.8)   |
| Upper structure length        | L123 | 2166 (85.3)  |
| Rear wheel C/L "X" coordinate | L127 | 4166 (164.0) |
| Cowl point "X" coordinate     | L125 | 188 (7.4)    |

#### Height\*

|                                     |         |              |
|-------------------------------------|---------|--------------|
| Passenger distribution (frt./rear)  | PD1,2,3 | 210          |
| Trunk/cargo load                    |         | 0            |
| Vehicle height                      | H101    | 1282 (50.5)  |
| Cowl point to ground                | H114    | 914 (36.0)   |
| Deck point to ground                | H138    | 845.4 (33.3) |
| Rocker panel-front to ground        | H112    | 203 (8.0)    |
| Bottom of door closed-front to grd. | H133    | 285 (11.2)   |
| Rocker panel-rear to ground         | H111    | 207 (8.1)    |
| Bottom of door closed-rear to grd.  | H135    | - -          |

#### Ground Clearance\*

|   |      |   |
|---|------|---|
| Front bumper to ground                      | H102 | 360 (14.2)                                  |
| Rear bumper to ground                       | H104 | 340 (13.4)                                  |
| Bumper to ground [front at curb mass (wt.)] | H103 | 436 (17.1)                                  |
| Bumper to ground [rear at curb mass (wt.)]  | H105 | 392 (15.4)                                  |
| Angle of approach (degrees)                 | H106 | 20.7°                                       |
| Angle of departure (degrees)                | H107 | 21.1°                                       |
| Ramp breakover angle (degrees)              | H147 | 14.8°                                       |
| Rear axle differential to ground            | H153 | - -   |
| Min. running ground clearance               | H156 | 134 (5.3)                                   |
| Location of min. run. grd. clear.           |      | Exhaust Pipe @ 2336 Longitudinal Coordinate |

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

# MVMA Specifications Form

## Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Body Type

SAE  
Ref.  
No. 3-DOOR (67D)

### Front Compartment

|                                  |     |             |
|----------------------------------|-----|-------------|
| Sg RP front, "X" coordinate      | L31 | 3107 (43.6) |
| Effective head room              | H61 | 929 (36.6)  |
| Max. eff. leg room (accelerator) | L34 | 1058 (41.7) |
| Sg RP (front to heel)            | H30 | 212 (8.3)   |
| Design H-point front travel      | L17 | 180 (7.1)   |
| Shoulder room                    | W3  | 1302 (51.3) |
| Hip room                         | W5  | 1274 (50.2) |
| Upper body opening to ground     | H50 | 1186 (46.7) |
| Steering wheel angle             | H18 | 592 (23.3)  |
| Back angle                       | L40 | 24.0°       |

### Rear Compartment

(NOT APPLICABLE)

|                              |     |  |
|------------------------------|-----|--|
| Sg RP Point couple distance  | L50 |  |
| Effective head room          | H63 |  |
| Min. effective leg room      | L51 |  |
| Sg RP (second to heel)       | H31 |  |
| Knee clearance               | L48 |  |
| Compartment room             | L3  |  |
| Shoulder room                | W4  |  |
| Hip room                     | W6  |  |
| Upper body opening to ground | H51 |  |
| Back angle                   | L41 |  |

### Luggage Compartment

|                                       |      |            |
|---------------------------------------|------|------------|
| Usable luggage capacity [L (cu. ft.)] | V1   | N.A.       |
| Liftover height                       | H195 | 765 (30.1) |

### Interior Volumes (EPA Classification)

|                                 |  |            |
|---------------------------------|--|------------|
| Vehicle class                   |  | TWO SEATER |
| Interior volume index (cu. ft.) |  | N.A.       |
| Trunk/cargo index (cu. ft.)     |  | N.A.       |



**MVMA Specifications Form****Passenger Car****METRIC (U.S. Customary)****Car and Body Dimensions** See Key Sheets for definitionsCar Line EXPModel Year 1985Issued 9/84

Revised (•) \_\_\_\_\_

Body Type

SAE  
Ref.  
No.

