# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

## Passenger Car

# 1986

| | | | |
|---|---|---|---|
| Manufacturer | Pontiac Motor Division<br>General Motors Corporation | Car Line | FIREBIRD |
| Mailing Address | Chevrolet-Pontiac-Canada Group<br>Engineering Center<br>General Motors Corporation<br>30003 Van Dyke<br>Warren, MI 48090-9060 | Issued | NOVEMBER, 1985 |
| | | 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.

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)**

## Table of Contents



**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 ~~FIREBIRD~~

Model Year ~~1986~~ Issued ~~10-85~~ Revised (•) _____

## 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) |
|---|---|---|---|---|
| REAR WHEEL DRIVE | | | | |
| FIREBIRD HATCHBACK COUPE | | | | |
| FIREBIRD | | 2FS87 | 4 (2/2) | 45.36 (100.0) |
| FIREBIRD TRANS AM | | 2FW87 | 4 (2/2) | 45.36 (100.0) |
| FIREBIRD SE | | 2FX87 | 4 (2/2) | 45.36 (100.0) |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD

Model Year 1986 Issued 10-85 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 AVAILABILITY | ENGINE | | | | | Exhaust S/D | TRANSMISSION TRANSAXLE | AXLE RATIO (std. first) |
|---|---|---|---|---|---|---|---|---|
| | Displ. Liters ($in^3$) | Carb. (Barrels, FI, etc.) | Compr. Ratio | SAE Net at RPM: kW (bhp) | SAE Net at RPM: Torque N•m (lb. ft.) | | | |
| STANDARD<br>FIREBIRD | 2.5L<br>(151)<br>LW<br>LQ9 | EFI | 9.0:1 | (88 @ 4400) | (132 @ 2800) | S | 5M | 3.73/3.70 |
| STANDARD<br>FIREBIRD SE | 2.8L<br>(173)<br>V6<br>LB8 | MPFI | 8.9:1 | (135 @ 5100) | (165 @ 3600) | S | 5M<br>4A-700-R4 (OPTIONAL) | 3.42/3.45 (a)<br>3.42/3.45 (a) |
| OPTIONAL<br>FIREBIRD<br>STANDARD<br>FIREBIRD TRANS AM | 5.0L<br>(305)<br>V8<br>LG4 | 4BBL | 9.5:1 | (150 @ 420) | (235 @ 2000) | S | 5M<br>4A-700-R4 (OPTIONAL) | 3.27<br>3.08 |
| OPTIONAL<br>FIREBIRD,<br>FIREBIRD SE<br>OPTIONAL<br>FIREBIRD TRANS AM | 5.0L<br>(305)<br>V8<br>L69 | 4BBL | 9.5:1 | (190 @ 4800) | (240 @ 3200) | D | 5M | 3.70 |
| OPTIONAL<br>FIREBIRD<br>TRANS AM | 5.0L<br>(305)<br>V8<br>LB9 | TPFI | 9.5:1 | (210 @ 4400) | (270 @ 3200) | D | 4A-700-R4 | 3.27/3.45 |

(a) LIMITED SLIP ONLY

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

| Engine Description/Carb. Engine Code | 2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO L09 | 2.8L V6 (173 CID) (2.8 MULTI-PORT FI) RPO LB8 |
|---|---|---|

## ENGINE – GENERAL

| | | | |
|---|---|---|---|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.) | | IN LINE FRONT LONGITUDINAL | 60° V |
| Manufacturer | | PONTIAC | CHEVROLET |
| No. of cylinders | | 4 | 6 |
| Bore | | 101.6 (4.0) | 89.0 (3.50) |
| Stroke | | 76.2 (3.0) | 76.0 (2.99) |
| Bore spacing (C/L to C/L) | | 111.8 (4.40) | |
| Cylinder block material & mass kg (lbs.) | | CAST IRON 38.648 (85.2) | CAST IRON 41.731 (91.9) |
| Cylinder block deck height | | 236.1 (9.3) | 224 (8.82) |
| Deck clearance (minimum) (above or below block) | | 0.63 (.025) BELOW | 0.62 (.024) BELOW |
| Cylinder head material & mass kg (lbs.) | | CAST IRON 19.140 (42.2) | CAST IRON 11.227 (24.8) |
| Cylinder head volume ($cm^3$) | | 45.62 (2.78) | - - |
| Head gasket thickness (compressed) | | .97 (.03819) | .838 (.033) |
| Minimum combustion chamber total volume ($cm^3$) | | 70.82 (4.32) | 63.41734 (3.86927)@ |
| Cyl. no. system (front to rear)* | L. Bank | 1-2-3-4 | 1-3-5 |
| | R. Bank | - - | 2-4-6 |
| Firing order | | 1-3-4-2 | 1-2-3-4-5-6 |
| Intake manifold material & mass [kg (weight, lbs.)] | | CAST ALUM./2.774(6.1) | CAST ALUM./2.370(10-8)CTR,3.810(17.3)LWR |
| Exhaust manifold material & mass [kg (weight, lbs.)] | | STAINLESS STEEL/1.098(2.4) | CAST IRON/3.360(7.4)RH, 2.425 (5.3) LH. |
| Recommended fuel (leaded, unleaded, diesel) | | UNLEADED | |
| Fuel antiknock index $\frac{(R+M)}{2}$ | | 87 | |
| Total dressed engine mass (wt) dry** | | 160.3(353.5)AUTO, 174.2(384.0)MAN | 188.7(415.9)AUTO, 201.9 (445.0) MAN |

## Engine – Pistons

| | | |
|---|---|---|
| Material & mass, g (weight, oz.) - piston only | CAST ALUMINUM ALLOY .600 (21.2) | CAST ALUMINUM ALLOY .467 (16.5) |

## Engine – Camshaft

| | | | |
|---|---|---|---|
| Location | | RIGHT SIDE OF BLOCK | IN BLOCK ABOVE CRANKSHAFT |
| Material & mass kg (weight, lbs.) | | CAST IRON/3.411 (7.52) | CAST IRON/3.098 (6.83) |
| Drive type | Chain / belt | GEAR | CHAIN |
| | Width / pitch | - - | |

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

** Dressed engine mass (weight) includes the following:
@-PISTON AT IDC, SPARK PLUG AND VALVES IN PLACE, AND CYLINDER HEAD TORQUED TO SPECIFICATIONS.

** ALL THOSE ITEMS NECESSARY TO MAKE ENGINE A COMPLETE READY-TO-RUN UNIT.

# MVMA Specifications Form
# Passenger Car

## METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| Engine Description/Carb. Engine Code | 5.0L V8 (305 CID) 4-BBL. CARBUERTOR RPO LG4 | 5.0L V8 (305 CID) 4-BBL. CARBUERTOR RPO L69 HO |
|---|---|---|

## ENGINE – GENERAL

| | | | |
|---|---|---|---|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.) | | 90° FRONT LONGITUDINAL | |
| Manufacturer | | CHEVROLET | |
| No. of cylinders | | 8 | |
| Bore | | 94.89 (3.74) | |
| Stroke | | 88.39 (3.48) | |
| Bore spacing (C/L to C/L) | | 111.8 (4.40) | |
| Cylinder block material & mass kg (lbs.) | | CAST IRON 68.674 (151.4) | |
| Cylinder block deck height | | 229.2 (9.025) | |
| Deck clearance (minimum) (above or below block) | | .635 (.025) BELOW | |
| Cylinder head material & mass kg (lbs.) | | CAST IRON 17.917 (39.5) | |
| Cylinder head volume ($cm^3$) | | --- | |
| Head gasket thickness (compressed) | | .533 (.021) | |
| Minimum combustion chamber total volume ($cm^3$) | | NOT AVAILABLE | |
| Cyl. no. system (front to rear)* | L. Bank | 1-3-5-7 | |
| | R. Bank | 2-4-6-8 | |
| Firing order | | 1-8-4-3-6-5-7-2 | |
| Intake manifold material & mass [kg (weight, lbs.)] | | CAST ALUMINUM/6.900 (15.2) | |
| Exhaust manifold material & mass [kg (weight, lbs.)] | | CAST IRON/3.900 (8.6) L.H., 3.800 (8.4) R.H. | |
| Recommended fuel (leaded, unleaded, diesel) | | UNLEADED | |
| Fuel antiknock index (R + M) / 2 | | 87 | |
| Total dressed engine mass (wt) dry** | | 254.1 (560.2) AUTO. 260.8 (574.9) MAN | 257.5 (567.7) MAN. |

## Engine – Pistons

| | |
|---|---|
| Material & mass, g (weight, oz.) - piston only | ALUMINUM .502 (17.7) |

## Engine – Camshaft

| | | | |
|---|---|---|---|
| Location | | IN BLOCK ABOVE CRANKSHAFT | |
| Material & mass kg (weight, lbs.) | | CAST IRON 3.969 (8.75) | CAST IRON 3.856 (8.5) |
| Drive type | Chain / belt | CHAIN | |
| | Width / pitch | 15.976 (.625)/.5 | |

* 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 THOSE ITEMS NECESSARY TO MAKE ENGINE A COMPLETE READY-TO-RUN UNIT.

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| | |
|---|---|
| **Engine Description/Carb. Engine Code** | 5.0L V8 (305 CID)<br>(TUNED PORT FUEL INJECTION)<br>RPO LB9 |

## ENGINE – GENERAL

| | | |
|---|---|---|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.) | | 90°<br>FRONT<br>LONGITUDINAL |
| Manufacturer | | CHEVROLET |
| No. of cylinders | | 8 |
| Bore | | 94.89 (3.74) |
| Stroke | | 88.39 (3.48) |
| Bore spacing (C / L to C L) | | 111.8 (4.40) |
| Cylinder block material & mass kg (lbs.) | | CAST IRON 68.674 (151.4) |
| Cylinder block deck height | | 229.2 (9.025) |
| Deck clearance (minimum) (above or below block) | | .635 (.025) BELOW |
| Cylinder head material & mass kg (lbs.) | | CAST IRON 17.917 (39.5) |
| Cylinder head volume ($cm^3$) | | NOT APPLICABLE |
| Head gasket thickness (compressed) | | .533 (.021) |
| Minimum combustion chamber total volume ($cm^3$) | | NOT AVAILABLE |
| Cyl. no. system (front to rear)* | L. Bank | 1-3-5-7 |
| | R. Bank | 2-4-6-8 |
| Firing order | | 1-8-4-3-6-5-7-2 |
| Intake manifold material & mass [kg (weight, lbs.)] | | CAST ALUMINUM/6.117 (13.5) |
| Exhaust manifold material & mass [kg (weight, lbs.)] | | CAST IRON/L.H. 3.900 (8.6) R.H. 3.800 (8.4) |
| Recommended fuel (leaded, unleaded, diesel) | | UNLEADED |
| Fuel antiknock index (R + M) 2 | | 87 |
| Total dressed engine mass (wt) dry** | | 254.1 (560.2) AUTO. |

## Engine – Pistons

| | |
|---|---|
| Material & mass, g (weight, oz.) - piston only | ALUMINUM/.502 (17.7) |

## Engine – Camshaft

| | | |
|---|---|---|
| Location | | IN BLOCK ABOVE CRANKSHAFT |
| Material & mass kg (weight, lbs.) | | CAST IRON 3.856 (8.5) |
| Drive type | Chain / belt | CHAIN |
| | Width / pitch | NOT AVAILABLE |

* 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 THOSE ITEMS NECESSARY TO MAKE ENGINE A COMPLETE READY-TO-RUN UNIT.

