# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

## Passenger Car

# 1987

| Manufacturer | Car Line | |
|---|---|---|
| FORD MOTOR COMPANY | EXP | |
| Mailing Address | | |
| P.O. BOX 2053<br>DEARBORN, MICHIGAN 48121 | Issued<br>APRIL, 1986 | Revised<br>OCTOBER, 1986 |

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

mvma

Motor Vehicle Manufacturers Association
of the United States, Inc.

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) 10/86

## Car Models

| | Model Description & Drive (FWD/RWD) | Introduction Date | Make, Car Line, Series, Body Type (Mfgr's Model Code) | No. of Designated Seating Positions (Front/Rear) | Max. Trunk/Cargo Load—Kilograms (Pounds) |
|---|---|---|---|---|---|
| (•) | % **BASE** (LUXURY COUPE) | 10/86 | | | |
| | 2-Door Hatchback | | 67D/HVS | 2/0 | 22.68 (50) |
| (•) | % **SPORT** (SPORT COUPE) | 10/86 | | | |
| | 2-Door Hatchback | | 67D/HVD (B9C) | 2/0 | 22.68 (50) |

% Front Wheel Drive (FWD)

# MVMA Specifications Form
# Passenger Car

## METRIC (U.S. Customary)

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) 6/86

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

| | SERIES AVAILABILITY | ENGINE | | | | | Exhaust S/D | TRANSMISSION/ TRANSAXLE | TRANS AXLE RATIO • (std. first) |
|---|---|---|---|---|---|---|---|---|---|
| | | Displ. Liters ($in^3$) | Carb. (Barrels, FI, etc.) | Compr. Ratio | SAE Net at RPM Power kW (bhp) | SAE Net at RPM Torque N·m (lb.ft.) | | | |
| | **50 STATES/ALTITUDE/CANADA** | | | | | | | | |
| (•) | Base (Luxury Coupe) | 1.9 (113.5) | CFI | 9.0 | 67 (90) 4800 | 144 (106) 3400 | S | MTX III ATX | 3.52/2.61% 3.26@ |
| | Sport (Sport Coupe) | 1.9 (113.5) | EFI | 9.0 | 86 (115) 5200 | 163 (120) 4400 | S | MTX III | 3.73/2.73% |

MTX III — 5-Speed Manual
ATX — 3-Speed Automatic
% — 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.
@ — Transfer Ratio
• — For Final Drive Ratios — See Page 8

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) _____

| Engine Description/Carb. Engine Code | 1.9L CFI | 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, (SIHC) Single Inhead 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.) (machined) | | Cast Iron & 39.5 (87) | |
| Cylinder block deck height | | 212.8 (8.38) | |
| Cylinder block length | | | |
| Deck clearance (minimum) (above or below block) | | .24 (.0095) Above | .06 (.002) Below |
| Cylinder head material & mass kg (lbs.) | | Aluminum & 11.3 (25) | |
| Cylinder head volume ($cm^3$) | | 39.6 Nominal | 55.0 |
| Cylinder liner material | | N/A | |
| Head gasket thickness (compressed) | | 1.6 (.063) | |
| Minimum combustion chamber total volume ($cm^3$) | | 46.0 | 53.4 |
| 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 (lbs.)]** | | Aluminum & 3.4 (7.5) | Aluminum & 5.44 (12.0) |
| Exhaust manifold material & mass [kg (lbs.)]** | | Cast Iron & 4.99 (11.0) | Steel Tubes & 9.07 (20.0) |
| Recommended fuel (leaded, unleaded, diesel) | | Unleaded | |
| Fuel antiknock index $\frac{(R+M)}{2}$ | | 87 Minimum | |
| Total dressed engine mass (wt) dry*** | | 127 (280.9) | 132 (290.6) |

## Engine — Pistons

| | | |
|---|---|---|
| Material & mass, g (weight, oz.)-piston only | Cast Aluminum Alloy<br>298 (10.5) | 335 (11.8) |

## Engine — Camshaft

| | | | |
|---|---|---|---|
| Location | | In Cylinder Head | |
| Material & mass kg (weight, lbs.) | | Powdered Metal & 2.51 (5.53) | |
| 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.

**Finished state.

***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 EXP
Model Year 1987 Issued 4/86 Revised (•) _____

| Engine Description/Carb. Engine Code | 1.9L CFI | 1.9L EFI |
|---|---|---|

### Engine — Valve System

| | | | |
|---|---|---|---|
| Hydraulic lifters (std., opt., NA) | | Standard (Roller Tappets) | |
| Valves | Number intake/exhaust | 4/4 | |
| | Head O.D. intake/exhaust | 39 (1.54)/34 (1.34) | 42 (1.65)/37 (1.46) |

### Engine — Connecting Rods

| | |
|---|---|
| Material & mass [kg., (weight, lbs.)]* | Forged Powdered Metal & 0.50 (1.10) |

### Engine — Crankshaft

| | | |
|---|---|---|
| Material & mass [kg., (weight, lbs.)]* | | Nodular Cast Iron, 6.08 (13.4) |
| End thrust taken by bearing (no.) | | #3 |
| Number of main bearings | | 5 |
| Seal (material, one, two piece design, etc.) | Front | Rubber, One Piece |
| | Rear | Rubber, One Piece |

### 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.) | 3.79 (4.0), Less 0.47 (0.5) |

### 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 | |

*Finished State

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

Car Line EXP
Model Year 1987 Issued 4/86 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 (8.0) |
| | 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) | Direct |
| | 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. 99° (210°) |
| | Fan shroud (material) | Metal |