3-DOOR (67D)

**Station Wagon – Third Seat**

(NOT APPLICABLE)

|                             |     |  |
|-----------------------------|-----|--|
| Shoulder room               | W85 |  |
| Hip room                    | W86 |  |
| Effective leg room          | L86 |  |
| Effective head room         | H86 |  |
| Effective T-point head room | H89 |  |
| Seat facing direction       | SD1 |  |
| Back angle                  | L88 |  |

**Station Wagon – Cargo Space**

(NOT APPLICABLE)

|  |      |  |
|--|------|--|
| 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**

|  |      |              |
|--|------|--------------|
| Front seat back to load floor height                     | H197 | 580.5 (22.9) |
| Cargo length at front seat back height                   | L208 | 892 (35.1)   |
| Cargo length at floor (front)                            | L209 | 1589 (62.6)  |
| Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]  | V3   | .89 (31.5)   |
| Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )] | V4   | N.A.         |
| Cargo volume index-rear of 2-seat                        | V11  | N.A.         |

**Aerodynamics\***

|   |                           |
|---|---------------------------|
| Wheel lip to ground, front                        | 624.8 (24.6)              |
| Wheel lip to ground, rear                         | 599.4 (23.6)              |
| Frontal area [m <sup>2</sup> (ft. <sup>2</sup> )] | 19.1 ft. <sup>2</sup> (a) |
| Drag coefficient (Cd)                             |                           |

\* Describe measurement method.

(a) Includes two outside mirrors

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

Car Line EXP  
 Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Body Type

ALL MODELS

**Vehicle Fiducial Marks**

| Fiducial Mark Number* |      | Define Coordinate Location  |
|-----------------------|------|---|
| 1 & 2<br>Front        |      | <p>The rear vertical edge of the master control notch on the under side of the front door rocker panels locates the "<u>X</u>" coordinate relative to body grid.</p> <p>X = 2535 (99.8)<br/>           Y = 721 (28.4)<br/>           Z = 486 (19.1)</p>   |
|                       |      |   |
| 3 & 4<br>Rear         |      | <p>The intersection of the horizontal-vertical surfaces on the rocker panel door rabbet locates the "<u>Y</u>" and "<u>Z</u>" coordinates relative to body grid at particular fore-aft inch lines. The fore-aft location can be determined by the reference dimension from - Fiducial Mark 1 and 2.</p> |
|                       |      |   |
| Front                 | W21  | 721 (28.4)  |
|                       | L54  | 2535 (99.8)   |
|                       | H81  | 485 (19.1)  |
|                       | H161 | - -   |
|                       | H163 | - -   |
| Rear                  | W22  | 721 (28.4)  |
|                       | L55  | 3300 (129.9)  |
|                       | H82  | 479 (18.9)  |
|                       | H162 | - -   |
|                       | H164 | - -   |

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

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

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

Body Type

SAE  
Ref.  
No.

ALL MODELS

**Lamps and Headlamp Shape\***

|   |                 |           |  |
|---|-----------------|-----------|--|
| Height above ground to center of bulb or marker | Headlamp (H127) | Highest** | 643.0 (25.3)                                       |
|   |                 | Lowest    | - -  |
|   | Taillamp (H128) | Highest** | 727.5 (28.6)                                       |
|   |                 | Lowest    | 727.5 (28.6)                                       |
|   | Sidemarker      | Front     | 489.0 (19.3)                                       |
|   |                 | Rear      | 700.0 (27.6)                                       |
| Distance from C/L of car to center of bulb      | Headlamp        | Inside    | - -  |
|   |                 | Outside** | 11.0 (43.4)  |
|   | Taillamp        | Inside    | 393.5 (15.5)                                       |
|   |                 | Outside** | 650.5 (25.6)                                       |
|   | Directional     | Front     | 765.5 (30.1)                                       |
|   |                 | Rear      | 521.5 (20.5) Inner Lamp<br>650.5 (25.6) Outer Lamp |
|   | Headlamp shape  |           | Rectangular - Single Halogen                       |