# MVMA Specifications Form
# Passenger Car

## METRIC (U.S. Customary)

Car Line ~~FIREBIRD~~
Model Year ~~1986~~ Issued ~~10-85~~ Revised (•) _____

| Engine Description/Carb. Engine Code | 2.5L L4 (151 CID) (ELECTRONIC FUEL INJECTION) RPO LQ9 | 2.8L V6 (173 CID) (2.8 MULTI-PORT FI) RPO LB8 |
|---|---|---|

### Engine – Valve System

| | | | |
|---|---|---|---|
| Hydraulic lifters (std., opt., NA) | | STANDARD | |
| Valves | Number intake / exhaust | 4/4 | 6/6 |
| | Head O.D. intake / exhaust | 43.69 (1.72)/38.10(1.50) | 43.64(1.72)/36.20(1.43) |

### Engine – Connecting Rods

| | | |
|---|---|---|
| Material & mass (kg., (weight, lbs.)) | CAST ARMA STEEL/.555(1.2) | SAE 1037 OR 1038 STEEL .399 (0.9) |

### Engine – Crankshaft

| | | | |
|---|---|---|---|
| Material & mass (kg., (weight, lbs.)) | | NODULAR CAST IRON 12.519(27.59) | NODULAR CAST IRON 14.170(31.24) |
| End thrust taken by bearing (no.) | | 5 | 3 |
| Number of main bearings | | 5 | 4 |
| Seal (material, one, two piece design, etc.) | Front | | |
| | Rear | | |

### Engine – Lubrication System

| | | |
|---|---|---|
| Normal oil pressure (kPa (psi) at engine rpm) | 259 (37.5) @ 2000 | 345-448 (50-65) @ 1200 |
| Type oil intake (floating, stationary) | STATIONARY | |
| Oil filter system (full flow, part, other) | FULL FLOW | |
| Capacity of c'case, less filter-refill-L (qt.) | 2.8 (3.0) | 3.8 (4.0) |

### Engine – Diesel Information

| | | |
|---|---|---|
| Diesel engine manufacturer | | |
| Glow plug, current drain at 0°F | | NOT |
| Injector nozzle | Type | |
| | Opening pressure (kPa (psi)) | APPLICABLE |
| 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 | NOT |
| Super charger - manufacturer | APPLICABLE |
| Charge cooler | |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| Engine Description Carb. Engine Code | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO LG4 | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO L69 |
|---|---|---|

## Engine – Valve System

| | | |
|---|---|---|
| Hydraulic lifters (std., opt., NA) | | STANDARD |
| Valves | Number intake / exhaust | 8/8 |
| | Head O.D. intake / exhaust | 46.74 (1.84) 38.10 (1.50) |

## Engine – Connecting Rods

| | |
|---|---|
| Material & mass [kg., (weight, lbs.)] | SAE 1037 OR 1038 STEEL/.388 (.855) |

## Engine – Crankshaft

| | | |
|---|---|---|
| Material & mass [kg., (weight, lbs.)] | | NODULAR CAST IRON/23.360 (51.50 |
| End thrust taken by bearing (no.) | | 5 |
| 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] | 345-448 (50-65) @ 2000 |
| Type oil intake (floating, stationary) | STATIONARY |
| Oil filter system (full flow, part, other) | FULL FLOW |
| Capacity of c case, less filter-refill-L (qt.) | 4.5 (5.0) |

## Engine – Diesel Information

| | | |
|---|---|---|
| Diesel engine manufacturer | | |
| Glow plug, current drain at 0°F | | NOT |
| Injector nozzle | Type | |
| | Opening pressure [kPa (psi)] | APPLICABLE |
| 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 | NOT |
| Super charger - manufacturer | APPLICABLE |
| Charge cooler | |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

| | |
|---|---|
| **Engine Description/Carb. Engine Code** | 5.0L V8 (305 CID)<br>(TUNED PROT FUEL INJECTION)<br>RPO L89 |

## Engine – Valve System

| | | |
|---|---|---|
| Hydraulic lifters (std., opt., NA) | | STANDARD |
| Valves | Number intake / exhaust | 8/8 |
| | Head O.D. intake / exhaust | 46.74 (1.84) 38.10 (1.50) |

## Engine – Connecting Rods

| | |
|---|---|
| Material & mass [kg., (weight, lbs.)] | STEEL/.388 (0.85) |

## Engine – Crankshaft

| | | |
|---|---|---|
| Material & mass [kg., (weight, lbs.)] | | NODULAR CAST IRON/23.360(51.50) |
| End thrust taken by bearing (no.) | | 5 |
| 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] | 345-448 (50-65) @ 2000 |
| Type oil intake (floating, stationary) | STATIONARY |
| Oil filter system (full flow, part, other) | FULL FLOW |
| Capacity of c case, less filter-refill-L (qt.) | 4.5 (5.0) |

## Engine – Diesel Information

| | | |
|---|---|---|
| Diesel engine manufacturer | | |
| Glow plug, current drain at 0°F | | NOT |
| Injector nozzle | Type | |
| | Opening pressure [kPa (psi)] | APPLICABLE |
| 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 | NOT |
| Super charger - manufacturer | APPLICABLE |
| Charge cooler | |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (●)

| Engine Description/Carb. Engine Code | 2.5L L4 (151 CID) (ELECTRONIC FUEL INJECTION) RPO LQ9 | 2.8L V6 (173 CID) (2.8 MULTI-PORT FI) RPO LB8 |
|---|---|---|

## Engine – Cooling System

| | | | | | | |
|---|---|---|---|---|---|---|
| Coolant recovery system (std., opt., n.a.) | | STANDARD | | | | |
| Coolant fill location (rad., bottle) | | BOTTLE, COOLANT RECOVERY | | | | |
| Radiator cap relief valve pressure [kPa (psi)] | | 103.4 (15) | | | | |
| Circulation thermostat | Type (choke, bypass) | BYPASS | | | | |
| | Starts to open at °C (°F) | 91° C (195°F) | | | | |
| Water pump | Type (centrifugal, other) | CENTRIFUGAL | | | | |
| | GPM 1000 pump rpm | 6 | | | | |
| | Number of pumps | ONE | | | | |
| | Drive (V-belt, other) | V-BELT | | | | |
| | Bearing type | SEALED BALL-ROLLER | | | | |
| | Impeller material | NOT AVAILABLE | | | | |
| | Housing material | " " | | | | |
| By-pass recirculation [type (inter., ext.)] | | EXTERNAL | | | INTERNAL | |
| Cooling system capacity | With heater–L(qt.) | 8.65(9.14)AUTO,8.79(9.29)MAN | | | 11.67(12.3)AUTO,11.77(12.4)MAN | |
| | With air cond.–L(qt.) | 8.67(9.16)AUTO,8.81(9.31)MAN | | | 11.59(12.2)AUTO,11.69(12.3)MAN | |
| | Opt. equipment [specify–L(qt.)] | 8.75(9.25)AUTO,8.75(9.25)MAN | | | 11.67(12.3)AUTO,11.77(12.4)MAN | |
| Water jackets full length of cyl. (yes, no) | | YES | | | | |
| Water all around cylinder (yes, no) | | YES | | | | |
| Water jackets open at head face (yes, no) | | NO | | | | |
| Radiator core | Std., A/C, HD | STD. | A/C | H.D. | STD. | A/C AND H.D. |
| | Type (cross-flow, etc.) | CROSS FLOW | | | | |
| | Construction (fin & tube mechanical, braze, etc.) | NOT AVAILABLE | | | | |
| | Material, mass [kg (wgt, lbs.)] | ALUMINUM, HIGH EFFICIENCY RADIATOR | | | | |
| | Width | 527.8 | 667.5 | 667.5 | 599.5 | 599.5 |
| | Height | 437.8 | 437.8 | 437.8 | 437.8 | 437.8 |
| | Thickness | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| | Fins per inch ❷ | 4.0 | 4.0 | * | 3.5 | 2.5 |
| Radiator end tank material | | NOT AVAILABLE | | | | |
| Fan | Std., elec., opt. | STD. | | OPT | STD. AND OPT. | |
| | Number of blades & type (flex, solid, material) | 4 COLUMBIUM SOLID | | 7, ALUMINUM, SOLID | 5, PLASTIC SOLID | |
| | Diameter & projected width | 381.0 (15.0) | | 406.4 (16.0) | 423.0 (16.7) | |
| | Ratio (fan to crankshaft rev.) | 1.16:1 | | NOT AVAILABLE | NOT AVAILABLE | |
| | Fan cutout type | NONE | | CLUTCH | NONE | |
| | Drive type (direct, remote) | BELT | | BELT | BELT | |
| | RPM at idle (elec.) | - | | - | - | |
| | Motor rating (wattage) (elec.) | - | | - | - | |
| | Motor switch (type & location) (elec.) | - | | - | - | |
| | Switch point (temp., pressure) (elec.) | - | | - | - | |
| | Fan shroud (material) | PLASTIC | | PLASTIC | PLASTIC | |

❷ - DISTANCE BETWEEN TOP OF FINS

* - 3.0 WITH MANUAL TRANS.
3.5 WITH AUTO. TRANS.

# MVMA Specifications Form
# Passenger Car

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

Car Line CAPRICE
Model Year 1986 Issued 10-85 Revised (•)

| Engine Description/Carb. Engine Code | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO LG4 | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO L69 HD |
|---|---|---|

## Engine – Cooling System

| | | | | | |
|---|---|---|---|---|---|
| Coolant recovery system (std., opt., n.a.) | | STANDARD | | | |
| Coolant fill location (rad., bottle) | | BOTTLE, COOLANT RECOVERY | | | |
| Radiator cap relief valve pressure [kPa (psi)] | | 103.4 (15) | | | |
| Circulation thermostat | Type (choke, bypass) | CHOKE | | | |
| | Starts to open at °C (°F) | 90.6°C (195°F) | | | |
| Water pump | Type (centrifugal, other) | CENTRIFUGAL | | | |
| | GPM 1000 pump rpm | 14 | | | |
| | Number of pumps | ONE | | | |
| | Drive (V-belt, other) | V-BELT | | | |
| | Bearing type | SEALED DOUBLE ROW BALL | | | |
| | Impeller material | NOT AVAILABLE | | | |
| | Housing material | " " | | | |
| By-pass recirculation [type (inter,. ext.)] | | INTERNAL | | | |
| Cooling system capacity | With heater–L(qt.) | 14.27(15.08)AUTO,14.41(15.23)MAN. | | 16.29(17.21)MAN. | |
| | With air cond.–L(qt.) | 14.65(15.48)AUTO,14.79(15.63)MAN. | | 16.21(17.13)MAN. | |
| | Opt. equipment [specify–L(qt.)] | 14.73(15.56)AUTO,14.87(15.71)MAN. | | - - | |
| Water jackets full length of cyl. (yes, no) | | YES | | | |
| Water all around cylinder (yes, no) | | YES | | | |
| Water jackets open at head face (yes, no) | | NO | | | |
| Radiator core | Std., A/C, HD | STD. | A/C OR HD | A/C. & HD | STD.& A/C |
| | Type (cross-flow, etc.) | CROSS FLOW | | | |
| | Construction (fin & tube mechanical, braze, etc.) | NOT AVAILABLE | | | |
| | Material, mass [kg (wgt, lbs.)] | ALUMINUM, HIGH EFFICIENCY RADIATOR # | | | |
| | Width | 667.5 | 667.5 | 667.5 | 667.5 |
| | Height | 437.8 | 437.8 | 437.0 | 437.8 |
| | Thickness | 23.5 | 34.5 | 34.0 | 34.0 |
| | Fins per inch @ | * | * | ** | 2.5 |
| Radiator end tank material | | NOT AVAILABLE | | | |
| Fan | Std., elec., opt. | STD. | OPT. | | STD., ELEC. |
| | Number of blades & type (flex, solid, material) | 5, PLASTIC, SOLID | 5, PLASTIC, SOLID | | 5, PLASTIC, SOLID |
| | Diameter & projected width | 423.0 (16.7) | 423.0 (16.7) | | 423.0 (16.7) |
| | Ratio (fan to crankshaft rev.) | 1.08:1 | .95:1 | | - |
| | Fan cutout type | CLUTCH | CLUTCH | | - |
| | Drive type (direct, remote) | BELT | BELT | | - |
| | RPM at idle (elec.) | - | - | | 2200 |
| | Motor rating (wattage) (elec.) | - | - | | 150 |
| | Motor switch (type & location) (elec.) | - | - | | TEMP. SWITCH, ENG. CYL HEAD |
| | Switch point (temp., pressure) (elec.) | - | - | | - |
| | Fan shroud (material) | PLASTIC | PLASTIC | | PLASTIC |

@ - DISTANCE BETWEEN TOP OF FINS
* - 4.0 WITH MANUAL TRANS.
3.5 WITH AUTO. TRANS.
** - 4.0 WITH MANUAL TRANS.
3.0 WITH AUTO. TRANS
# - AC AND HD RADIATOR AND LG4 & L69 AC RADIATOR WHICH IS COPPER-BRASS