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) ____

| Engine Description/Carb. Engine Code | 1.9L CFI | 1.9L EFI |
|---|---|---|

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

| | | | Central Fuel Injection | Electronic Fuel Injection |
|---|---|---|---|---|
| Induction type: carburetor, fuel injection system, etc. | | | Central Fuel Injection | Electronic Fuel Injection |
| Manufacturer | | | Ford (EED — Rawsonville) | Bosch (Injector) |
| Carburetor | Choke (type) | | N/A | |
| | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual | 800 Neutral | 1000 Neutral |
| | | | — | |
| | | Automatic | 800 Drive | N/A |
| | | | — | |
| Idle A/F mix. | | | 14.64:1 | |
| Fuel injection | Point of injection (no.) | | Throttle Body (1) | Intake Port (4) |
| | Constant, pulse, flow | | Pulse | |
| | Control (electronic, mech.) | | Electronic | |
| | System pressure [kPa (psi)] | | 99.98 (14.5) | 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.) | | Electric | |
| | Location (eng., tank) | | In-Tank | |
| | Pressure range [kPa (psi)] | | 99.98 (14.5) Nominal | 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.)] | | Steel & 6.6 (14.5) |
| Filler pipe | Location & material | Right Rear Quarter Panel; Steel |
| | Connection to tank | Rubber Hoses & Clamps |
| Fuel line (material) | | Steel |
| Fuel hose (material) | | 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 | |

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

Car Line EXP

Model Year 1987 Issued 4/86 Revised (•)

| Engine Description/Carb. Engine Code | 1.9L CFI | 1.9L EFI |
|---|---|---|

## Vehicle Emission Control

| | | | | |
|---|---|---|---|---|
| Exhaust Emission Control | Type (air injection engine modifications, other) | | N/A | Pulse Air |
| | Air Injection | Pump or Pulse | N/A | Dual Pulse |
| | | Driven by | N/A | Exhaust Flow |
| | | Air distribution (head, manifold, etc.) | N/A | Underbody Catalyst |
| | | Point of entry | N/A | Underbody Catalyst |
| | Exhaust Gas Recirculation | Type (controlled flow, open orifice, other) | Electronic Controlled Flow | |
| | | Exhaust source | Exhaust Manifold Collector | Exh. Header Sec. Junct. |
| | | Point of exhaust injection (spacer, carburetor, manifold, other) | Intake Manifold Plenum | |
| | Catalytic Converter | Type | TWC Converter | TWC/COC Conv. Pulse Air |
| | | Number of | One | |
| | | Location(s) | Closed Coupled @ Exh. Manifold | Underbody |
| | | Volume [L (in³)] | 1.48 (92.0) | 1.5 (93.0) |
| | | Substrate type | Monolithic Ceramic | |
| Crankcase Emission Control | Type (ventilates to atmosphere, induction system, other) | | Induction System | |
| | Energy source (manifold vacuum, carburetor, other) | | Manifold Vacuum (Closed to Atmosphere) | |
| | Discharges (to intake manifold, other) | | Intake Manifold | |
| | Air inlet (breather cap, other) | | Air Cleaner — Dirty Side | |
| Evaporative Emission Control | Vapor vented to (crankcase, canister, other) | Fuel tank | Canister | |
| | | Carburetor | N/A | |
| | Vapor storage provision | | Carbon Canister | |
| Electronic system | Closed loop (yes/no) | | Yes | |
| | Open loop (yes/no) | | Yes | |

## Engine — Exhaust System

| | | | |
|---|---|---|---|
| Type (single, single with cross-over, dual, other) | | Single | Tri-Y-Header Into Single System |
| Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)] | | One Reverse Flow | |
| Resonator no. & type | | N/A | |
| Exhaust pipe (a) | 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.)] | Stainless Steel | |
| Intermediate pipe (b) | o.d. & wall thickness | 51.0 x 1.37 (2.0 x .054) | |
| | Material & Mass [kg (weight lbs.)] | Stainless Steel | Aluminum-Coated Steel |
| Tail pipe (c) | o.d. & wall thickness | 44.5 x 1.37 (1.75 x .054) | |
| | Material & Mass [kg (weight lbs.)] | Stainless Steel | Aluminum-Coated Steel |

(a) Inlet Pipe
(b) Muffler Inlet Pipe
(c) Outlet Pipe

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) _____

| Engine Description/Carb. Engine Code | 1.9L CFI | 1.9L EFI |
|---|---|---|

### 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 3-Speed (Ford or Mazda) |
| Automatic overdrive (std., opt., n.a.) (mfr.) | N/A |

### Manual Transmission/Transaxle

| | | | Transfer Ratios: 3.52/2.61:1 | 3.73/2.73:1 |
|---|---|---|---|---|
| Number of forward speeds | | | Five (MTX III) (a) | |
| Transmission ratios | In first | (Final Drive) | 3.60 (12.67) | 3.60 (13.43) |
| | In second | (Final Drive) | 2.12 (7.47) | 2.12 (7.91) |
| | In third | (Final Drive) | 1.39 (4.91) | 1.39 (5.18) |
| | In fourth | (Final Drive) | 1.02 (3.59) | 1.02 (3.80) |
| | In fifth | (Final Drive) | 1.02 (2.66) | 1.02 (2.80) |
| | In overdrive | | — | |
| | In reverse | (Final Drive) | 3.62 (12.74) | 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 (b) (See Note) | |
| | SAE viscosity number | Summer | | |
| | | Winter | | |
| | | Extreme cold | | |

### 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.)] | | 3450 (776) |
| No. of clutch driven discs | | One |
| Clutch facing | Material | Woven Non-Asbestos, Valeo F-202 |
| | Manufacturer | Valeo |
| | Part number | E6ER-7550-EA |
| | Rivets/plate | 12 |
| | Rivet size | 4.1 x 5.4 (5/32 x 7/32) |
| | Outside & inside dia. | 215 (8.46) & 145 (5.71) |
| | Total eff. area [cm²(in.²)] | 396 (61.4) |
| | Thickness | 3.35 (0.13) |
| | 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 | Single 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) + Friction Mod. EST.M2C1180A (4.8% by Volume).