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

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

CarLine EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

\*\* Shipping mass (weight) definition – Less engine coolant and fuel

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

| Equipment                        | Optional Equipment Differential Mass (weight)* |              |               | Remarks |
|----------------------------------|--|--------------|---------------|---------|
|                                  | MASS, kg. (weight, lb.)                        |              |               |         |
|                                  | Front  | Rear         | Total         |         |
| EMISSION SYSTEMS:                |  |              |               |         |
| California                       | 0.5<br>(1)                                     | 0<br>(0)     | 0.5<br>(1)    |         |
| Canada                           | -7.3<br>(-16)                                  | -0.9<br>(-2) | -8.2<br>(-18) |         |
| TRANSAXLE:                       |  |              |               |         |
| Automatic (ATX)                  | 30.8<br>(68)                                   | -2.7<br>(-6) | 28.1<br>(62)  |         |
| TIRES:                           |  |              |               |         |
| P175/80R13 RWL                   | 0.5<br>(1)                                     | 0.5<br>(1)   | 1.0<br>(2)    |         |
| P165/70R 365 BSW                 | 1.4<br>(3)                                     | 0.9<br>(2)   | 2.3<br>(5)    |         |
| P185/65R 365 "TRX"               | 2.3<br>(5)                                     | 1.8<br>(4)   | 4.1<br>(9)    |         |
| MISCELLANEOUS OPTIONS:           |  |              |               |         |
| Air Conditioner - Man.           | 19.1<br>(42)                                   | 0<br>(0)     | 19.1<br>(42)  |         |
| Engine Block Heater              | 0.5<br>(1)                                     | 0<br>(0)     | 0.5<br>(1)    |         |
| Radiator Assy. (1.49 THK 13 FPI) | 2.7<br>(6)                                     | 0<br>(0)     | 2.7<br>(6)    |         |
| Radiator Assy. (1.49 THK 10 FPI) | 2.3<br>(5)                                     | 0<br>(0)     | 2.3<br>(5)    |         |
| AM Radio Delete                  | -1.4<br>(-3)                                   | -0.5<br>(-1) | -1.9<br>(-4)  |         |
| AM/FM MPX                        | 0.9<br>(2)                                     | 0.9<br>(2)   | 1.8<br>(4)    |         |
| AM/FM MPX - Cassette             | 1.4<br>(3)                                     | 0.9<br>(2)   | 2.3<br>(5)    |         |

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

|  | Optional Equipment Differential Mass (weight)* |              |              |         |
|--|--|--------------|--------------|---------|
| Equipment                              | MASS, kg. (weight, lb.)                        |              |              | Remarks |
|  | Front  | Rear         | Total        |         |
| MISCELLANEOUS OPTIONS:<br>(cont'd.)    |  |              |              |         |
|  |  |              |              |         |
| Sound System, Graphic<br>Equalizer     | 1.4<br>(3)                                     | 0.9<br>(2)   | 2.3<br>(5)   |         |
|  |  |              |              |         |
| Premium Sound                          | 1.8<br>(4)                                     | 0.5<br>(1)   | 2.3<br>(5)   |         |
|  |  |              |              |         |
| Roof Flip-Up Sun                       | 2.7<br>(6)                                     | 6.8<br>(15)  | 9.5<br>(21)  |         |
|  |  |              |              |         |
| Speed Control                          | 1.8<br>(4)                                     | 0<br>(0)     | 1.8<br>(4)   |         |
|  |  |              |              |         |
| Steering, Power                        | 6.8<br>(15)                                    | 0.9<br>(2)   | 7.7<br>(17)  |         |
|  |  |              |              |         |
| Wheel - Wide Aluminum<br>Spoke TRX     | -0.5<br>(-1)                                   | -0.5<br>(-1) | -1.0<br>(-2) |         |
|  |  |              |              |         |
| Wheel - Styled Steel<br>White TRX      | 2.3<br>(5)                                     | 2.7<br>(6)   | 5.0<br>(11)  |         |
|  |  |              |              |         |
| Protection - Road<br>Abrasion          | 0.5<br>(1)                                     | 0.5<br>(1)   | 1.0<br>(2)   |         |
|  |  |              |              |         |
| Suspension-TRX Rallye                  | 1.8<br>(4)                                     | 0.5<br>(1)   | 2.3<br>(5)   |         |
|  |  |              |              |         |
| Seat - Drivers Adjust.<br>4-Way Manual | 1.4<br>(3)                                     | 2.3<br>(5)   | 3.7<br>(8)   |         |
|  |  |              |              |         |
| Seat - Individual<br>Upgraded          | 0.5<br>(1)                                     | 0<br>(0)     | 0.5<br>(1)   |         |
|  |  |              |              |         |
| Steering Column - Tilt                 | 1.8<br>(4)                                     | 0.9<br>(2)   | 2.7<br>(6)   |         |
|  |  |              |              |         |
| Light - Shift Indicator                | 0.5<br>(1)                                     | 0<br>(0)     | 0.5<br>(1)   |         |
|  |  |              |              |         |
| French Label - Quebec                  | 0.5<br>(1)                                     | 0<br>(0)     | 0.5<br>(1)   |         |
|  |  |              |              |         |
| Speedometer - Kilos                    | 0.5<br>(1)                                     | 0<br>(0)     | 0.5<br>(1)   |         |
|  |  |              |              |         |