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

**Engine Description/Carb. Engine Code**

5.0L V8 (305 CID)
TUNED PORT FUEL INJECTION
RPO LB9

## Engine – Cooling System

| | | |
|---|---|---|
| Coolant recovery system (std., opt., n.a.) | | STANDARD |
| Coolant fill location (rad., bottle) | | BOTTLE, COOLANT RECOVERY |
| Radiator cap relief valve pressure [kPa (psi)] | | 103.4 (15) |
| Circulation thermostat | Type (choke, bypass) | CHOKE |
| | Starts to open at °C (°F) | 90.6°C (195°F) |
| Water pump | Type (centrifugal, other) | CENTRIFUGAL |
| | GPM 1000 pump rpm | -- |
| | Number of pumps | ONE |
| | Drive (V-belt, other) | V-BELT |
| | Bearing type | SEALED DOUBLE ROW BALL |
| | Impeller material | NOT AVAILABLE |
| | Housing material | " " |
| By-pass recirculation [type (inter., ext.)] | | INTERNAL |
| Cooling system capacity | With heater–L(qt.) | 16.08 (16.99) |
| | With air cond.–L(qt.) | 16.00 (16.91) |
| | Opt. equipment [specify–L(qt.)] | 16.08 (16.99) |
| Water jackets full length of cyl. (yes, no) | | YES |
| Water all around cylinder (yes, no) | | YES |
| Water jackets open at head face (yes, no) | | NO |
| Radiator core | Std., A/C, HD | STD. |
| | Type (cross-flow, etc.) | CROSS FLOW |
| | Construction (fin & tube mechanical, braze, etc.) | NOT AVAILABLE |
| | Material, mass [kg (wgt. lbs.)] | ALUMINUM, HIGH EFFICIENCY RADIATOR |
| | Width | 667.5 |
| | Height | 437.8 |
| | Thickness | 34.0 |
| | Fins per inch @ | 2.5 |
| Radiator end tank material | | NOT AVAILABLE |
| Fan | Std., elec., opt. | STD. & A/C |
| | Number of blades & type (flex, solid, material) | 5, PLASTIC, SOLID |
| | Diameter & projected width | 423.0 (16.7) |
| | Ratio (fan to crankshaft rev.) | - - |
| | Fan cutout type | - - |
| | Drive type (direct, remote) | BELT |
| | RPM at idle (elec.) | - - |
| | Motor rating (wattage) (elec.) | - - |
| | Motor switch (type & location) (elec.) | - - |
| | Switch point (temp., pressure) (elec.) | - - |
| | Fan shroud (material) | PLASTIC |

@ - DISTANCE BETWEEN TOP OF FINS

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| Engine Description/Carb. Engine Code | 2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO LQ9 | 2.8L V6 (173 CID) (2.8 MULTI-PORT FI) RPO LB8 |
|---|---|---|

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

| | | | | |
|---|---|---|---|---|
| Induction type: carburetor, fuel injection system, etc. | | | FUEL INJECTION | |
| Carburetor | Mfgr. | | NONE | |
| | Choke (type) | | NONE | |
| | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual | NONE | |
| | | | NONE | |
| | | Automatic | NONE | |
| | | | NONE | |
| Idle A/F mix. | | | PRESENT-NO ADJUST PROVIDED | |
| Fuel injection | Point of injection (no.) | | THROTTLE BODY, ONE | FUEL INJECTORS AT INLET PORTS |
| | Constant, pulse, flow | | PULSE | |
| | Control (electronic, mech.) | | ECM | |
| | System pressure [kPa (psi)] | | 76 (11) | |
| Intake manifold heat control (exhaust or water thermostatic or fixed) | | | WATER | |
| Air cleaner type | Standard | | REPLACEABLE PAPER ELEMENT, SINGLE SNORKEL | DUAL ELEMENTS |
| | Optional | | - - | |
| Fuel pump | Type (elec. or mech.) | | ELECTRIC | |
| | Location (eng., tank) | | FUEL TANK | |
| | Pressure range [kPa (psi)] | | 83 (12) | |

## Fuel Tank

| | | | |
|---|---|---|---|
| Capacity [refill L (gallons)] | | 58.7 (15.5) | 58.7 (15.5) |
| Location (describe) | | REAR CENTER | |
| Attachment | | UNDERBODY STRAP | |
| Material & Mass [kg (weight lbs)] | | STEEL | |
| Filler pipe | Location & material | LEFT REAR QUARTER | |
| | Connection to tank | SOLDER | |
| Fuel line (material) | | STEEL | |
| Fuel hose (material) | | RUBBER | |
| Return line (material) | | STEEL | |
| Vapor line (material) | | STEEL | |
| Extended range tank | Opt., n.a. | NOT AVAILABLE | |
| | Capacity [L (gallons)] | NOT AVAILABLE | |
| | Location & material | NOT AVAILABLE | |
| | Attachment | NOT AVAILABLE | |
| Auxiliary tank | Opt., n.a. | NOT AVAILABLE | |
| | Capacity [L (gallons)] | NOT AVAILABLE | |
| | Location & material | NOT AVAILABLE | |
| | Attachment | NOT AVAILABLE | |
| | Selector switch or valve | NOT AVAILABLE | |
| | Separate fill | NOT AVAILABLE | |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| **Engine Description/Carb. Engine Code** | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO LG4 | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO L69 HO |
|---|---|---|

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

| | | | | |
|---|---|---|---|---|
| Induction type: carburetor, fuel injection system, etc. | | | CARBURETOR | |
| Carburetor | Mfgr. | | ROCHESTER QUADRAJET | |
| | Choke (type) | | ELECTRIC | |
| | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual | 700 RPM - NEUTRAL | 700 RPM - NEUTRAL |
| | | | - - | - - |
| | | Automatic | 500 RPM - DRIVE | 600 RPM - DRIVE |
| | | | - - | - - |
| Idle A/F mix. | | | PRESENT-NO ADJUSTMENT PROVIDED | |
| Fuel injection | Point of injection (no.) | | NOT APPLICABLE | |
| | Constant, pulse, flow | | - - | |
| | Control (electronic, mech.) | | - - | |
| | System pressure [kPa (psi)] | | - - | |
| Intake manifold heat control (exhaust or water thermostatic or fixed) | | | EXHAUST | |
| Air cleaner type | Standard | | REPLACEABLE ELEMENT, SINGLE SNORKEL | |
| | Optional | | NONE | |
| Fuel pump | Type (elec. or mech.) | | MECHANICAL | |
| | Location (eng., tank) | | LOWER RIGHT FRONT OF ENGINE | |
| | Pressure range [kPa (psi)] | | 51.7-62.0 (7.5-9.0) | |

## Fuel Tank

| | | |
|---|---|---|
| Capacity [refill L (gallons)] | | 61.3 (16.2) |
| Location (describe) | | REAR CENTER |
| Attachment | | UNDERBODY STRAP |
| Material & Mass [kg (weight lbs)] | | STEEL |
| Filler pipe | Location & material | LEFT REAR QUARTER |
| | Connection to tank | SOLDER |
| Fuel line (material) | | STEEL |
| Fuel hose (material) | | RUBBER |
| Return line (material) | | STEEL |
| Vapor line (material) | | STEEL |
| Extended range tank | Opt., n.a. | NOT AVAILABLE |
| | Capacity [L (gallons)] | NOT AVAILABLE |
| | Location & material | NOT AVAILABLE |
| | Attachment | NOT AVAILABLE |
| Auxiliary tank | Opt., n.a. | NOT AVAILABLE |
| | Capacity [L (gallons)] | NOT AVAILABLE |
| | Location & material | NOT AVAILABLE |
| | Attachment | NOT AVAILABLE |
| | Selector switch or valve | NOT AVAILABLE |
| | Separate fill | NOT AVAILABLE |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

**Engine Description/Carb. Engine Code**

5.0L V8 (305 CID)
(TUNED PORT FUEL INJECTION)
RPO LB9

## Engine – Fuel System

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

| | | | |
|---|---|---|---|
| Induction type: carburetor, fuel injection system, etc. | | | FUEL INJECTION |
| Carburetor | Mfgr. | | |
| | Choke (type) | | NONE |
| | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual | NONE |
| | | | NONE |
| | | Automatic | NONE |
| | | | NONE |
| Idle A/F mix. | | | PRESENT-NO ADJUSTMENT PROVIDED |
| Fuel injection | Point of injection (no.) | | FUEL INJECTION AT INLET PORTS |
| | Constant, pulse, flow | | PULSE |
| | Control (electronic, mech.) | | ECM |
| | System pressure [kPa (psi)] | | - - |
| Intake manifold heat control (exhaust or water thermostatic or fixed) | | | NOT APPLICABLE |
| Air cleaner type | Standard | | REPLACEABLE DUAL ELEMENTS |
| | Optional | | - - |
| Fuel pump | Type (elec. or mech.) | | ELECTRIC |
| | Location (eng., tank) | | FUEL TANK |
| | Pressure range [kPa (psi)] | | NOT AVAILABLE |

## Fuel Tank

| | | |
|---|---|---|
| Capacity [refill L (gallons)] | | 58.7 (15.5) |
| Location (describe) | | REAR CENTER |
| Attachment | | UNDERBODY STRAP |
| Material & Mass [kg (weight lbs)] | | STEEL |
| Filler pipe | Location & material | LEFT REAR QUARTER |
| | Connection to tank | SOLDER |
| Fuel line (material) | | STEEL |
| Fuel hose (material) | | RUBBER |
| Return line (material) | | STEEL |
| Vapor line (material) | | STEEL |
| Extended range tank | Opt., n.a. | NOT AVAILABLE |
| | Capacity [L (gallons)] | NOT AVAILABLE |
| | Location & material | NOT AVAILABLE |
| | Attachment | NOT AVAILABLE |
| Auxiliary tank | Opt., n.a. | NOT AVAILABLE |
| | Capacity [L (gallons)] | NOT AVAILABLE |
| | Location & material | NOT AVAILABLE |
| | Attachment | NOT AVAILABLE |
| | Selector switch or valve | NOT AVAILABLE |
| | Separate fill | NOT AVAILABLE |

# MVMA Specifications Form
# Passenger Car

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

Car Line ~~FIREBIRD~~
Model Year ~~1986~~ Issued ~~10-85~~ Revised (•) _____

| Engine Description Carb. / Engine Code | 2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO LQ9 | 2.8L V6 (173 CID) 2-BBL. CARBURETOR RPO LB8 |
|---|---|---|

## Vehicle Emission Control

| | | | | |
|---|---|---|---|---|
| Exhaust Emission Control | Type (air injection, engine modifications, other) | | COMPUTER COMMAND CONTROL | AIR PUMP WITH MANUAL 5-SPD. |
| | Air Injection | Pump or pulse | NOT AVAILABLE | |
| | | Driven by | NOT AVAILABLE | |
| | | Air distribution (head, manifold, etc.) | NOT AVAILABLE | |
| | | Point of entry | NOT AVAILABLE | |
| | Exhaust Gas Recirculation | Type (controlled flow, open orifice, other) | BACK PRESSURE MODULATED CONTROLLED FLOW | BACK PRESSURE MODULATED CONTROLLED FLOW |
| | | Exhaust source | MANIFOLD | MANIFOLD EXHAUST CROSSOVER |
| | | Point of exhaust injection (spacer, carburetor, manifold, other) | INLET MANIFOLD | |
| | Catalytic Converter | Type | SINGLE BED OXIDIZING & REDUCING | SINGLE BED, OX. & RED. |
| | | Number of | ONE | ONE |
| | | Location(s) | FORWARD BENEATH UNDERBODY | BENEATH RF UNDERBODY |
| | | Volume [L ($in^3$)] | 2.623 (160) | 2.782 (170) |
| | | Substrate type | PELLETS | MONOLIT |
| Crankcase Emission Control | Type (ventilates to atmosphere induction system, other) | | INDUCTION SYSTEM | |
| | Energy source (manifold vacuum, carburetor, other) | | MANIFOLD VACUUM | |
| | Discharges (to intake manifold, other) | | INLET MANIFOLD | |
| | Air inlet (breather cap, other) | | CARBURETOR AIR CLEANER | |
| Evaporative Emission Control | Vapor vented to (crankcase, canister, other) | Fuel tank | CANISTER | |
| | | Carburetor | - - | |
| | Vapor storage provision | | CANISTER | |
| Electronic system | Closed loop (yes no) | | YES | |
| | Open loop (yes no) | | NO | |

## Engine – Exhaust System

| | | | |
|---|---|---|---|
| Type (single, single with cross-over, dual, other) | | SINGLE | SINGEL WITH DUAL TAILPIPES |
| Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)] | | ONE REVERSE FLOW | |
| Resonator no. & type | | NONE | |
| Exhaust pipe | Branch o.d., wall thickness | NONE | 50.8 x 1.02 (2.0 x .040) |
| | Main o.d., wall thickness | 50.8 x 1.09 (2.0 x .043) | 57.15 x 1.02 (2.25 x .040) |
| | Material & Mass [kg (weight lbs)] | STAINLESS STEEL | STAINLESS STEEL |
| Intermediate pipe | o.d. & wall thickness | 50.8 x 1.09 (2.0 x .043) | 57.17 x 1.14 (2.25 x .045) |
| | Material & Mass [kg (weight lbs)] | ALUMINUM COATED STEEL | ALUMINUM COATED STEEL |
| Tail pipe | o.d. & wall thickness | 50.8 x 1.09 (2.0 x .043) | 57.15 x 1.14 (2.25 x .045) |
| | Material & Mass [kg (weight lbs)] | ALUMINUM COATED STEEL | ALUMINUM COATED STEEL |