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) _____

| Engine Description/Carb. Engine Code | 1.9L CFI |
|---|---|

### 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 |
| | Ltr./No. designation | P R N D 2 1 |
| Gear ratios | 1st | 2.81 |
| | 2nd | 1.60 |
| | 3rd | 1.00 |
| | 4th | — |
| | Reverse | 2.03 |
| Max. upshift speed - drive range [km/h (mph)] | | 132 (82) |
| Max. kickdown speed - drive range [km/h (mph)] | | 123 (77) |
| Min. overdrive speed [km/h (mph)] | | N/A |
| Torque converter | Number of elements | Three |
| | Max. ratio at stall | 2.37 |
| | Type of cooling (air, liquid) | Liquid |
| | Nominal diameter | 2.35 (9.25) |
| Lubricant | Capacity [refill L (pt.)] | 7.6 (16.1) (Includes Oil Cooler Lines) |
| | Type Recommended | ESP-M2C166-H (Ford) or ESP-M2C138-CJ/ESP-M26166-H (Mazda) |
| Oil cooler (std., opt., NA, internal, external, air, liquid) | | Standard, External Oil to Engine Coolant |

### Axle or Front Wheel Drive Unit

| | | | |
|---|---|---|---|
| Type (front, rear) | | | Front Wheel Drive |
| Description | | | MTX III 5-Speed Manual<br>ATX 3-Speed 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 |
| Driving wheel bearing (type) | | | Tapered Roller — MTX III; Ball Type — ATX |
| Lubricant | Capacity [L (pt.)] | | 2.9 (6.1) — MTX III; 7.6 (16.1) — ATX |
| | Type recommended | | MTX III (a); ATX (b) See Notes Below |
| | SAE viscosity number | Summer | |
| | | Winter | |
| | | Extreme cold | |

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

| | | | | |
|---|---|---|---|---|
| Axle ratio (or overall top gear ratio) | | — | | |
| No. of teeth | Pinion | N/A | | |
| | Ring gear or gear | N/A | | |
| Ring gear o.d. | | N/A | | |
| Transaxle | Transfer gear ratio | 3.26:1 | 3.52/2.61:1 | 3.73/2.73:1 |
| | Final drive ratio | 3.26:1 | 3.59/2.66:1 | 3.80/2.80:1 |

(a) Automatic transmission fluid ESW-M2C33F (95.2% by Volume) plus friction modifier EST-M2C118-A (4.8% by Volume)
(b) The 5-speed is a unique arrangement utilizing dual transfer ratios, a higher numerical ratio for 4th and Reverse, and a lower numerical ratio for 5th.

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) _____

**Engine Description/Carb.**
**Engine Code**

ALL MODELS

### Axle Shafts — Front Wheel Drive

| | | | |
|---|---|---|---|
| Manufacturer and 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 transmission 5-Speed | Left | 26.0 x 322.0 (1.02 x 12.68) |
| | | Right | 26.0 x 640.0 (1.02 x 25.19) |
| | Automatic transmission 3-Spd. (Opt.) | Left | 26.0 x 305.0 (1.02 x 12.01) |
| | | Right | 26.0 x 640.0 (1.02 x 25.19) |
| | 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-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 |
| | Bearing — 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 EXP
Model Year 1987 Issued 4/86 Revised (•) _____

| Body Type And/Or Engine Displacement | BASE (LUXURY COUPE) | SPORT (SPORT COUPE) |
|---|---|---|

### Suspension — General

| | | |
|---|---|---|
| Car leveling | Std./opt./n.a. | N/A |
| | Type (air, hyd., etc.) | N/A |
| | Manual/auto. controlled | N/A |
| Provision for brake dip control | | N/A |
| Provision for accl. squat control | | N/A |
| Provisions for car jacking | | Notched Rocker Panel Positions |
| Shock absorber (front & rear) | Type | Strut Type — Front and Rear, Direct Double Acting Hydraulic |
| | 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 with Strut-Mounted Coil Spring; Stabilizer Bar — Track Control Arm | |
| Travel | Full jounce | 71.0 (2.80) | 68.6 (2.70) |
| | Full rebound | 93.0 (3.66) | 95.4 (3.76) |
| Spring | Type (coil, leaf, other) & material | Coil, SAE-5160-H Steel | |
| | Insulators (type & material) | Upper to Match Spring & Rubber | |
| | Size (coil design height & i.d., bar length x dia.) | (Coil) 235 (9.25) & 102 (4.0), 2876 (113.2) x 12.8 (0.50) | (Coil) 215.6 (8.49) & 102 (4.0), 2759 (108.6) x 13.0 (0.51) |
| | Spring rate [N/mm (lb./in.)] | 28.0 (160) | 31.5 (180) |
| | Rate at wheel [N/mm (lb./in.)] | 23.1 (131.9) | 26 (148) |
| Stabilizer | Type (link, linkless, frameless) | Linkless, Dual Function Strut/Stabilizer | |
| | Material & bar diameter | Modified SAE 1090 & 22.0 (.87) | 24.0 (.94) |