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

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

|   | Optional Equipment Differential Mass (weight)* |      |       |         |
|---|--|------|-------|---------|
| Equipment                                 | MASS, kg. (weight, lb.)                        |      |       | Remarks |
|   | Front  | Rear | Total |         |
| MISCELLANEOUS OPTIONS:<br>(cont'd.)       |  |      |       |         |
|   |  |      |       |         |
| License Plate Bracket                     | 0.5  | 0    | 0.5   |         |
| Front                                     | (1)  | (0)  | (1)   |         |
|   |  |      |       |         |
| Vent Window - Manual                      | 1.4  | 0.5  | 1.9   |         |
|   | (3)  | (1)  | (4)   |         |
|   |  |      |       |         |
| Accent Stripe                             | 0.5  | 0    | 0.5   |         |
|   | (1)  | (0)  | (1)   |         |
|   |  |      |       |         |
| Bodyside Tape Stripe -<br>Delete          | 0.5  | 0    | 0.5   |         |
|   | (1)  | (0)  | (1)   |         |
|   |  |      |       |         |
| Body - TuTone Paint                       | 0.5  | 0    | 0.5   |         |
|   | (1)  | (0)  | (1)   |         |
|   |  |      |       |         |
| Vanity Mirror - R.H.<br>Visor Illuminated | 0.5  | 0    | 0.5   |         |
|   | (1)  | (0)  | (1)   |         |
|   |  |      |       |         |
| Battery - Heavy Duty                      | 0.5  | 0    | 0.5   |         |
|   | (1)  | (0)  | (1)   |         |
|   |  |      |       |         |
| Defroster - Rear Window<br>Electric       | 0.5  | 0    | 0.5   |         |
|   | (1)  | (0)  | (1)   |         |
|   |  |      |       |         |
| Cargo Area Cover                          | -0.5   | 2.3  | 1.8   |         |
|   | (-1)   | (5)  | (4)   |         |
|   |  |      |       |         |
| Luxury Decor Group                        | 5.0  | 6.8  | 11.8  |         |
|   | (11)   | (15) | (26)  |         |
|   |  |      |       |         |
| Console                                   | 1.4  | 0.9  | 2.3   |         |
|   | (3)  | (2)  | (5)   |         |
|   |  |      |       |         |
| Seat - Special Funct.<br>Adjusting Manual | 0.9  | 2.3  | 3.2   |         |
|   | (2)  | (5)  | (7)   |         |
|   |  |      |       |         |
| Mirror R.H. Convex<br>Remote Control      | 0.5  | 0.5  | 1.0   |         |
|   | (1)  | (1)  | (2)   |         |
|   |  |      |       |         |
| Tinted Glass Complete                     | 0.5  | 0    | 0.5   |         |
|   | (1)  | (0)  | (1)   |         |
|   |  |      |       |         |
| Wipers - Interval                         | 0.5  | 0    | 0.5   |         |
|   | (1)  | (0)  | (1)   |         |
|   |  |      |       |         |