# MVMA Specifications Form
# Passenger Car

## METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| Engine Description Carb. Engine Code | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO LG4 | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO L69 HO |
|---|---|---|

### Vehicle Emission Control

| | | | |
|---|---|---|---|
| Exhaust Emission Control | Type (air injection, engine modifications, other) | | AIR INJECTION WITH COMPUTER COMMAND CONTROL |
| | Air Injection | Pump or pulse | VANE |
| | | Driven by | V-BELT |
| | | Air distribution (head, manifold, etc.) | EXH. MANIFOLD & CATALYTIC CONVERTER |
| | | Point of entry | EXHUAST MANIFOLD |
| | Exhaust Gas Recirculation | Type (controlled flow, open orifice, other) | PULSE WIDTH MODULATED |
| | | Exhaust source | MANIFOLD EXHAUST CROSSOVER |
| | | Point of exhaust injection (spacer, carburetor, manifold, other) | INLET MANIFOLD |
| | Catalytic Converter | Type | DUAL BED, OXIDIZING & REDUCING |
| | | Number of | ONE |
| | | Location(s) | BENEATH RF UNDERBODY |
| | | Volume [L ($in^3$)] | 2.786 (170) |
| | | Substrate type | MONOLITH |
| Crankcase Emission Control | Type (ventilates to atmosphere, induction system, other) | | INDUCTION SYSTEM |
| | Energy source (manifold vacuum, carburetor, other) | | MANIFOLD VACUUM |
| | Discharges (to intake manifold, other) | | INLET MANIFOLD |
| | Air inlet (breather cap, other) | | AIR CLEANER |
| Evaporative Emission Control | Vapor vented to (crankcase, canister, other) | Fuel tank | CANISTER |
| | | Carburetor | CANISTER |
| | Vapor storage provision | | CANISTER |
| Electronic system | Closed loop (yes no) | | YES |
| | Open loop (yes no) | | NO |

### Engine – Exhaust System

| | | | |
|---|---|---|---|
| Type (single, single with cross-over, dual, other) | | SINGLE WITH DUAL TAILPIPES | |
| Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)] | | ONE, REVERSE FLOW | |
| Resonator no. & type | | NONE | |
| Exhaust pipe | Branch o.d., wall thickness | (a) | (b) |
| | Main o.d., wall thickness | (a) | (b) |
| | Material & Mass [kg (weight lbs)] | (SEE NOTES) | (SEE NOTES) |
| Intermediate pipe | o.d. & wall thickness | 57.15 x 1.14 (2.25 x .045) | 69.85 x 1.40 (2.75 x 0.05) |
| | Material & Mass [kg (weight lbs)] | ALUMINUM COATED STEEL | |
| Tail pipe | o.d. & wall thickness | 57.15 x 1.14 (2.25 x .045) (c) | 63.5 x 1.07 (2.5 x .04) (c) |
| | Material & Mass [kg (weight lbs)] | ALUMINUM COATED STEEL | |

(a) STAINLESS STEEL - OUTER PIPE 57.15 mm (2.25 in) DIAMETER, INNER PIPE 50.8 mm (2.0 in) DIAMETER WITH 2.155 mm (0.08 in) AIR GAP BETWEEN PIPES.

(b) STAINLESS STEEL - OUTER PIPE 63.5 mm (2.5 in) DIAMETR, INNER PIPE 57.15 mm (2.25 in) DIAMETER WITH 2.155 mm (0.08 in) AIR GAP BETWEEN PIPES.

(c) DUAL TAILPIPES.

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

**Engine Description/Carb. Engine Code**

5.0L V8 (305 CID)
(TUNED-PORT FUEL INJECTION
RPO LB9

## Vehicle Emission Control

| | | | |
|---|---|---|---|
| Exhaust Emission Control | Type (air injection, engine modifications, other) | | AIR INJECTION WITH COMPUTER COMMAND CONTROL |
| | Air Injection | Pump or pulse | AIR PUMP |
| | | Driven by | V-BELT |
| | | Air distribution (head, manifold, etc.) | NOT AVAILABLE |
| | | Point of entry | " " |
| | Exhaust Gas Recirculation | Type (controlled flow, open orifice, other) | BACK PRESSURE MODULATED CONTROLLED FLOW |
| | | Exhaust source | MANIFOLD |
| | | Point of exhaust injection (spacer, carburetor, manifold, other) | INLET MANIFOLD |
| | Catalytic Converter | Type | DUAL BED, OXIDIZING & REDUCING |
| | | Number of | ONE |
| | | Location(s) | BENEATH RF UNDERBODY |
| | | Volume [L (in³)] | 2.78 (170) |
| | | Substrate type | MONOLITH |
| Crankcase Emission 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) | | CARBURETOR AIR CLEANER |
| Evaporative Emission Control | Vapor vented to (crankcase, canister, other) | Fuel tank | CANISTER |
| | | Carburetor | - - |
| | Vapor storage provision | | CANISTER |
| Electronic system | Closed loop (yes no) | | YES |
| | Open loop (yes no) | | NO |

## Engine – Exhaust System

| | | |
|---|---|---|
| Type (single, single with cross-over, dual, other) | | SINGLE WITH DUAL TAILPIPES |
| Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lb.)] | | ONE, REVERSE FLOW |
| Resonator no. & type | | NONE |
| Exhaust pipe | Branch o.d., wall thickness | (a) |
| | Main o.d., wall thickness | (a) |
| | Material & Mass [kg (weight lbs)] | (SEE NOTES) |
| Intermediate pipe | o.d. & wall thickness | 69.85 x 1.40 (2. 7 x 0.05) 69.85 x 1.40 (2.75 x 0.05) |
| | Material & Mass [kg (weight lbs)] | ALUMINUM COATED STEEL |
| Tail pipe | o.d. & wall thickness | 63.5 x 1.07 (2.25 x .04) (b) |
| | Material & Mass [kg (weight lbs)] | ALUMINUM COATED STEEL |

(a) STAINLESS STEEL - OUTER PIPE 75.2 mm (3.0 in) DIAMETER, INNER PIPE 69.85 mm (2.75 in) WITH 2.155 mm (0.08 in) AIR GAP BETWEEN PIPES.

(b) DUAL TAILPIPES.

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD

Model Year 1986 Issued 10-85 Revised (•):

| Engine Description Carb. Engine Code | 2.5L L4 (151 CID) (ELECTRONIC FUEL INJECTION RPO LQ9 | 2.8L V6 (173 CID) (2.8 MULTI-PORT FI) RPO LB8 |
|---|---|---|

## Transmissions Transaxle

| | | |
|---|---|---|
| Manual 3-speed (std., opt., n.a.) (mfr.) | NOT AVAILABLE | |
| Manual 4-speed (std., opt., n.a.) (mfr.) | NOT AVAILABLE | NOT AVAILABLE |
| Manual 5-speed (std., opt., n.a.) (mfr.) | STANDARD | STANDARD |
| Manual overdrive (std., opt., n.a.) (mfr.) | NOT AVAILABLE | |
| Automatic (std., opt., n.a.) (mfr.) | NOT AVAILABLE | |
| Automatic overdrive (std., opt., n.a.) (mfr.) | NOT AVAILABLE | OPTIONAL |

## Manual Transmission Transaxle

| | | | | |
|---|---|---|---|---|
| Number of forward speeds | | | 5 | 5 |
| Transmission ratios | In first | | 3.76 | 3.50 |
| | In second | | 2.18 | 2.14 |
| | In third | | 1.42 | 1.36 |
| | In fourth | | 1.00 | 1.00 |
| | In fifth | | 0.86 | 0.78 |
| | In overdrive | | - - | - - |
| | In reverse | | 3.76 | 3.3 |
| Synchronous meshing (specify gears) | | | ALL FORWARD GEARS | |
| Shift lever location | | | FLOOR | |
| Lubricant | Capacity [L (pt.)] | | MANUAL 5-SPEED - 3.25 L (6.87 PTS) OF DEXRON II | |
| | Type recommended | | SAE-80W OR SAE-80W-90 GL5 | |
| | SAE viscosity number | Summer | SAE-80W OR SAE-80W-90 GL5 | |
| | | Winter | SAE-80W OR SAE-80W-90 GL5 | |
| | | Extreme cold | SAE-80W GL5 | |

## Clutch (Manual Transmission)

| | | | |
|---|---|---|---|
| Make, type, engagement (describe) – (hydraulic, cable, rod) | | VALEO, SINGLE DRY DISC, HYDRAULIC | |
| Assist (yes, no; percent) | | NO | |
| Type pressure plate springs | | BELLEVILLE | |
| Total spring load [N (lb.)] | | 5750 (1293) | 7750 (1742) |
| No. of clutch driven discs | | ONE | |
| Clutch facing | Material | NON ASBESTOS | |
| | Manufacturer | VALEO | |
| | Part number | F-202 | |
| | Rivets plate | 16 | 18 |
| | Rivet size | 5.41x3.63 (0.213x0.143) | |
| | Outside & inside dia. | 231.78x155.58(9.125x6.125) | |
| | Total eff. area [cm²(in.²)] | 234.0 (36.28) | |
| | Thickness | 7.50-8.00 mm (.295-.315) | 6.99-7.49 (.275-.295) |
| | Engagement cushion method | DRIVEN PLATE WAVE SPOKE SPRINGS | |
| Release bearing | Type & method of lubrication | BALL THRUST-PREPACEKD AND SEALED | |
| Torsional damping | Method, springs, friction material | COIL SPRINGS WITH NON-METAL FRICTION CONTROL | |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| Engine Description Carb. / Engine Code | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO LG4 | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO L69 |
|---|---|---|

## Transmissions Transaxle

| | | |
|---|---|---|
| Manual 3-speed (std., opt., n.a.) (mfr.) | NOT AVAILABLE | |
| Manual 4-speed (std., opt., n.a.) (mfr.) | NOT AVAILABLE | |
| Manual 5-speed (std., opt., n.a.) (mfr.) | STANDARD | |
| Manual overdrive (std., opt., n.a.) (mfr.) | NOT AVAILABLE | |
| Automatic (std., opt., n.a.) (mfr.) | NOT AVAILABLE | |
| Automatic overdrive (std., opt., n.a.) (mfr.) | OPTIONAL | NOT AVAILABLE |

| Manual Transmission Transaxle | | | M39 | MC4 |
|---|---|---|---|---|
| Number of forward speeds | | | 5 | 5 |
| Transmission ratios | In first | | 2.95 | 3.35 |
| | In second | | 1.94 | 1.93 |
| | In third | | 1.34 | 1.29 |
| | In fourth | | 1.00 | 1.00 |
| | In fifth | | 0.63 | 0.61 |
| | In overdrive | | - - | |
| | In reverse | | 2.76 | 3.15 |
| Synchronous meshing (specify gears) | | | ALL FORWARD GEARS | |
| Shift lever location | | | FLOOR | |
| Lubricant | Capacity [L (pt.)] | | 3.25L | |
| | Type recommended | | DEXRON II | |
| | SAE viscosity number | Summer | DEXRON II | |
| | | Winter | DEXRON II | |
| | | Extreme cold | DEXRON II | |

## Clutch (Manual Transmission)

| | | |
|---|---|---|
| Make, type, engagement (describe) – (hydraulic, cable, rod) | | VALEO, SINGLE DRY DISC, HYDRAULIC |
| Assist (yes, no percent) | | NO |
| Type pressure plate springs | | BELLEVILLE |
| Total spring load [N (lb.)] | | 7750 (1742) |
| No. of clutch driven discs | | ONE |
| Clutch facing | Material | NON ASBESTOS |
| | Manufacturer | VALEO |
| | Part number | F-202 |
| | Rivets plate | 18 |
| | Rivet size | 5.41 x 3.63 (.213 x .143) |
| | Outside & inside dia. | 254.0 x 165.0 (10.0 x 6.5) |
| | Total eff. area [$cm^2$($in.^2$)] | 293.0 (45.43) |
| | Thickness | 7.7 (.303) |
| | Engagement cushion method | DRIVEN PLATE WAVE SPOKE SPRINGS |
| Release bearing | Type & method of lubrication | BALL THRUST - PREPACKED AND SEALED |
| Torsional damping | Method: springs, friction material | COIL SPRINGS WITH NON-METAL FRICTION CONTROL |