### Suspension — Rear

| | | | | |
|---|---|---|---|---|
| Type and description | | | Modified MacPherson Strut Type: Independent Non-Driven w/Coil Spring on Lower Arm — Tie Bar — Control Arm — Forged Spindle | |
| Travel | Full jounce | | 98.7 (3.89) | 92.1 (3.63) |
| | Full rebound | | 100.3 (3.95) | 106.9 (4.21) |
| Spring | Type (coil, leaf, other) & material | | Coil & SAE-5160-H Steel | |
| | Size (length x width, coil design height & i.d., bar length & dia.) | | 160.3 (6.31) x 84 (3.31) 2377 (93.6) & 12.4 (0.49) | 156.0 (6.14) x 84 (3.31) 2185 (86.0) & 10.18/12.87 (.40/.50) |
| | Spring rate [N/mm (lb./in.)] | | 41.2 (235) | Variable 38.5-59.7 (220-341) |
| | Rate at wheel [N/mm (lb./in.)] | | 17.0 (97) | Variable 17.6-26.4 (101-151) |
| | Insulators (type & material) | | Upper to Match Spring & Rubber | |
| | If leaf | No. of leaves | N/A | |
| | | Shackle (comp. or tens.) | N/A | |
| Stabilizer | Type (link, linkless, frameless) | | N/A | Combined Eye & Bayonet Design |
| | Material & bar diameter | | N/A | SAE-5160-H Stl-Epoxy CTD&112 (0.47) |
| Track bar (type) | | | Tie Bar, Double Bayonet Design; Lwr. Control Arm | |

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

Car Line EXP
Model Year 1986 Issued 4/86 Revised (•) _____

**Body Type And/Or Engine Displacement**

ALL MODELS

## Brakes — Service

| | | | |
|---|---|---|---|
| Description | | | Four Wheel Hydraulic Actuated System |
| Manufacturer and brake type (std., opt., n.a.) | Front (disc or drum) | | Disc |
| | Rear (disc or drum) | | Drum |
| Self-adjusting (std., opt., n.a.) | | | Standard |
| Special valving | Type (proportion, delay, metering, other) | | 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 |
| Vacuum reservoir (volume in.³) | | | N/A |
| Vacuum pump-type (elec, gear driven, belt driven, if other so state) | | | N/A |
| Anti-lock device type (std., opt., n.a.) (F/R) | | | N/A |
| Effective area [cm²(in.²)]* (F/R) | | | 163.2 (25.3)/266.4 (41.3) |
| Gross lining area [cm²(in.²)]**(F/R) | | | 179 (27.7)/281.8 (43.7) |
| Swept area [cm²(in.²)]***(F/R) | | | 968 (150)/433.7 (67.2) |
| 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 | 203 (8.0) |
| | Type and material | F/R | Composite Cast Iron |
| Wheel cylinder bore | | | 60 (2.36) Front/20.6 (0.81) Rear |
| Master cylinder | Bore/stroke | F/R | 19.7 (0.78)/39.7 (1.56) |
| Pedal arc ratio | | | 2.8:1 |
| 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 lining | Front wheel | Bonded or riveted (rivets/seg.) | Riveted 5/Seg. |
| | | Rivet size | 4.7 (0.185) |
| | | Manufacturer | Thiokol |
| | | Lining code***** | TP-1353M-FF |
| | | Material | Molded Organic |
| | | **** Primary or out-board | 122 x 39 x 12.2 (4.8 x 1.54 x 0.48) |
| | | Size Secondary or in-board | 122 x 39 x 12.2 (4.8 x 1.54 x 0.48) |
| | | Shoe thickness (no lining) | 5.0 (0.197) Nominal |
| | Rear wheel | Bonded or riveted (rivets/seg.) | Bonded |
| | | Manufacturer | Bendix |
| | | Lining Code***** | BX-MO-FF 3152F |
| | | 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 (0.074) 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 EXP
Model Year 1987 Issued 4/86 Revised (•) 6/86

| Body Type And/Or Engine Displacement | BASE MODEL (LUXURY COUPE) | SPORT MODEL (SPORT COUPE) |
|---|---|---|

### Tires And Wheels (Standard)

| | | | | |
|---|---|---|---|---|
| Tires | Size (load range, ply) | | P185/70R14 | 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) | | 863 | 861 |
| Wheels | Type & material | | Disc — Styled Stamped Steel | Cast Aluminum — 8 Spoke |
| | Rim (size & flange type) | | 14 x 5.5 JJ | 15 x 6.0 JJ |
| | Wheel offset | | 41.4 (1.63) | 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, 240 kPa (35 psi), Wheel 330 x 119.3 (13 x 4.5) 41.4 (1.63) Offset Temporal Spare | |
| | Storage position & location (describe) | | Flat Position, Deep Well in Cargo Floor | |

### (•) Tires And Wheels (Optional) (NOT OFFERED)

| | | |
|---|---|---|
| Size (load range, ply) | | |
| Type (bias, radial, etc.) | | |
| Wheel (type & material) | Cast Aluminum — 7 Spoke | N/A |
| Rim (size, flange type and offset) | 14 x 6.0 JJ, Offset 39.4 (1.55) | |
| 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 EXP
Model Year 1987 Issued 4/86 Revised (●) 6/86

**Body Type And/Or Engine Displacement**

ALL MODELS

## Steering

| | | | | |
|---|---|---|---|---|
| Manual (std., opt., n.a.) | | | | Standard |
| Power (std., opt., n.a.) | | | | Optional, Standard on Sport Coupe |
| Adjustable steering wheel/column (tilt, telescope, other) | | Type | | Tilt 5 Position |
| | | Manufacturer | | Adj. Steering Wheel — Various; Column — Ford |
| | | (Std., opt., n.a.) | | Optional |
| Wheel diameter** (W9) SAE J1100 | | 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) (Exc. 11.4 (37.25) w/Sport Coupe) |
| | Inside rear | Wall to wall (l. & r.) | | |
| | | Curb to curb (l. & r.) | | |
| Scrub Radius* | | | | |
| Manual | Gear | Type | | Rack and Pinion |
| | | Manufacturer | | TRW |
| | | 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 |
| | Manufacturer | | | Ford Gear — Ford Pump, Fluid ESP-M2C138CJ |
| | Gear | Type | | Rack and Pinion (Constant Ratio) |
| | | Ratios | (***) | 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 |
| | 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/hub | 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 |