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

## MVMA Specifications Form

### Passenger Car

Car Line EXP  
Model Year 1985 Issued 9/84 Revised (●) \_\_\_\_\_

**METRIC (U.S. Customary)**[illegible]

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



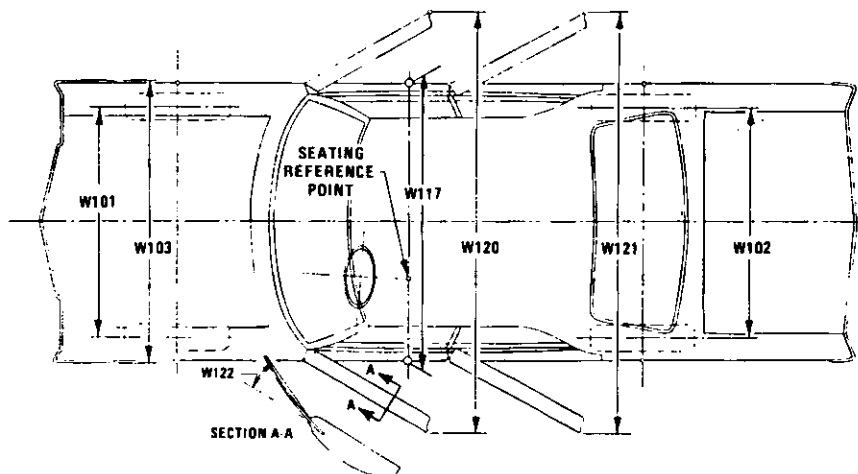
# MVMA Specifications Form

## Passenger Car

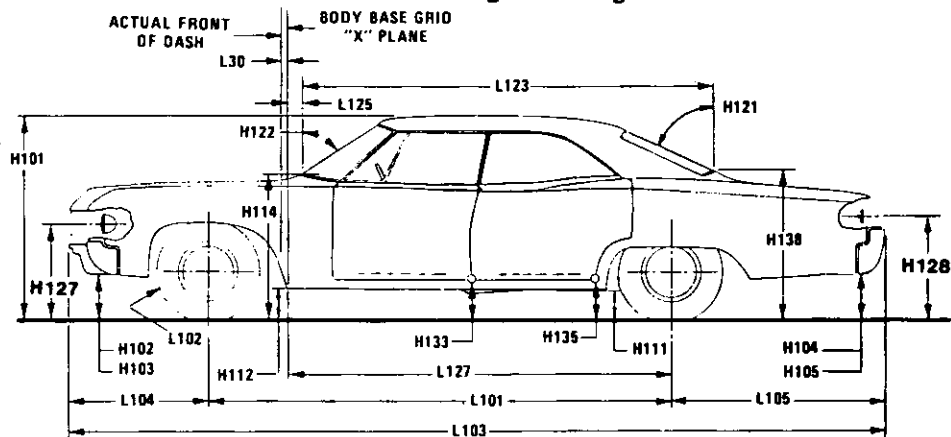
METRIC (U.S. Customary)

### Exterior Car And Body Dimensions – Key Sheet

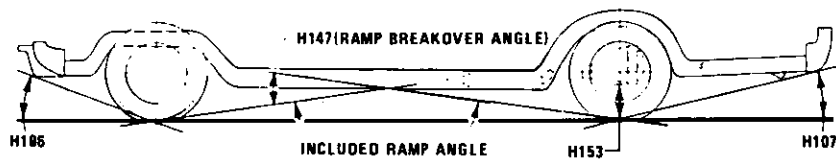
#### Exterior Width



#### Exterior Length & Height



#### Exterior Ground Clearance



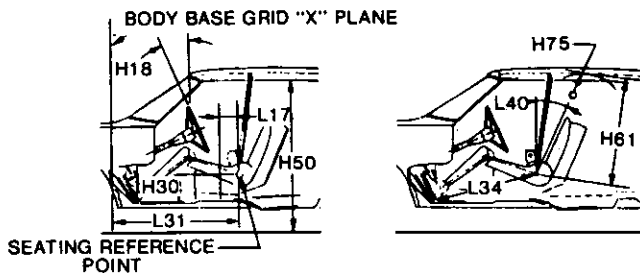
# MVMA Specifications Form

## Passenger Car

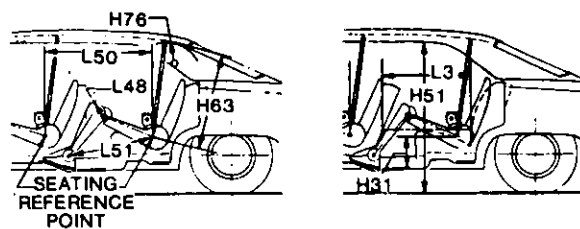
METRIC (U.S. Customary)