# MVMA Specifications Form
# Passenger Car

## METRIC (U.S. Customary)

Car Line ~~FIREBIRD~~
Model Year ~~1986~~ Issued ~~10-85~~ Revised (●)

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

5.0L V8 (305 CID)
(TUNED PORT FUEL INJECTION)
RPO LB9

### Transmissions Transaxle

| | |
|---|---|
| Manual 3-speed (std., opt., n.a.) (mfr.) | NOT AVAILABLE |
| Manual 4-speed (std., opt., n.a.) (mfr.) | " " |
| Manual 5 speed (std., opt., n.a.) (mfr.) | " " |
| Manual overdrive (std., opt., n.a.) (mfr.) | " " |
| Automatic (std., opt., n.a.) (mfr.) | " " |
| Automatic overdrive (std., opt., n.a.) (mfr.) | STANDARD |

### Manual Transmission Transaxle

| | | | |
|---|---|---|---|
| Number of forward speeds | | | NOT AVAILABLE |
| Transmission ratios | In first | | " " |
| | In second | | " " |
| | In third | | " " |
| | In fourth | | " " |
| | In fifth | | " " |
| | In overdrive | | " " |
| | In reverse | | " " |
| Synchronous meshing (specify gears) | | | " " |
| Shift lever location | | | " " |
| Lubricant | Capacity [L (pt.)] | | " " |
| | Type recommended | | " " |
| | SAE viscosity number | Summer | " " |
| | | Winter | " " |
| | | Extreme cold | " " |

### Clutch (Manual Transmission)

| | | |
|---|---|---|
| Make, type, engagement (describe) – (hydraulic, cable, rod) | | NOT AVAILABLE |
| Assist (yes, no, percent) | | |
| Type pressure plate springs | | " " |
| Total spring load [N (lb.)] | | " " |
| No. of clutch driven discs | | " " |
| Clutch facing | Material | " " |
| | Manufacturer | " " |
| | Part number | " " |
| | Rivets plate | " " |
| | Rivet size | " " |
| | Outside & inside dia. | " " |
| | Total eff. area [$cm^2$ ($in^2$)] | " " |
| | Thickness | " " |
| | Engagement cushion method | " " |
| Release bearing | Type & method of lubrication | " " |
| Torsional damping | Method, springs, friction material | " " |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

| **Engine Description/Carb. Engine Code** | 2.5L L4 (151 CID) (ELECTRONIC FUEL INJECTION) RPO LQ9 | 2.8L V6 (173 CID) (2.8 MULTI-PORT FI) RPO LB8 |
|---|---|---|

## Automatic Transmission/Transaxle

| | | | |
|---|---|---|---|
| Trade name | | NOT AVAILABLE | 4-SPEED AUTOMATIC |
| Type and special features (describe) | | " " | TORQUE CONVERTER WITH CLUTCH 700-R4 |
| Selector | Location | " " | ON CONSOLE |
| | Ltr./No. designation | " " | P-R-N-D-D-2-1 |
| Gear ratios | R | " " | 2.29 |
| | D | " " | 1.00* |
| | 2 | " " | 1.63* |
| | 1 | " " | 3.06 |
| | Overdrive | " " | 0.70* |
| Max. upshift speed - drive range [km/h (mph)] | | " " | 1-2=59(37), 2-3=108(67) |
| Max. kickdown speed - drive range [km/h (mph)] | | " " | 3-2=101(63), 2-1=48(30) |
| Min. overdrive speed [km/h (mph)] | | " " | 72(44.5) |
| Torque converter | Number of elements | " " | 3 |
| | Max. ratio at stall | " " | 2.35 |
| | Type of cooling (air, liquid) | " " | LIQUID |
| | Nominal diameter | " " | 298 |
| Lubricant | Capacity [refill L (pt.)] | " " | 4.5L (9.5 PTS) |
| | Type Recommended | " " | GM DEXRON II |
| Oil cooler (std., opt., NA, internal, external, air, liquid) | | | STANDARD, INTEGRAL WITH RADIATOR |
| | | | *TORQUE CONVERTER CLUTCH IN 2nd 3rd & 4th GEARS |

## Axle or Front Wheel Drive Unit

| | | | |
|---|---|---|---|
| Type (front, rear) | | | REAR |
| Description | | | SEMI-FLOATING AXLE, OVERHUNG HYUPOID DRIVEN PINION AND RING GEAR |
| Limited slip differential (type) | | | CONE CLUTCH |
| Drive pinion offset | | | 1.75 |
| Drive pinion (type) | | | HYPOID GEAR |
| No. of differential pinions | | | TWO |
| Pinion / differential adjustment (shim, other) | | | SHIM |
| Pinion / differential bearing adjustment (shim, other) | | | COLLAPSIBLE SPACER |
| Driving wheel bearing (type) | | | ROLLER BEARING |
| Lubricant | Capacity [L (pt.)] | | 1.66 |
| | Type recommended | | GL5 GEAR LUBE |
| | SAE viscosity number | Summer | 80W OR 80W-90 GL-5 |
| | | Winter | 80W OR 80W-90 GL-5 |
| | | Extreme cold | 80W GL-5 |

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

| | | | |
|---|---|---|---|
| Axle ratio (or overall top gear ratio) | | 3.73 | 3.42 |
| No. of teeth | Pinion | 41 | 41 |
| | Ring gear or gear | 11 | 12 |
| Ring gear o.d. | | 194 (7-5/8) | |
| Transaxle | Transfer gear ratio | | |
| | Final drive ratio | | |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (●) _____

| Engine Description/Carb. Engine Code | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO LG4 | 5.0L V8 (305 CID) 4-BBL. CARBURETOR RPO L69 |
|---|---|---|

## Automatic Transmission/Transaxle

| | | | |
|---|---|---|---|
| Trade name | | 4-SPEED AUTOMATIC | NOT AVAILABLE |
| Type and special features (describe) | | TORQUE CONVERTER WITH CLUTCH 700-R4 | |
| Selector | Location | ON CONSOLE | |
| | Ltr./No. designation | P-R-N- D -D-2-1 | |
| Gear ratios | R | 2.29 | |
| | D | 1.00* | |
| | 2 | 1.63* | |
| | 1 | 3.06 | |
| | Overdrive | 0.70 | |
| Max. upshift speed - drive range [km/h (mph)] | | 1-2=55(34), 2-3=103(64) | |
| Max. kickdown speed - drive range [km/h (mph)] | | 3-2=96(60), 2-1=42(26) | |
| Min. overdrive speed [km/h (mph)] | | 56 (35)) | |
| Torque converter | Number of elements | 3 | |
| | Max. ratio at stall | 2.15 | |
| | Type of cooling (air, liquid) | LIQUID | |
| | Nominal diameter | 298 (11.75) | |
| Lubricant | Capacity [refill L (pt.)] | 4.5L (9.5 PTS) | |
| | Type Recommended | GM DEXRON II | |
| Oil cooler (std., opt., NA, internal, external, air, liquid) | | STANDARD INTEGRAL WITH RADIATOR | |

*TORQUE CONVERTER CLUTCH IN 2nd, 3rd & 4th GEARS.

## Axle or Front Wheel Drive Unit

| | | | |
|---|---|---|---|
| Type (front, rear) | | | REAR |
| Description | | | SEMI-FLOATING AXLE, OVERHUNG HYPOD DRIVEN PINION AND RING GEAR |
| Limited slip differential (type) | | | CONE CLUTCH |
| Drive pinion offset | | | 1.75 |
| Drive pinion (type) | | | HYPOID GEAR |
| No. of differential pinions | | | TWO |
| Pinion / differential adjustment (shim, other) | | | SHIM |
| Pinion / differential bearing adjustment (shim, other) | | | COLLAPSIBLE SPACER |
| Driving wheel bearing (type) | | | ROLLER BEARING |
| Lubricant | Capacity [L (pt.)] | | 1.66 |
| | Type recommended | | GL5 GEAR LUBE |
| | SAE viscosity number | Summer | 80W OR 80W-90 GL-5 |
| | | Winter | 80W OR 80W-90 GL-5 |
| | | Extreme cold | 80W GL-5 |

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

| | | MANUAL TRANSMISSION | | | MANUAL TRANSMISSION | |
|---|---|---|---|---|---|---|
| Axle ratio (or overall top gear ratio) | | 2.73 | 2.73 | 3.23 | 3.23 | 115 |
| No. of teeth | Pinion | 41 | 41 | 42 | 42 | 41 |
| | Ring gear or gear | 15 | 15 | 13 | 13 | 11 |
| Ring gear o.d. | | 194 (7-5/8) | | | | |
| Transaxle | Transfer gear ratio | - - | | | | |
| | Final drive ratio | - - | | | | |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

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

5.0L V8 (305 CID)
(TUNE PORT FUEL INJECTION)
RPO LB9

## Automatic Transmission/Transaxle

| | | |
|---|---|---|
| Trade name | | 4-SPEED AUTOMATIC |
| Type and special features (describe) | | TORQUE CONVERTER WITH CLUTCH 700-R4 |
| Selector | Location | ON CONSOLE |
| | Ltr./No. designation | P-R-N- D -D-2-1 |
| Gear ratios | R | 2.29 |
| | D | 1.00* |
| | 2 | 1.63* |
| | 1 | 3.06 |
| | Overdrive | 0.70* |
| Max. upshift speed - drive range [km/h (mph)] | | 1-2=59(37) 2-3=105(65) |
| Max. kickdown speed - drive range [km/h (mph)] | | 3-2=92(57), 2-1=40(25) |
| Min. overdrive speed [km/h (mph)] | | 50 (31) |
| Torque converter | Number of elements | 3 |
| | Max. ratio at stall | 185 |
| | Type of cooling (air, liquid) | LIQUID |
| | Nominal diameter | 298 (11.75) |
| Lubricant | Capacity [refill L (pt.)] | 4.5L (9.5 PTS.) |
| | Type Recommended | GM DEXRON II |
| Oil cooler (std., opt., NA, internal, external, air, liquid) | | STANDARD INTEGRAL WITH RADIATOR |

*TORQUE CONVERTER CLUTCH IN 2nd, 3rd & 4th GEARS.

## Axle or Front Wheel Drive Unit

| | | | |
|---|---|---|---|
| Type (front, rear) | | | REAR |
| Description | | | SEMI-FLOATING AXLE, OVERHUNG HYPOID DRIVEN PINION AND RING GEAR |
| Limited slip differential (type) | | | CONE CLUTCH |
| Drive pinion offset | | | 1.75 |
| Drive pinion (type) | | | HYPOID GEAR |
| No. of differential pinions | | | TWO |
| Pinion / differential adjustment (shim, other) | | | SHIM |
| Pinion / differential bearing adjustment (shim, other) | | | COLLAPSIBLE SPACER |
| Driving wheel bearing (type) | | | ROLLER BEARING |
| Lubricant | Capacity [L (pt.)] | | 1.66 |
| | Type recommended | | GL5 GEAR LUBE |
| | SAE viscosity number | Summer | 80W OR 80W-90 GL-5 |
| | | Winter | 80W OR 80W-90 GL-5 |
| | | Extreme cold | 80W GL-5 |

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

| | | | | |
|---|---|---|---|---|
| Axle ratio (or overall top gear ratio) | | 3.23 | 3.42 | 2.73 |
| No. of teeth | Pinion | 42 | 41 | 41 |
| | Ring gear or gear | 13 | 12 | 15 |
| Ring gear o.d. | | 194 (7-5/8) | | |
| Transaxle | Transfer gear ratio | - - | | |
| | Final drive ratio | - - | | |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| Engine Description/Carb. Engine Code | 2.5L-L4 151 CID EFI RPO LQ9 | 2.8L-V6 173 CID PFI RPO LB8 | 5.0L-V8 305 CID 4-BBL. CARB. RPO LG4 | 5.0L-V8 305 CID 4-BBL. CARB. RPO L69 | 5.0L-V8 CID PFI RPO LB9 |
|---|---|---|---|---|---|