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

**See page 21.

(***) Rack Speed

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (●)

| Body Type And/Or Engine Displacement | ALL MODELS |
|---|---|

### Wheel Alignment

| | | | |
|---|---|---|---|
| Front wheel at curb mass (wt.) | Service checking | Caster (deg.) | +2.37°, Min. +1.62°/Max. +3.12° (a) |
| | | Camber (deg.) | Lft +1.16°, Min +0.41°/Max 1.91°; Rgt +0.72°, Min −.03°/Max +1.47°(b) |
| | | Toe-in [outside track-mm (in.)] | −2.54, Min. −5.72/Max. +0.63 (−0.10, Min. −0.22/Max. +0.02) |
| | Service reset* | Caster | Factory Set and Cannot be Adjusted |
| | | Camber | Factory Set and Cannot be Adjusted |
| | | Toe-in | −2.54, Min. −5.72/Max. +0.63 (−0.10, Min. −0.22/Max. +0.02) |
| | Periodic M.V. inspection | Caster | +2.37°, Min. +1.62°/Max. +3.12° (a) |
| | | Camber | Lft +1.16°, Min +0.41°/Max 1.91°; Rgt +0.72°, Min −.03°/Max +1.47°(b) |
| | | Toe-in | −2.54, Min. −5.72/Max. +0.63 (−0.10, Min. −0.22/Max. +0.02) |
| Rear wheel at curb mass (wt.) | Service checking | Camber (deg.) | −0.40°, Min. −1.25°/Max. 0.45° (c) |
| | | Toe-in [outside track-mm (in.)] | +4.57, Min. +0.0/Max. 9.14 (+0.18, Min. +0.00/Max. 0.36) (d) |
| | Service reset* | Camber | Factory Set and Cannot be Adjusted |
| | | Toe-in | +4.57, Min. +0.0/Max. 9.14 (+0.18, Min. +0.00/Max. 0.36) (d) |
| | Periodic M.V. inspection | Camber | −0.40°, Min. −1.25°/Max. +0.45° (c) |
| | | Toe-in | +4.57, Min. +0.0/Max. 9.14 (+0.18, Min. +0.00/Max. 0.36) (d) |

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

### Electrical — Instruments and Equipment

| | | |
|---|---|---|
| Speed-odometer | Type (analog, digital, std., opt.) | Pointer |
| | Trip odometer (std., opt., n.a.) | Standard |
| EGR maintenance indicator | | None |
| Charge indicator | Type | None |
| | Warning device (light, audible) | Light |
| Temperature indicator | Type | Temperature Gauge |
| | Warning device (light, audible) | None |
| Oil pressure indicator | Type | None |
| | Warning device (light, audible) | Light |
| Fuel indicator | Type | Gauge (45°) Indicator |
| | Warning device (light, audible) | Lo-Fuel Warning Light (Not Located in Cluster) (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 [cm²(in.²)] | 4792 (742.7) |
| Wind-shield washer | Type (standard) | Electric Pump (Impeller Type) |
| | Type (optional) | None |
| | Fluid level indicator (light, audible) | Optional (Warning Light) |
| Rear window wiper, wiper/washer (std., opt., n.a.) | | Optional |
| Horn | Type | Air Electric |
| | Number used | Two — One Hi-Pitch, One Lo-Pitch |
| Other | | |

(a) Max. Side-to-Side Difference not to Exceed ±0.75°
(b) Max. Side to Side (Left/Right) to be 0.44°, Min. −0.31° to Max. +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. −0.06/Max. +0.24)

# MVMA Specifications Form
# Passenger Car

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

**SUPPLEMENTAL PAGE**

Car Line EXP

Model Year 1987 Issued 4/86 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
- Cigar Lighter
- Fog Lamps (Sport Coupe Only)
- Up-Shift Light w/Manual Transmission Only

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) ____

| Engine Description/Carb. Engine Code | 1.9L CFI | 1.9L EFI |
|---|---|---|

## Electrical — Supply System

| | | | | |
|---|---|---|---|---|
| Battery | Manufacturer | Johnson Controls Inc. or G&B | | |
| | Model, std., (opt.) | Standard | Optional | Standard |
| | Voltage | 12 Volt | | |
| | Amps at 0°F cold crank | 460 | 540 | 540 |
| | Minutes-reserve capacity | 82 | 100 | 100 |
| | Amp/hrs. - 20 hr. rate | 48 | 58 | 58 |
| | Location | Low Silhouette Mtd. in LH Apron Forward of Strut Tower | | |
| Alternator | Manufacturer | Ford (EED Rawsonville) | | |
| | Rating | E7EF-BA (60 Amp) | | |
| | Ratio (alt. crank/rev.) | 2.33:1 | | |
| | Optional (type & rating) | E7EF-AA (65 Amp) | | |
| Regulator | Type | Electronic Integral w/Alternator | | |

## Electrical — Starting System

| | | |
|---|---|---|
| Start.motor | Current drain at 0°F | 270-300 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 | | AGSF-34C AGSF-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. Ground Strap Between Exhaust Pipe & Steering Bracket. (Opt.) Interval Windshield Wipers — Jumped. |