### Interior Car And Body Dimensions – Key Sheet

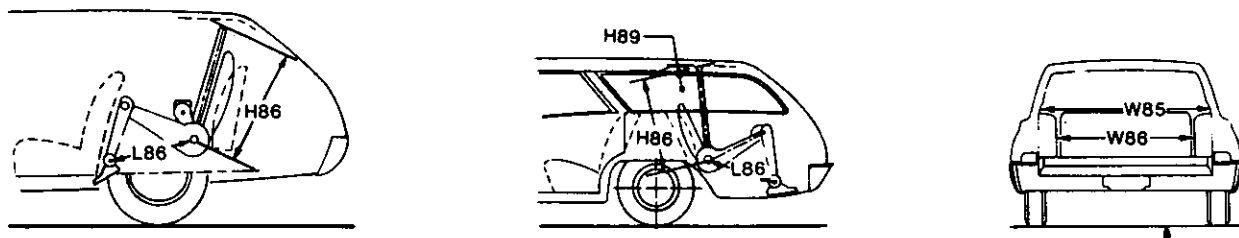
#### Front Compartment



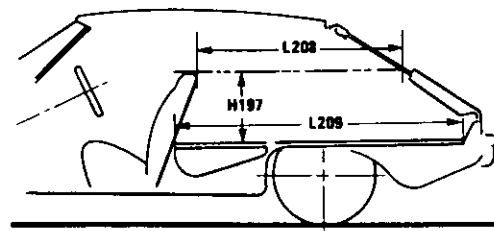
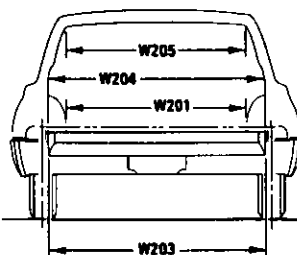
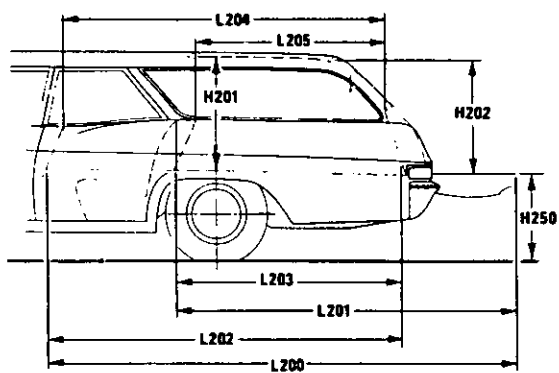
#### Rear Compartment



#### Third Seat



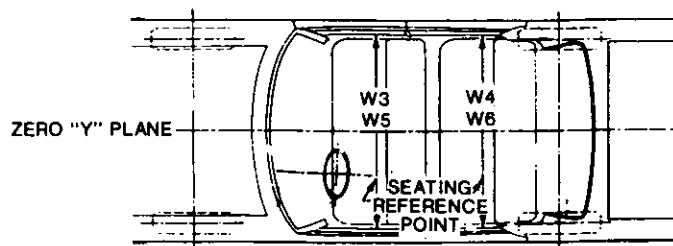
#### Cargo Space



#### Hatchback

#### Station Wagon

#### Interior Width



# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

##### Seating Reference Point

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

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

##### Width Dimensions

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

##### Length Dimensions

- L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash in forward of the zero "X" plane.
- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L102 TIRE SIZE. As specified by the manufacturer.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHANG—FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L105 OVERHANG—REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case

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

- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.
- L125 COWL POINT "X" COORDINATE.

##### Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H112 ROCKER PANEL—FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H132 BOTTOM OF DOOR OPEN—FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.
- H111 ROCKER PANEL—REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H134 BOTTOM OF DOOR OPEN—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.
- H135 BOTTOM OF DOOR CLOSED—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield are running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.
- H127 HEADLAMP TO GROUND—CURB MASS (WT.). The dimension measured vertically from the centerline of the lowest headlamp lens to ground.
- H128 TAILLAMP TO GROUND—CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.

##### Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND CURB MASS (WT.). Measured in the same manner as H104.
- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H104.

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius are the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius are the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 REAR BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

#### Front Compartment Dimensions

- PD1 PASSENGER DISTRIBUTION—FRONT.
- L31 SgRP—FRONT "X" COORDINATED.
- H61 EFFECTIVE HEAD ROOM—FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP—front to the headlining plus 102 mm (4.0 in.).
- H75 EFFECTIVE T-POINT HEAD ROOM—FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).
- L34 MAXIMUM EFFECTIVE LEG ROOM—ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP—front plus 254 mm (10.0 in.) measured with right foot on the undeepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- H30 SgRP—FRONT TO HEEL. The dimension measured vertically from the SgRP—front to the accelerator heel point.
- L17 DESIGN H-POINT—FRONT TRAVEL. The dimension measured horizontally between the design H-point—front in the foremost and rearmost seat trace positions.
- W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within the belt line and 254 mm (10.0 in.) above the SgRP—front.
- W5 HIP ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP—front and 76 mm (3.0 in.) fore and aft the SgRP—front.
- 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.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- 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.
- L40 BACK ANGLE—FRONT. The angle measured between a vertical line through the SgRP—front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

#### Rear Compartment Dimensions

- PD2 PASSENGER DISTRIBUTION—SECOND.
- L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP—front to the SgRP—second.

- H63 EFFECTIVE HEAD ROOM—SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H76 EFFECTIVE T-POINT HEAD ROOM—SECOND. Measured in the same manner as H75.
- L51 MINIMUM EFFECTIVE LEG ROOM—SECOND. The dimension measured along a line from the ankle pivot center to the SgRP—second plus 254 mm (10.0 in.).
- H31 SgRP—SECOND TO HEEL. The dimension measured vertically from the SgRP—second to the two dimensional device heel point on the depressed floor covering.
- L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).
- L3 COMPARTMENT ROOM—SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.
- W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP—second within 254-406 mm (10.0-16.0 in.) above the SgRP—second.
- W6 HIP ROOM—SECOND. Measured in the same manner as W5.
- H51 UPPER BODY OPENING TO GROUND—SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP—second.
- L-41 Same as L-40.