## Propeller Shaft – Rear Wheel Drive

| | | | |
|---|---|---|---|
| Type (straight tube, tube-in-tube, internal-external damper, etc.) | | | STRAIGHT TUBE |
| Outer diam. x length* x wall thickness | Manual 3-speed trans. | | NOT AVAILABLE |
| | Manual 4-speed trans. | | NOT AVAILABLE |
| | Manual 5-speed trans. | | 63.5 x 1057 x 1.65 mm (2.5 x 41.6 x .065 in.) |
| | Overdrive | | NOT AVAILALBE |
| | Automatic transmission | | 63.5 x 1057 x 1.65 mm (2.5 x 41.6 x .065 in.) |
| Intermediate bearing | Type (plain, anti-friction) | | NONE |
| | Lubrication (fitting, prepack) | | NONE |
| Slip yoke | Type | | SPLINED |
| | Number of teeth | | 27 |
| | Spline o.d. | | 29.84 mm (1.174 in.) |
| Universal joints | Make and mfg. no. | Front | SAGINAW SIZE 44 |
| | | Rear | SAGINAW SIZE 44 |
| | Number used | | TWO |
| | Type (ball and trunnion, cross) | | CROSS |
| | Rear attach (u-bolt, clamp, etc.) | | STRAP AND BOLTS |
| | Bearing | Type (plain, anti-friction) | ANTI-FRICTION |
| | | Lubrication (fitting, prepack) | PREPACKED |
| Drive taken through (torque tube, arms or springs) | | | TORQUE ARM |
| Torque taken through (torque tube, arms or springs) | | | TORQUE ARM |

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

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| **Body Type And Or Engine Displacement** | ALL |
|---|---|

## Suspension – General

| | | |
|---|---|---|
| Car leveling | Std. opt. n.a. | NOT AVAILABLE |
| | Type (air, hyd., etc.) | " " |
| | Manual auto. controlled | " " |
| Provision for brake dip control | | FRONT SUSPENSION GEOMETRY |
| Provision for accl. squat control | | REAR SUSPENSION GEOMETRY |
| Provisions for car jacking | | ON ROCKER |
| Shock absorber (front & rear) | Type | DIRECT, DOUBLE-ACTION, HYDRAULIC |
| | Make | DELCO PRODUCTS |
| | Piston diameter | 32.0 mm (1.26) OF 35.0 mm (1.38) W/WS6 FRONT; 25.0 mm (1.0) REAR |
| | Rod diameter | 25 mm (1.0) FRONT; 12.5 mm (0.5) REAR |

## Suspension – Front

| | | |
|---|---|---|
| Type and description | | INDEPENDENT W/COIL SPRINGS, |
| Drive and torque taken through | | NOT AVAILABLE |
| Travel | Full jounce | 75.0 mm (2.95) |
| | Full rebound | 100.0 mm |
| Spring | Type (coil, leaf, other) & material | COIL, ALLOY STEEL |
| | Insulators (type & material) | NOT AVAILABLE |
| | Size (coil design height & i.d., bar length x dia.) | 260.0x103.0; 2490.0x15.0 BASE (10.2x4.06); (98.0x0.59) |
| | Spring rate [N mm (lb. in.)] | (a), (b), (c) |
| | Rate at wheel [N mm (lb. in.)] | SPRING RATE X (2.455) |
| Stabilizer | Type (link, linkless, frameless) | LINK |
| | Material & bar diameter | STL-30.9mm(1.2) BASE & SE;34.0mm(1.34) TRANS AM;36.0mm (1.4)W/WS6 OP |

## Suspension – Rear

| | | | |
|---|---|---|---|
| Type and description | | | SALISBURY AXLE W/TORQUE ARM, LCA, TRACK BAR, COIL SPRINGS |
| Drive and torque taken through | | | LCA & TORQUE ARM |
| Travel | Full jounce | | 85.0 mm (3.3) |
| | Full rebound | | 118.0 mm (4.6) |
| Spring | Type (coil, leaf, other) & material | | COIL, STEEL ALLOY |
| | Size (length x width, coil design height & i.d., bar length & dia.) | | 254.0x102.6; 2709.0x12.0 mm (10.0x4.03); (27.9x0.472) |
| | Spring rate [N mm (lb. in.)] | | 18.0/25.0; 23.0 (WS6) |
| | Rate at wheel [N mm (lb.-in.)] | | (SPRING RATE X 0.96) |
| | Insulators (type & material) | | RUBBER ISOLATED |
| | If leaf | No. of leaves | NOT APPLICABLE |
| | | Shackle (comp. or tens.) | " " |
| Stabilizer | Type (link, linkless, frameless) | | LINK |
| | Material & bar diameter | | STEEL - 18.0mm(0.71)SE & BASE;23.0mm(0.91)TRANS AM (d);25.0mm(1.9)WS( |
| Track bar (type) | | | HAT SECTION W/RUBBER BUSHINGS |

(a) BASE & SE: 64.0 (345.6) (V6 & L4), 70.0 (399.0) (V8)
(b) V99: 96.0 (547.2) (V8), 70.0 (399.0) (V6)
(c) WS6: 96.0 (547.2)
(d) EXC. V6 WHICH USED 18.0 mm BAR

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

**Body Type And/Or Engine Displacement**

ALL

## Brakes - Service

| | | | |
|---|---|---|---|
| Description | | | SINGLE CALIPER DISC FRONT, DUO SERVO DRUM REAR (a) |
| Brake type (std., opt., n.a.) | | Front (disc or drum) | DISC |
| | | Rear (disc or drum) | DRUM; DISC OPTIONAL |
| Self-adjusting (std., opt., n.a.) | | | STANDARD |
| Special valving | Type (proportion, delay, metering, other) | | REMOTE METERING AND PROPORTIONING, FRONT/REAR SPLIT |
| Power brake (std., opt., n.a.) | | | STANDARD |
| Booster type (remote, integral, vac., hyd., etc.) | | | 200.0 mm (7.87 in.) TANDEM VACUUM |
| Vacuum source (inline, pump, etc.) | | | ENGINE |
| Vacuum reservoir (volume in.$^3$) | | | NONE |
| Vacuum pump-type (elec, gear driven, belt driven, if other so state) | | | NONE |
| Anti-skid device type (std., opt., n.a.) (F R) | | | NOT AVAILABLE |
| Effective area [cm$^2$(in.$^2$)]* | | | 615.5 (95.4) TOTAL |
| Gross lining area [cm$^2$(in.$^2$)]**(F R) | | | 691.6 (107.2) TOTAL |
| Swept area [cm$^2$(in.$^2$)]***(F R) | | | 1985.1 (307.7) TOTAL |
| Rotor | Outerworking diameter | F R | F/267.0 mm (10.5); R/267.0 mm (10.5) |
| | Inner working diameter | F R | F/171.5 mm (6.75); R/171.5 mm (6.75) |
| | Thickness | F R | F/26.2 mm (1.03); R/26.2 mm (1.03) |
| | Material & type (vented solid) | F R | CAST IRON VENTED F/R |
| Drum | Diameter & width | F R | 241.0 mm (9.5) x 50.8 mm (2.0) |
| | Type and material | F R | CAST IRON FINNED (ALUMINUM FOR SELECTED APPLICATIONS) |
| Wheel cylinder bore | | | F/64.0 mm (2.5); R/19.0 mm (.75) DRUM; 48.0 mm (1.9) DISC |
| Master cylinder | Bore stroke | F R | BORE; 24.0 mm (0.94) DISC/DRUM; 25.4 mm (1.0) DISC/DISC |
| Pedal arc ratio | | | 3.25:1 |
| Line pressure at 445 N(100 lb.) pedal load [kPa (psi)] | | | |
| Lining clearance | | F R | SELF ADJUSTING F/R |
| Brake lining | Front wheel: Bonded or riveted (rivets seg.) | | RIVETED (A) |
| | Front wheel: Rivet size | | 5.33x7.92 mm (0.210x0.312) |
| | Front wheel: Manufacturer | | DELCO MORAINE |
| | Front wheel: Lining code***** | | DM803A |
| | Front wheel: Material | | SEMI-METALLIC |
| | Front wheel: **** Primary or out-board | | 125.0x48.4x11.04 mm (4.92x1.91x0.435) |
| | Front wheel: Size Secondary or in-board | | 125.0x48.4x10.55 mm (4.92x1.91x0.415) |
| | Front wheel: Shoe thickness (no lining) | | |
| | Rear wheel: Bonded or riveted (rivets seg.) | | RIVETED 10 PRI, 12 SEC DRUM RIVETED, 8 DISC |
| | Rear wheel: Manufacturer | | INLAND DELCO MORAINE |
| | Rear wheel: Lining Code***** | | IN 4035/ 4050 DM5470 |
| | Rear wheel: Material | | ASBESTOS |
| | Rear wheel: **** Primary or out-board | | 192.5x50.8x4.98mm(7.58x2.0x0.196)125.0x48.4x11.04mm(4.92x1.91x0.435) |
| | Rear wheel: Size Secondary or in-board | | 249.6x50.8x6.75mm(9.83x2.0x0.266)125.0x48.4x10.55mm(4.92x1.91x0.415) |
| | Rear wheel: Shoe thickness (no lining) | | F/R 1.98 mm (0.078) 08/3.42 mm (0.135); 18/4.85 mm (0.191) |

*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.

(a) DISC OPTIONAL FRONT/REAR

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

| Body Type And/Or Engine Displacement | BASE | SE | SE W/Y99<br>TRANS AM<br>Y99 W/LB8, LC4 | 16" |
|---|---|---|---|---|

## Tires And Wheels (Standard)

| | | | | | | |
|---|---|---|---|---|---|---|
| Tires | Size (load range, ply) | | 195/75R14 | 205/70R14 | 215/65R15 | 245/50R16 |
| | Type (bias, radial, etc.) | | STEEL BELTED RADIAL | | | |
| | Inflation pressure (cold) for recommended max. vehicle load | Front [kPa (psi)] | 240 (35) | | | 207 (30) |
| | | Rear [kPa (psi)] | 240 (35) | | | 207 (30) |
| | Rev./mile–at 70 km/h (45 mph) | | 817 | 823 | 801 | 813 |
| Wheels | Type & material | | STYLED STEEL DISC | CAST ALUMINUM | CAST ALUMINUM | CAST ALUMINUM |
| | Rim (size & flange type) | | 14" x 7" JJ | 14" x 7" JJ | 15" x 7" JJ | 16" x 8" JJ |
| | Wheel offset | | 8mm | 8mm | 8mm | |
| | Attachment | Type (bolt or stud) | STUD | | | |
| | | Circle diameter | 120.7 mm (4.75) | | | |
| | | Number & size | HEX NUTS 5-M12 x 1.5 | | | |
| Spare | Tire and wheel (same, if other describe) | | T125/70D15, 15" x 4" COMPACT | | | |
| | Storage position & location (describe) | | VERTICALLY, ADJACENT TO RH QUARTER PANEL | | | |

## Tires And Wheels (Optional)

| | |
|---|---|
| Size (load range, ply) | P235/60VR15 (REQD W/LB9, L69 V8 ENGINES) |
| Type (bias, radial, etc.) | STEEL-BELTED RADIAL |
| Wheel (type & material) | CAST ALUMINUM, STYLED |
| Rim (size, flange type and offset) | 15" x 7" JJ (8 mm) |
| Size (load range, ply) | 205/70R14 (OPTIONAL BASE ONLY, TRANS AM W/Y99) |
| Type (bias, radial, etc.) | STEEL-BELTED RADIAL |
| Wheel (type & material) | CAST ALUMINUM, DIAMOND SPOKE |
| Rim (size, flange type and offset) | 14" x 7" JJ |
| Size (load range, ply) | 215/65R15 (OPTIONAL SE ONLY, TRANS AM W/WS6) |
| Type (bias, radial, etc.) | STEEL-BELTED RADIAL |
| Wheel (type & material) | CAST ALUMINUM, HI TECH |
| Rim (size, flange type and offset) | 15" x 7" JJ |
| Size (load range, ply) | 215/65R15 (OPTIONAL SE ONLY, TRANS AM W/WS6 |
| Type (bias, radial, etc.) | STEEL-BELTED RADIAL |
| Wheel (type & material) | CAST ALUMINUM, DIAMOND SPOKE |
| Rim (size, flange type and offset) | 15" x 7" JJ |
| 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 LEVER APPLICATION - PUSH BUTTON REVERSE |
| 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 FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