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

Car Line EXP
Model Year 1987 Issued 4/86 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 front-rear | Front — 7029 Aluminum (Anodized)<br>Front/Rear — 5 MPH Bumper — Ford Requirements<br>Rear — HSLA 960 Steel or 7029 Aluminum 10.0 |
| Anti-corrosion treatment | • Major Exterior & Underbody Sheet Metal Components and Panels Pre-Coated (Galvanized) Steel<br>• Body Cathodically Electrocoat Primed<br>• Urethane Chip-Resistant Primer or Plastic Cladding on Lower Body Sides<br>• Grille: Polyester |

## 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.) | | Electrical |
| Station Wagon | | | N/A |
| | | | |
| | | | |
| | | | |
| Vent window control (crank, friction, pivot, power | | Front | Manual Latch (Optional) |
| | | Rear | N/A |
| Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.) | | Front | Stamped Frame — Coil Springs & Flexolator — Foam Pad |
| | | Rear | N/A |
| | | 3rd seat | N/A |
| Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.) | | Front | Stamped Frame — Foam Pad |
| | | Rear | N/A |
| | | 3rd seat | N/A |
| | | | |

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

Car Line EXP
Model Year 1987 Issued 4/86 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 |

### Frame

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

| Glass | SAE Ref. No. | |
|---|---|---|
| Windshield glass exposed surface area [$cm^2$($in.^2$)] | S1 | 6844 (1061) |
| Side glass exposed surface area [$cm^2$($in.^2$)]-total 2-sides | S2 | Door: 2458 (381)<br>Quarter Glass: 576 (89) |
| Backlight glass exposed surface area [$cm^2$($in.^2$)] | S3 | 12243 (1897) |
| Total glass exposed surface area [$cm^2$($in.^2$)] | S4 | 25155 (3899) |
| Windshield glass (type) | | Laminated |
| Side glass (type) | | Tempered — Safety |
| Backlight glass (type) | | Tempered |

*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 1987 Issued 4/86 Revised (●)

| Body Type | ALL MODELS |
|---|---|

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

| | | |
|---|---|---|
| Air conditioning (manual, auto. temp control) | | Optional, Manual Temperature Control |
| Clock (digital, analog) | | Standard, Digital (Located Overhead Console) |
| Compass/thermometer | | N/A |
| Console (floor, overhead) | | Optional — Floor (Std. w/Sport Coupe), Standard — Overhead |
| Defroster, elec. backlight | | Optional (Mandatory in New York State) |
| Electronic | Diagnostic monitor (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 | Standard, Warning |
| | Graphic Display Warning | Optional, Indicator (Standard w/Sport Coupe) |
| 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/Courtesy w/Overhead Console |
| | Door lock, ignition | N/A |
| | Engine compartment | Standard |
| | Fog | Standard w/Sport Coupe Only |
| | Glove compartment | Standard |
| | Trunk Cargo Compartment | Standard |
| | Other | |
| | | |
| Mirrors | Day/night (auto. man.) | Standard, Manual |
| | L.H. (remote, power, heated) | Standard, Remote (Std., Power w/Sport Coupe) |
| | R.H. (convex, remote, power, heated) | Optional, Power (Std. w/Sport Coupe) |
| | 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, Deck Lid |
| | Seat (2-4-6 way)<br>heated (driver, pass, other)<br>lumbar, hip, thigh support (power, manual)<br>reclining (driver, pass)<br>memory (1-2 preset, recline) | 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, stero, tape, CB | (a) |
| | Speaker (number, location) Premium sound | Optional, Amp. w/Front Door Speakers and Rear Speakers |
| Roof open air/fixed (flip-up, sliding, "T") | | Optional, Flip-Up/Open Air |
| Speed control device | | Optional |
| Speed warning device (light, buzzer, etc.) | | N/A |
| Tachometer (rpm) | | Standard (7000) |
| Telephone system - mobile | | N/A |
| Theft protection-type | | N/A |

(a) AM/FM Stereo, Standard; Optional Radios: AM/FM Stereo w/Cassette

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) 10/86

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

| Body Type | SAE Ref. No. | LUXURY COUPE | SPORT COUPE |
|---|---|---|---|
| **Width** | | | |
| (•) Tread (front) | W101 | 1390 (54.7) | 1396 (54.9) |
| (•) Tread (rear) | W102 | 1422 (56.0) | 1429 (56.1) |
| 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 | N/A | |
| Front fender overall width | W106 | N/A | |
| Rear fender overall width | W107 | N/A | |
| Tumble-home (deg.) | W122 | 18.8° | |
| **Length** | | | |
| Wheelbase | L101 | 2393 (94.2) | |
| Vehicle length | L103 | 4278 (168.4) | |
| Overhang (front) | L104 | 925 (36.4) | |
| 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) | |
| Front end length at centerline | L126 | 1137 (44.8) | |
| Rear end length at centerline | L129 | 570 (22.4) | |
| **Height*** | | | |
| Passenger distribution (front/rear) | PD1,2,3 | 2/0 | |
| Trunk/cargo load | | 0 | |
| Vehicle height | H101 | 1293 (50.9) | 1357 (53.4) |
| Cowl point to ground | H114 | 927 (36.5) | |
| Deck point to ground | H138 | 951 (37.4) | |
| 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 | N/A | |
| Windshield slope angle | H122 | 59° | |
| Backlight slope angle | H121 | 61.2° | |
| **Ground Clearance*** | | | |
| Front bumper to ground | H102 | 390 (15.3) | 384 (15.1) |
| Rear bumper to ground | H104 | 356 (14.0) | 351 (13.8) |
| Bumper to ground [front at curb mass (wt.)] | H103 | 392 (15.4) | 393 (15.5) |
| Bumper to ground [rear at curb mass (wt.)] | H105 | 386 (15.2) | 384 (15.1) |
| Angle of approach (degrees) | H106 | 15.7° | 15.4° |
| Angle of departure (degrees) | H107 | 17.5° | 17.2° |
| Ramp breakover angle (degrees) | H147 | 15.2° | |
| Axle differential to grd. (front/rear) | H153 | N/A | |
| Min. running ground clearance | H156 | 146 (5.7) | 143 (5.6) |
| Location of min. run. grd. clearance | | Exhaust Pipe @ 4175 Longitudinal Coordinate | |

*All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified.
Manufacturer's Design Load Weight is defined with indicated passenger distribution and truck/cargo load.
All linear dimensions are in millimeters (inches) unless otherwise noted.