#### Luggage Compartment Dimensions

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

#### 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

- PD3 PASSENGER DIRECTION—THIRD.
- W85 SHOULDER ROOM—THIRD. Measured in the same manner as W5.
- W86 HIP ROOM—THIRD. Measured in the same manner as W5.
- L86 EFFECTIVE LEG ROOM—THIRD. The dimension measured along a line from the ankle pivot center to the SgRP—third plus 254 mm (10.0 in.).
- H86 EFFECTIVE HEAD ROOM—THIRD. The dimension, measured along a line 8 deg. from the SgRP—third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H89 EFFECTIVE T-POINT HEAD ROOM—THIRD. Measured in the same manner as H75.
- L-88 Same as L-40.

#### Station Wagon – Cargo Space Dimensions

- L200 CARGO LENGTH—OPEN—FRONT. The minimum dimension measured longitudinally from the back of the front

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

#### Station wagon – Cargo Space Dimensions (con't.)

- seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L201 CARGO LENGTH—OPEN—SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L202 CARGO LENGTH—CLOSED—FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH—CLOSED—SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT—FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab back panel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT—SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH—WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure the sheet metal.
- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear door opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND (CURB MASS WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- V2 STATION WAGON  
Measured in inches:  

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

$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN CARGO VOLUME. As specified by the manufacturer.

#### V10 STATION WAGON (REAR OF SECOND SEAT)

Measured in inches:

$$\frac{W4 \times H201 \times L205}{1728} = \text{ft.}^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L205}{10^9} = \text{liters}$$

#### Hatchback – Cargo Space Dimensions

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

H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT. The vertical dimension from the horizontal tangent to top of seatback to undepressed floor covering at zero "Y" plane.

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 horizontal dimension from the "X" plane tangent to 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—HATCHBACK—SECOND. The horizontal dimension 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.

V3 HATCHBACK.

Measured in inches:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = \text{ft.}^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

#### V11 HATCHBACK (REAR OF SECOND SEAT)

Measured in inches:

$$\frac{W4 \times H198 \times \frac{L210 + L211}{2}}{1728} = \text{ft.}^3$$

Measured in mm:

$$\frac{W4 \times H198 \times \frac{L210 + L211}{2}}{10^9} = \text{litres}$$

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

#### Index

| Subject                                   | Page No.   |
|---|------------|
| Aerodynamics .....                        | 22         |
| Alternator .....                          | 16         |
| Automatic Transmission .....              | 9          |
| Axis, Steering .....                      | 14         |
| Axle, Rear .....                          | 10         |
| Axle Shafts .....                         | 10         |
| Battery .....                             | 16         |
| Brakes—Parking, Service .....             | 12, 13     |
| Camber .....                              | 15         |
| Camshaft .....                            | 3          |
| Capacities .....                          |            |
| Cooling System .....                      | 5          |
| Fuel Tank .....                           | 6          |
| Lubricants .....                          |            |
| Engine Crankcase .....                    | 4          |
| Transmission .....                        | 9          |
| Rear Axle .....                           | 10         |
| Car Models .....                          | 1          |
| Car and Body Dimensions .....             |            |
| Width .....                               | 20         |
| Length .....                              | 20         |
| Height .....                              | 20         |
| Ground Clearance .....                    | 20         |
| Front Compartment .....                   | 21         |
| Rear Compartment .....                    | 21         |
| Luggage Compartment .....                 | 21         |
| Station Wagon — Third Seat .....          | 22         |
| Station Wagon — Cargo Space .....         | 22         |
| Hatchback — Cargo Space .....             | 22         |
| Carburetor .....                          | 2, 6       |
| Caster .....                              | 15         |
| Choke, Automatic .....                    | 6          |
| Clutch — Pedal Operated .....             | 8          |
| Coil, Ignition .....                      | 16         |
| Connecting Rods .....                     | 4          |
| Convenience Equipment .....               | 19         |
| Cooling System .....                      | 5          |
| Crankshaft .....                          | 4          |
| Cylinders and Cylinder Head .....         | 3          |
| Diesel Information .....                  | 4          |
| Dimension Definitions .....               |            |
| Key Sheet — Exterior .....                | 27, 29     |
| Key Sheet — Interior .....                | 28, 30, 31 |
| Electrical System .....                   | 15, 16     |
| Emission Controls .....                   | 7          |
| Engine — General .....                    |            |
| Bore, Stroke, Type .....                  | 3          |
| Compression Ratio .....                   | 2          |
| Displacement .....                        | 2, 3       |
| Firing Order, Cylinder Numbering .....    | 3          |
| General Information, Power & Torque ..... | 2          |
| Identification Number Location .....      | 17         |
| Power Teams .....                         | 2          |
| Exhaust System .....                      | 7          |
| Equipment Availability, Convenience ..... | 19         |
| Fan, Cooling .....                        | 5          |
| Fiducial Marks .....                      | 23         |
| Filters — Engine Oil, Fuel System .....   | 4          |
| Frame .....                               | 17         |
| Front Suspension .....                    | 11         |
| Front Wheel Drive Unit .....              | 10         |
| Fuel System .....                         | 6          |
| Fuel Injection .....                      | 6          |
| Fuel Tank .....                           | 6          |
| Generator and Regulator .....             | 16         |
| Glass .....                               | 17         |
| Headroom — Body .....                     | 21, 22     |
| Heights — Car and Body .....              | 20         |
| Horns .....                               | 15         |
| Horsepower — Brake .....                  | 2          |
| Ignition System .....                     | 16         |
| Inflation — Tires .....                   | 13         |
| Instruments .....                         | 15         |