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

## Steering

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Manual (std., opt., n.a.) | | | | NOT AVAILABLE | | | |
| Power (std., opt., n.a.) | | | | STANDARD | | | |
| Adjustable steering wheel (tilt, swing, other) | | Type and description | | TILT | | | |
| | | (Std., opt., n.a.) | | OPTIONAL | | | |
| Wheel diameter (W9) SAE J1100 | | Manual | | NOT AVAILABLE | | | |
| | | Power | | 368.0 mm (14.5) RIM | | | |
| Turning diameter m (ft.) | Outside front | Wall to wall (l. & r.) | | 12.02 m (39.4 ft.) | | 13.0 m (42.6 ft) EST. (c) | |
| | | Curb to curb (l. & r.) | | 11.25 m (36.9 ft.) | | 12.2 m (40.0 ft) EST. (c) | |
| | Inside rear | Wall to wall (l. & r.) | | NOT AVAILABLE | | | |
| | | Curb to curb (l. & r.) | | " " | | | |
| Scrub Radius* | | | | " " | | | |
| Manual | Gear | Type | | " " | | | |
| | | Make | | " " | | | |
| | | Ratios | Gear | " " | | | |
| | | | Overall | " " | | | |
| | No. wheel turns (stop to stop) | | | " " | | | |
| Power | Type (coaxial, linkage, etc.) | | | COAXIAL RECIRCULATING BALL | | | |
| | Make | | | SAGINAW STEERING GEAR | | | |
| | Gear | Type | | ACME WORM RECIRCULATING BALL | | | |
| | | Ratios | Gear | 14:1 (a) | 12.7:1 (b) | 12.7:1 (c) | |
| | | | Overall | 15.4:1 | 14:1 | 14:1 | |
| | Pump (drive) | | | V-BELT | | | |
| | No. wheel turns (stop to stop) | | | 2.7 | 2.5 | 2.2 | |
| Linkage | Type | | | PARALLELOGRAM | | | |
| | Location (front or rear of wheels, other) | | | FRONT | | | |
| | Tie rods (one or two) | | | TWO | | | |
| Steering axis | Inclination at camber (deg.) | | | NOT AVAILABLE | | | |
| | Bearings (type) | Upper | | BALL STUD | | | |
| | | Lower | | BALL STUD | | | |
| | | Thrust | | NONE | | | |
| Steering spindle & joint type | | | | STEERING KNUCKLE W/SPHERICAL JOINTS | | | |
| Wheel spindle | Diameter | Inner bearing | | 31.73 - 31.74 (1.2493 - 1.2498) | | | |
| | | Outer bearing | | 21.04 - 21.42 (0.83 - 0.84) | | | |
| | Thread (size) | | | 3/4 - 20 UNEF - 3A (MODIFIED) | | | |
| | Bearing (type) | | | TAPERED ROLLER | | | |

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

(a) BASE.

(b) TRANS AM AND SE WITHOUT WS6 PERFORMANCE SUSPENSION.

(c) TRANS AM AND SE WITH WS6 PERFORMANCE SUSPENSION.

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

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

## Wheel Alignment

| | | | |
|---|---|---|---|
| Front wheel at curb mass (wt.) | Service checking | Caster (deg.) | +3.0° ± .5° (L/R SIDE TO BE EQUAL WITHIN 1.0°) |
| | | Camber (deg.) | +1.0 ± 0.5° |
| | | Toe-in [outside track-mm (in.)] | +.15° +/- 0.1° PER WHEEL |
| | Service reset* | Caster | +3.0° ± .5° (L/R SIDE TO BE EQUAL WITHIN 0.5°) |
| | | Camber | +1.0 ± 0.5° |
| | | Toe-in | +.15° +/- 0.05° PER WHEEL |
| | Periodic M.V. inspection | Caster | +3° +/- .5° |
| | | Camber | +1° +/- .5° |
| | | Toe-in | +.15° +/- .5° |
| Rear wheel at curb mass (wt.) | Service checking | Camber (deg.) | NOT APPLICABLE |
| | | Toe-in [outside track-mm (in.)] | " " |
| | Service reset* | Camber | " " |
| | | Toe-in | " " |
| | Periodic M.V. inspection | Camber | " " |
| | | Toe-in | " " |

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

## Electrical – Instruments and Equipment

| | | |
|---|---|---|
| Speedometer | Type | CIRCULAR DIAL AND POINTER, 7 DIGIT ODOMETER ** |
| | Trip odometer (std., opt., n.a.) | OPTIONAL |
| EGR maintenance indicator | | NOT AVAILABLE |
| Charge indicator | Type | TELL-TALE-BASE, GAGES IN U21 & U52 * |
| | Warning device | INHERENT (IN TELLTALE) |
| Temperature indicator | Type | TELL-TALE-BASE, GAGES IN U21 & U52 * |
| | Warning device | INHERENT (IN TELLTALE) |
| Oil pressure indicator | Type | TELL-TALE-BASE, GAGES IN U21 & U52 * |
| | Warning device | INHERENT (IN TELLTALE) |
| Fuel indicator | Type | ELECTRIC GAGE, STANDARD POINTER BASE OR U21 *** |
| | Warning device | - - |
| Windshield wiper | Type (standard) | ELECTRIC 2-SPEED, DEPRESSED PARK |
| | Type (optional) | INTERMITTENT |
| | Blade length | 454.4 mm (18 in.) |
| | Swept area [$cm^2$($in.^2$)] | 5792.0 (898.0) |
| Windshield washer | Type (standard) | PUSHBUTTON (FLUIDIC TYPE STANDARD) |
| | Type (optional) | NOT AVAILABLE |
| | Fluid level indicator | NOT AVAILABLE |
| Horn | Type | ELECTRIC VIBRATOR |
| | Number used | DUAL STANDARD |
| Other | | PROVISIONS FOR ELECTRONIC CRUISE CONTROL AND OXYGEN SENSOR FLAG, CHECK ENGINE, HEADLAMP HIGH BEAM, TURN SIGNALS, BRAKE WARNING LIGHT, FASTEN SEATBELTS. DRIVER INFORMATION CENTER AVAILABLE W/U52 ELECTRONIC CLUSTER. |

* REPLACED BY GAUGES.

** DIGITAL SPEEDOMETER WITH U52 ELECTRONIC CLUSTER OPTION.

*** LIQUID CRYSTAL FUEL GAGE (ANALOG) WITH U52.

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

| Engine Description/Carb. Engine Code | 2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO LQ9 | 2.8L V6 (173 CID) MULTI-PORT FUEL INJECTION RPO LB8 |
|---|---|---|

## Electrical – Supply System

| | | | | |
|---|---|---|---|---|
| Battery | Make | DELCO REMY REEDOM II AND III | | |
| | Model, std., (opt.) | 75A-60 | 75-60 BASE | 75A-60 W/UA1 |
| | Voltage | 12 V | | |
| | Amps at 0°F cold crank | 630 | 500 | 630 |
| | Minutes-reserve capacity | 90 | 90 | 90 |
| | Amp/hrs. - 20 hr. rate | 54 | 54 | 54 |
| | Location | LEFT SIDE ENGINE COMPARTMENT | LEFT FRONT ENGINE COMPARTMENT | |
| Generator or alternator | Type and rating | (c, d, e, f) | (d, e, g) | |
| | Ratio (alt. crank/rev.) | 2.75:1 | | |
| | Optional (type & rating) | NONE | | |
| Regulator | Type | INTEGRAL W/ALTERNATOR | | |

## Electrical – Starting System

| | | |
|---|---|---|
| Start. motor | Current drain at 0°F | NOT AVAILABLE |
| Motor drive | Engagement type | POSITIVE SHIFT SOLENOID |
| | Pinion engages from (front, rear) | REAR |

## Electrical – Ignition System

| | | | | |
|---|---|---|---|---|
| Type | Electronic (std., opt., n.a.) | -- | | |
| | Other (specify) | HIGH ENERGY IGNITION (HEI) | | |
| Coil | Make | DELCO REMY | | |
| | Model | 1115305 (REMOTE) | | 1115313 (REMOTE) |
| | Current – Engine stopped – A | 0.5 | | |
| | Current – Engine idling – A | 5.1 | | |
| Spark plug | Make | AC | | |
| | Model | R44TSX | | R42CTS |
| | Thread (mm) | M14 x 1.25 | | M14 x 1.254 |
| | Tightening torque [N-m (lb, ft)] | 20-34 (15-25) | | 9-20 (7-15) |
| | Gap | 1.524 (0.60) | | 1.143 (0.45) |
| | Number per cylinder | ONE | | |
| Distributor | Make | DELCO REMY | | |
| | Model | 1103634 | | 110359 |

## Electrical – Suppression

| | |
|---|---|
| Locations & type | INTERNAL ALTERNATOR CAPACITOR, NON METALLIC HIGH-TENSION CABLES, RESISTOR SPARK PLUGS, IGNITION COIL BYPASS CAPACITOR, INTERNAL AC BLOWER MOTOR BYPASS CAPACITOR AND A/C COMPRESSION DIODE, WITH RADIO PROVISIONS; HOOD GROUNDING CLIP, ENGINE TO DASH PANEL GROUND STRAP, AND ON "HEATER-ONLY" BLOWER MOTORS, A COAX CAPACITOR. |

(c) 42 AMP WITH HEATER, 10 SI (22 AMP AT IDLE)
(d) 66 AMP WIT HEATER AND HEATER BLACKLIGHT, 12 SI (24 AMP AT IDLE)
(e) 78 AMP WITH AIR CONDITIONING, 12 SI (30 AMP AT IDLE)
(f) 94 AMP, 12 SI (30 AMP AT IDLE)
(g) 97 AMP, 15 SI (47 AMP AT IDLE)

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

| Engine Description/Carb. Engine Code | 5.0L V8 (305 CID) 4-BBL CARBURETOR RPO LG4 | 5.0L V8 (305 CID) 4-BBL CARURETOR RPO L69 | 5.0L V8 (305 CID) MULTI-PORT FUEL INJECTION RPO LB9 |
|---|---|---|---|

## Electrical – Supply System

| | | | | |
|---|---|---|---|---|
| Battery | Make | DELCO REMY FREEDOM II AND III | | |
| | Model, std., (opt.) | 75-60 | 75A-60 | |
| | Voltage | 12 V | | |
| | Amps at 0°F cold crank | 500 | 630 | |
| | Minutes-reserve capacity | 90 | 90 | |
| | Amp/hrs. - 20 hr. rate | 54 | 54 | |
| | Location | ENGINE COMPARTMENT LEFT FRONT | | |
| Generator or alternator | Type and rating | (a, c) | (f) | |
| | Ratio (alt. crank/rev.) | 3.12:1 | | |
| | Optional (type & rating) | (d, f) | | |
| Regulator | Type | INTEGRAL W/ALTERNATOR | | |

## Electrical – Starting System

| | | |
|---|---|---|
| Start. motor | Current drain at 0°F | NOT AVAILABLE |
| Motor drive | Engagement type | POSITIVE SHIFT SOLENOID |
| | Pinion engages from (front, rear) | REAR |

## Electrical – Ignition System

| | | | | | |
|---|---|---|---|---|---|
| Type | Electronic (std., opt., n.a.) | | | | |
| | Other (specify) | HIGH ENERGY IGNITION (HEI) | | | |
| Coil | Make | DELCO REMY | | | |
| | Model | INTEGRAL | | | |
| | Current – Engine stopped – A | -- | | | |
| | Current – Engine idling – A | -- | | | |
| Spark plug | Make | AC | | | |
| | Model | R43TS | R43TS | R43TS | |
| | Thread (mm) | M14 x 1.25 | | | |
| | Tightening torque [N-m (lb, ft)] | 9-20 (7-15) | | | |
| | Gap | 1.143 (0.45) | | | |
| | Number per cylinder | ONE | | | |
| Distributor | Make | DELCO REMY | | | |
| | Model | 1103460 | 1103598 | 1103596 | |

## Electrical – Suppression

| | |
|---|---|
| Locations & type | INTERNAL ALTERNATOR CAPACITOR, NON-METALLIC HIGH-TENSION CABLES, RESISTOR SPARK PLUGS, IGNITION COIL BYPASS CAPACITOR, INTERNAL AC BLOWER MOTOR BYPASS CAPACITOR AND A/C COMPRESSION DIODE, WITH RADIO PROVISIONS; HOOD GROUNDING CLIP, ENGINE TO DASH PANEL GROUND STRAP, FUSE BLOCK CAPACITOR, AND ON "HEATER-ONLY" BLOWER MOTORS, A COAX CAPACITOR. |

(a) 42 AMP (& C41/C49), 10 SI (22 AMP AT IDLE)
(c) 78 AMP (& C49/C60), 12 SI (30 AMP AT IDLE)
(d) 78 AMP (* C41/C49), 12 SI (30 AMP AT IDLE)
(e) 87 AMP (& C60), 15 SI (35 AMP AT IDLE). HEAVY DUTY OPTION
(f) 94 AMP, 12 SI (30 AMP AT IDLE)
(g) 108 AMP, 17 SI