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (●) _____

| Body Type | SAE Ref. No. | LUXURY COUPE | SPORT COUPE |
|---|---|---|---|
| **Front Compartment** | | | |
| SgRP front, "X" coordinate | L31 | 3107 (43.6) | |
| Effective head room | H61 | 929 (36.6) | |
| Max. eff. leg room (accelerator) | L34 | 1058 (41.7) | |
| SgRP to heel point | H30 | 212 (8.3) | |
| SgRP to heel point | L53 | 861 (33.9) | |
| Back angle | L40 | 24° | |
| Hip angle | L42 | 92° | |
| Knee angle | L44 | 123° | |
| Foot angle | L46 | 87° | |
| Design H-point front travel | L17 | 180 (7.1) | |
| Normal driving & riding seat track trvl. | L23 | 166 (6.5) | |
| Shoulder room | W3 | 1302 (51.3) | |
| Hip room | W5 | 1274 (50.2) | |
| Upper body opening to ground | H50 | 1195 (47.1) | 1242 (48.9) |
| Steering wheel maximum diameter* | W9 | 383 (15.1) | |
| Steering wheel angle | H18 | 23.3° | |
| Accel. heel pt. to steer. whl. center | L11 | 500 (19.7) | |
| Accel. heel pt. to steer. whl. center | H17 | 601 (23.7) | |
| Steering wheel to C/L of thigh | H13 | 89 (3.5) | |
| Steering wheel torso clearance | L7 | 360 (14.2) | |
| Headlining to roof panel (front) | H37 | 22 (0.9) | |
| Undepressed floor covering thickness | H67 | 20 (0.8) | |
| **Rear Compartment** | | (NOT APPLICABLE) | |
| SgRP point couple distance | L50 | | |
| Effective head room | H63 | | |
| Min. effective leg room | L51 | | |
| SgRP (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 | | |
| Hip angle | L43 | | |
| Knee angle | L45 | | |
| Foot angle | L47 | | |
| Headlining to roof panel (second) | L38 | | |
| Depressed floor covering thickness | H73 | | |
| **Luggage Compartment** | | | |
| Usable luggage capacity [L (cu.ft.)] | V1 | N/A | |
| Liftover height | H195 | 798 (31.4) | 801 (31.5) |
| **Interior Volumes (EPA Classification)** | | | |
| Veh. class (subcompact, compact, etc.) | | Two Seater | |
| Interior volume index (cu.ft.) | | N/A | |
| Trunk/cargo index (cu.ft.) | | N/A | |

*See page 14.

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

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) _____

| Body Type | SAE Ref. No. | ALL MODELS |
|---|---|---|

### Station Wagon—Third Seat (NOT APPLICABLE)

| | | |
|---|---|---|
| SgRP couple distance | L85 | |
| Shoulder room | W85 | |
| Hip room | W86 | |
| Effective leg room | L86 | |
| Effective head room | H86 | |
| SgRP 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 (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 seatback to load floor height | H197 | |
| Cargo volume index [$m^3(ft.^3)$] | V2 | |
| Hidden cargo volume [$m^3(ft.^3)$] | V4 | |
| Cargo volume index-rear of 2-seat | V10 | |

### Hatchback—Cargo Space

| | | |
|---|---|---|
| Cargo length at front seatback height | L208 | 609 (24) |
| Cargo length at floor (front) | L209 | 1593 (62.7) |
| Cargo length at second seatback height | L210 | N/A |
| Cargo length at floor (second) | L211 | N/A |
| Front seatback to load floor height | H197 | 619 (24.4) |
| Second seatback to load floor height | H198 | N/A |
| Cargo volume index [$m^3(ft.^3)$] | V3 | .89 (31.5) |
| Hidden cargo volume [$m^3(ft.^3)$] | V4 | N/A |
| Cargo volume index-rear of 2-seat | V11 | N/A |

### Aerodynamics*

| | | |
|---|---|---|
| Wheel lip to ground, front | | 638 (25.1) |
| Wheel lip to ground, rear | | 606 (23.9) |
| Frontal area [$m^2(ft.^2)$] | | 1.77 (19.1) |
| Drag coefficient (Cd) | | |

*EPA Loaded Vehicle Weight, Loading Conditions
All linear dimensions are in millimeters (inches) unless otherwise noted.

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) ____

**Body Type** ALL MODELS

### Vehicle Fiducial Marks

| Fiducial Mark Number* | Define Coordinate Location |
|---|---|
| 1 & 2<br>Front | The rear vertical edge of the master control notch on the under side of the front door rocker panels locates the "X" coordinate relative to body grid and is located at the 2264 (89) line.<br><br>(Front Location) (Rear Location)<br>X = 2535 (99.8) X = 3300 (129.9)<br>Y = 721 (28.4) Y = 721 (28.4)<br>Z = 486 (19.1) Z = 479 (18.9) |
| 3 & 4<br>Rear | 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 and 2. |

| Fiducial Mark Number | | |
|---|---|---|
| Front | W21* | 721 (28.4) |
| | L54* | 2535 (99.8) |
| | H81* | 486 (19.1) |
| | H161* | — |
| | H163* | — |