| Subject                                    | Page No. |
|--|----------|
| Kingpin (Steering Axis) .....              | 14       |
| Lamps and Headlamp Shape .....             | 24       |
| Legroom .....                              | 21, 22   |
| Lengths — Car and Body .....               | 20       |
| Leveling, Suspension .....                 | 11       |
| Lifters, Valve .....                       | 4        |
| Linings — Clutch, Brake .....              | 8, 12    |
| Lubrication — Transmission .....           | 8, 9     |
| Luggage Compartment .....                  | 21       |
| Mass .....                                 | 25, 26   |
| Models .....                               | 1        |
| Motor Starting .....                       | 16       |
| Muffler .....                              | 7        |
| Passenger Capacity .....                   | 1        |
| Passenger Mass Distribution .....          | 25       |
| Pistons .....                              | 3        |
| Power Brakes .....                         | 12       |
| Power, Engine .....                        | 2        |
| Power Steering .....                       | 14       |
| Power Teams .....                          | 2        |
| Propeller Shaft, Universal Joints .....    | 10       |
| Pumps — Fuel .....                         | 6        |
| Water .....                                | 5        |
| Radiator — Cap, Hoses .....                | 5        |
| Ratios — Axle .....                        | 2, 9     |
| Compression .....                          | 2        |
| Steering .....                             | 14       |
| Transmission .....                         | 2, 8, 9  |
| Rear Axle .....                            | 2, 9, 10 |
| Regulator — Generator .....                | 16       |
| Restraint System .....                     | 18       |
| Rims .....                                 | 13       |
| Rods — Connecting .....                    | 4        |
| Seats .....                                | 17       |
| Shock Absorbers, Front & Rear .....        | 11       |
| Spark Plugs .....                          | 16       |
| Speedometer .....                          | 15       |
| Springs — Front & Rear Suspension .....    | 11       |
| Stabilizer (Sway Bar) — Front & Rear ..... | 11       |
| Starting System .....                      | 16       |
| Steering .....                             | 14       |
| Suppression — Ignition, Radio .....        | 16       |
| Suspension — Front & Rear .....            | 11       |
| Tail Pipe .....                            | 7        |
| Theft Protection .....                     | 19       |
| Thermostat, Cooling .....                  | 5        |
| Tires .....                                | 13       |
| Toe-In .....                               | 15       |
| Torque Converter .....                     | 9        |
| Torque — Engine .....                      | 2        |
| Transaxle .....                            | 9        |
| Transmission — Types .....                 | 2, 8, 9  |
| Transmission — Automatic .....             | 2, 8, 9  |
| Transmission — Manual .....                | 2, 8, 9  |
| Transmission — Ratios .....                | 2, 9     |
| Tread .....                                | 20       |
| Trunk Cargo Load .....                     | 1        |
| Trunk Luggage Capacity .....               | 21       |
| Turning Diameter .....                     | 14       |
| Unitized Construction .....                | 17       |
| Universal Joints, Propeller Shaft .....    | 10       |
| Valve System .....                         | 4        |
| Vehicle Identification Number .....        | 17       |
| Voltage Regulator .....                    | 16       |
| Water Pump .....                           | 5        |
| Weights .....                              | 25, 26   |
| Wheel Alignment .....                      | 15       |
| Wheelbase .....                            | 20       |
| Wheels & Tires .....                       | 13       |
| Wheel Spindle .....                        | 14       |
| Widths — Car and Body .....                | 20       |
| Windshield .....                           | 17       |
| Windshield Wiper and Washer .....          | 15       |