| | | |
|---|---|---|
| Rear | W22* | 721 (28.4) |
| | L55* | 3300 (129.9) |
| | H82* | 479 (18.9) |
| | 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 EXP
Model Year 1987 Issued 4/86 Revised (●) _____

| Body Type | ALL MODELS |
|---|---|

### Lamps and Headlamp Shape*

| | | | |
|---|---|---|---|
| Height above ground to center of bulb or marker | Headlamp (SAE - H127) | Highest** | 643.0 (25.3) |
| | | Lowest | N/A |
| | Taillamp (SAE - H128) | Highest** | 727.5 (28.6) |
| | | Lowest | 727.5 (28.6) |
| | Sidemarker | Front | 489.0 (19.3) |
| | | Rear | 700 (27.6) |
| Distance from C/L of car to center of bulb | Headlamp | Inside | — |
| | | Outside** | 551.5 (21.7) |
| | Taillamp | Inside | 393.5 (15.5) |
| | | Outside** | 650.5 (25.6) |
| | Directional | Front | 545.8 (21.5) |
| | | Rear | 521.5 (20.5) Inner Lamp<br>650.5 (25.6) Outer Lamp |
| | | | |
| Halogen headlamp (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 | | N/A |
| | Hi beam | | N/A |
| | Replaceable | | N/A |
| | Shape | | N/A |
| | Type | | N/A |

*Measured at curb mass (weight).
**If single lamps are used enter here.
All linear dimensions are in millimeters (inches) unless otherwise noted.

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (●)

| Model | Vehicle Mass (weight) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | CURB MASS, kg. (weight, lb.)* | | | % PASS. MASS DISTRIBUTION | | | | SHIPPING MASS. kg. (weight, lb.)** |
| | | | | Pass. In Front | | Pass. In Rear | | |
| | Front | Rear | Total | Front | Rear | Front | Rear | |
| 1.9L CFI Engine | | | | | | | | |
| w/5-Speed Manual | | | | | | | | |
| 2-Door Hatchback | 635 | 405 | 1040 | 44 | 56 | 13 | 87 | 995 |
| (Luxury Coupe) | (1399) | (892) | (2291) | | | | | (2194) |
| | | | | | | | | |
| 1.9L EFI Engine | | | | | | | | |
| w/5-Speed Manual | | | | | | | | |
| 2-Door Hatchback | 671 | 412 | 1083 | 44 | 56 | 13 | 87 | 1039 |
| (Sport Coupe) | (1480) | (908) | (2388) | | | | | (2290) |

*Reference — SAE J1100 Motor vehicle dimensions, curb weight definition.
**Shipping mass (weight) definition — Less Fuel and Engine Coolant

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (•) _____

## Optional Equipment Differential Mass (weight)*

| Equipment | MASS, kg. (weight, lb.) | | | Remarks |
|---|---|---|---|---|
| | Front | Rear | Total | |
| Transaxle: | | | | |
| | | | | |
| 3-Speed Automatic (ATX) | 22.2 | −1.4 | 20.8 | |
| | (49) | (−3) | (46) | |
| | | | | |
| Miscellaneous Options: | | | | |
| Air Conditioning | | | | |
| w/Manual Temp. Control | 20.0 | 0 | 20.0 | |
| Base (Luxury Coupe) | (44) | (0) | (44) | |
| | | | | |
| w/Manual Temp. Control | 21.3 | 0 | 21.3 | |
| Sport (Sport Coupe) | (47) | (0) | (47) | |
| | | | | |
| Battery, Heavy Duty | 0.5 | 0 | 0.5 | |
| | (1) | (0) | (1) | |
| | | | | |
| Console | 1.4 | 0.9 | 2.3 | |
| | (3) | (2) | (5) | |
| | | | | |
| Defroster, Rear Window | 0.5 | 0 | 0.5 | |
| | (1) | (0) | (1) | |
| | | | | |
| Heater, Engine | 0.5 | 0 | 0.5 | |
| Block Immersion | (1) | (0) | (1) | |
| | | | | |
| Mirror, LH Remote | 0.5 | 0.5 | 1.0 | |
| Control — Electric | (1) | (1) | (2) | |
| | | | | |
| Mirror, RH Remote | 0.5 | 0.5 | 1.0 | |
| Control — Electric | (1) | (1) | (2) | |
| | | | | |
| Radio Systems: | | | | |
| Delete — Std. Radio | −2.3 | −2.3 | −4.6 | |
| | (−5) | (−5) | (−10) | |
| | | | | |
| Radio, AM/FM Stereo | 0.5 | 0 | 0.5 | |
| w/Cassette | (1) | (0) | (1) | |
| | | | | |
| Sound System, Premium | 1.4 | 0.9 | 2.3 | |
| | (3) | (2) | (5) | |
| | | | | |
| Power Steering | 7.7 | 0 | 7.7 | |
| | (17) | (0) | (17) | |
| | | | | |
| Roof, Flip-Up Open Air | 6.4 | 2.7 | 9.1 | |
| | (14) | (6) | (20) | |
| | | | | |
| | | | | |

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

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

Car Line EXP
Model Year 1987 Issued 4/86 Revised (●) _____

| Optional Equipment Differential Mass (weight)* | | | | |
|---|---|---|---|---|
| Equipment | MASS, kg. (weight, lb.) | | | Remarks |
| | Front | Rear | Total | |
| Miscellaneous Options: (Cont'd) | | | | |
| | | | | |
| Steering Wheel, Tilt | 1.3 | 0.5 | 1.8 | |
| | (3) | (1) | (4) | |
| | | | | |
| Speed Control | 1.3 | 0.5 | 1.8 | |
| | (3) | (1) | (4) | |
| | | | | |
| Wipers, Windshield | 0.5 | 0 | 0.5 | |
| Interval | (1) | (0) | (1) | |

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