# MVMA Specifications Form
# Passenger Car

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

Car Line ~~FIREBIRD~~
Model Year ~~1986~~ Issued ~~10-85~~ Revised (•) _____

| **Body Type** | ALL |
|---|---|

## Body

| | |
|---|---|
| Structure | FULL UNITIZED STEEL CONSTRUCTION. COWL, ROOF, UNDERBODY AND BODY PANELS WELDED TO FORM BODY SHELL. BOLT-IN FRONT SUSPENSION CROSSMEMBER. DOORS, ROOF, HOOD AND HATCH LID DOUBLE PANEL CONSTRUCTION. |
| Bumper system front - rear | BODY COLOR SOFT FACIA, HONEYCOMB ABSORBER AND HEAVY GAUGE REINFORCEMENT USED FRONT AND REAR. GM 5 MPH PROTECTION. |
| Anti-corrosion treatment | GALVANIZED METALS, ZINC RICH PRIMERS, WAX COATING AND OTHER CORROSION RESISTANT MATERIALS USED THROUGHOUT. |

## Body – Miscellaneous Information

| | | |
|---|---|---|
| Type of finish (lacquer, enamel other) | | LACQUER OR ENAMEL (BASE COAT/CLEAR COAT) |
| Hood | Hinge location (front, rear) | REAR |
| | Type (counterbalance, prop) | GAS STRUT ASSIST |
| | Release control (internal, external) | INTERNAL |
| Trunk lid | Type (counterbalance, other) | NOT AVAILABLE |
| | Internal release control (elec., mech., n.a.) | NOT AVAILABLE |
| Hatch-back lid | Type (counterbalance, other) | DUAL GAS STRUTS - ELECTRIC FINAL CLOSURE STD. |
| | Internal release control (elec., mech., n.a.) | ELECTRIC RELEASE OPTIONAL |
| | | |
| | | |
| | | |
| | | |
| Vent window control (crank, friction, pivot, power) | Front | NOT AVAILABLE |
| | Rear | NOT AVAILABLE |
| Seat cushion type (e.g., 60 40, bucket, bench, wire, foam etc.) | Front | BUCKET MOLDED FOAM PAD |
| | Rear | BUCKET MOLDED FOAM PAD |
| | 3rd seat | - - |
| Seat back type (e.g., 60 40, bucket, bench, wire, foam etc.) | Front | RECLINING BUCKET MOLDED FOAM PAD |
| | Rear | FOLDING BENCH. SPLIT BACK OPTIONAL MOLDED FOAM PAD |
| | 3rd seat | - - |
| | | |

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

Car Line ~~FIREBIRD~~
Model Year ~~1986~~ Issued ~~10-85~~ Revised (•) _____

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

### Restraint System

| | | |
|---|---|---|
| Active restraint system | Standard/optional | STANDARD |
| | Type and description | 3-POINT SHOULDER/LAP BELTS-FRONT; LAP BELTS-REAR |
| | Location | 2-FRONT, 2-REAR |
| Passive seat belts | Standard/optional | NOT AVAILABLE |
| | Power/manual | NOT AVAILABLE |
| | 2 or 3 point | NOT AVAILABLE |
| | Knee bar/lap belt | NOT AVAILABLE |

### Frame

| | |
|---|---|
| Type and description (separate frame, unitized frame, partially-unitized frame) | FULL INTEGRAL BODY FRAME, INCLUDES BOLTED ON FRONT SUSPENSION CROSSMEMBER. |

| Glass | SAE Ref. No. | |
|---|---|---|
| Windshield glass exposed surface area [$cm^2$($in.^2$)] | S1 | 9000.4 (1395.0) |
| Side glass exposed surface area [$cm^2$($in.^2$)] - total 2-sides | S2 | 6519.8 (1010.6) |
| Backlight glass exposed surface area [$cm^2$($in.^2$)] | S3 | 6232.0 (966.0) |
| Total glass exposed surface area [$cm^2$($in.^2$)] | S4 | 21752.2 (3371.6) |
| Windshield glass (type) | | CURVED-LAMINATED PLATE |
| Side glass (type) | | CURVED-TEMPERED PLATE |
| Backlight glass (type) | | CURVED-TEMPERED PLATE |

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD

Model Year 1986 Issued 10-85 Revised (•)

| | |
|---|---|
| **Body Type** | ALL |

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

| | | |
|---|---|---|
| Air conditioning (manual, auto. temp control) | | MANUAL CONTROLS - OPTIONAL, SPORT COUPE AND TRANS AM; ELECTRONIC CONTROLS - OPTIONAL ALL. |
| Clock (digital, analog) | | AVAILABLE ONLY W/CERTAIN RADIOS - OPTIONAL |
| Compass thermometer | | ELECTRONIC COMPASS - OPTIONAL |
| Console (floor, overhead) | | FULL LENGTH FRONT CONSOLE - STD; OVERHEAD CONSOLE STD SE; OPT OTHERS |
| Defroster, elec. backlight | | ELECTRIC - OPTIONAL |
| Electronic | Diagnostic warning (integrated, individual) | OPTIONAL |
| | Instrument cluster (list instruments) | TACHOMETER, SPEEDOMETER, TRIP ODOMETER, FUEL, OIL PRESSURE-TEMP VOLT** |
| | Keyless entry | NOT AVAILABLE |
| | Tripminder (avg. spd., fuel) | STANDARD SE; AVAILABLE BASE & TRANS AM ONLY W/INTERIOR ROOF CONSOLE |
| | Voice alert (list items) | NOT AVAILABLE |
| | Other | |
| | | |
| Fuel door lock (remote, key, electric) | | STANDARD SE; OPTIONAL BASE & TRANS AM |
| Lamps | Auto head on / off delay, dimming | NOT AVAILABLE |
| | Cornering | NOT AVAILABLE |
| | Courtesy (map, reading) | OPTIONAL W/LAMP GROUP |
| | Door lock, ignition | NOT AVAILABLE |
| | Engine compartment | NOT AVAILABLE |
| | Fog | STANDARD TRANS AM; NOT AVAILABLE BASE OR SE |
| | Glove compartment | NOT AVAILABLE |
| | Trunk | OPTIONAL ONLY W/LAMP GROUP |
| | Other | |
| | | |
| Mirrors | Day night (auto. man.) | MANUAL - STANDARD |
| | L.H. (remote, power, heated) | REMOTE STANDARD, POWER OPTIONAL |
| | R. H. (convex, remote, power, heated) | MANUAL CONVEX - STANDARD, POWER OPTIONAL |
| | Visor vanity (RH LH, illuminated) | RH - OPTIONAL |
| Parking brake-auto release (warning light) | | HAND RELEASE, WARNING LIGHT STANDARD |
| Power equipment | Door locks deck lid - specify | OPTIONAL POWER DOOR LOCKS, DECK LID RELEASE *** |
| | Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline) | LEAR SIEGLER ADJUSTABLE CUSTOM BUCKET-OPTIONAL FRONT RECARO BUCKET SEATS - OPTIONAL, 6-WAY, DRIVER-OPTIONAL; RECLINING DRIVER/PASSENGER-STANDARD. |
| | Side windows | OPTIONAL |
| | Vent windows | NOT AVAILABLE |
| | Rear window | NOT AVAILABLE |
| | | |
| Radio systems | Antenna (location, whip, w shield, power) | R.F. FENDER, FIXED MAST WITH RADIO, POWER-OPTIONAL |
| | AM, FM, stero, tape, CB | AM RADIO STANDARD **** |
| | Speaker (number, location) Premium sound | FOUR - TWO IN DASH, TWO IN ROOF SAIL PANEL |
| Roof open air fixed (flip-up, sliding, "T") | | HATCH ROOF W/REMOVABLE GLASS - OPTIONAL |
| Speed control device | | CRUISE CONTROL WITH RESUME SPEED - OPTIONAL |
| Speed warning device (light, buzzer, etc.) | | NOT AVAILABLE |
| Tachometer (rpm) | | STANDARD TRANS AM & SE; OPTIONAL BASE |
| Theft protection-type | | LOCK MOUNTED ON STEERING COLUMN-LOCKS STEERING WHEEL, TRANSMISSION SHIFT LEVERS AND IGNITION. |

* FULL GAGE PACKAGE (NON-ELECTRONIC) STANDARD ON SE,, TRANS AM; OPTIONAL ON FIREBIRD.

** SEAT BELT WARNING, ENGINE WARNING.

*** STANDARD-SE, OPTIONAL-SPORT COUPE AND TRANS AM. POWER FINAL CLOSURE LATCH STANDARD-ALL.

**** OPTIONAL-AM/FM STEREO, AM/FM STEREO CASETTE, AM STEREO, AM/FM STEREO CASETTE WITH EQUALIZER.

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

See Key Sheets for definitions

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

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

| Body Type | SAE Ref. No. | 2FS87 | 2FW87 |
|---|---|---|---|
| **Width** | | ALL DIMENSIONS mm (in.) UNLESS NOTED | |
| Tread (front) | W101 | 1541 ( 60.7) | |
| Trear (rear) | W102 | 1546 ( 61.6) | |
| Vehicle width | W103 | 1838 ( 72.4) | |
| Body width at Sg RP (front) | W117 | 1830 ( 72.0) | |
| Vehicle width (front doors open) | W120 | 3939 (155.1) | |
| Vehicle width (rear doors open) | W121 | - - | |
| Front fender overall width | W106 | 1801 ( 70.9) | |
| Rear fender overall width | W107 | 1832 ( 72.1) | |
| Tumble-home (deg.) | W122 | 31.5° | |
| **Length** | | | |
| Wheelbase | L101 | 2566 (101.0) | |
| Vehicle length | L103 | 4839 (190.5) | 4781 (191.8) |
| Overhang (front) | L104 | 1150 ( 45.3) | 1182 ( 46.5) |
| Overhang (rear) | L105 | 1123 ( 44.2) | |
| Upper structure length | L123 | 2669 (105.1) | |
| Rear wheel C L "X" coordinate | L127 | 2138 ( 84.2)+ | |
| Cowl point "X" coordinate | L125 | 108 ( 4.3)+ | |
| Front end length at centerline | L126 | 1692 ( 66.6) | |
| Rear end length at centerline | L129 | 345 ( 13.6) | |
| **Height **** | | | |
| Passenger distribution (front rear) | PD1,2,3 | 2 - 0 | |
| Trunk cargo load | | - | |
| Vehicle height | H101 | 1263 ( 49.7) | |
| Cowl point to ground | H114 | 887 ( 34.9) | |
| Deck point to ground | H138 | 912 ( 35.9) | |
| Rocker panel-front to ground | H112 | 184 ( 7.2) | |
| Bottom of door closed-front to grd | H133 | 250 ( 9.8) | |
| Rocker panel-rear to ground | H111 | 187 ( 7.4) | |
| Bottom of door closed-rear to grd | H135 | - - | |
| Windshield slope angle | H122 | 62.0 | |
| Backlight slope angle | H121 | 71.0 | |
| **Ground Clearance **** | | | |
| Front bumper to ground | H102 | 273 ( 10.7) | |
| Rear bumper to ground | H104 | 359 ( 14.1) | |
| Bumper to ground (front at curb mass (wt.)) | H103 | 304 ( 12.0 | |
| Bumper to ground (rear at curb mass (wt.)) | H105 | 378 ( 14.9) | |
| Angle of approach (degrees) | H106 | 15.7° | |
| Angle of departure (degrees) | H107 | 15.6° | |
| Ramp breakover angle (degrees) | H147 | 10.7° | |
| Axle differential to ground (front, rear) | H153 | 305 ( 12.0) | |
| Min. running ground clearance | H156 | 115 ( 4.5) | |
| Location of min. run grd. clear | | FRONT CROSSMEMBER | |

+REAR OF BASE GRID.

***All Vehicle Height And Ground Clearances Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.*

EPA LOADED VEHICLE WEIGHT Is The Base Vehicle Weight Plus All Coolant And Fluids Necessary For Operation Plus 100% Of The Fuel Capacity Plus The Weight Of All Options And Accessories Which Weigh Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants

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

See Key Sheets for definitions

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| Body Type | SAE Ref. No. | 2FS87 | 2FW87 |
|---|---|---|---|

### Front Compartment

| | | | |
|---|---|---|---|
| Sg RP front, "X" coordinate | L31 | 1050 ( 41.3) | |
| Effective head room | H61 | 940 ( 37.0) | |
| Max. eff. leg room (accelerator) | L34 | 1092 ( 43.0) | |
| SgRP to heel point | H30 | 181 ( 7.1) | |
| SgRP to heel point | L53 | 911 ( 35.9) | |
| Back angle | L40 | 26.5° | |
| Hip angle | L42 | 98.0 | |
| Knee angle | L44 | 133.0 | |
| Foot angle | L46 | 87.0 | |
| Design H-point front travel | L17 | 192 ( 7.6) | |
| Normal driving & riding seat track trvl. | L23 | 171 ( 6.7) | |
| Shoulder room | W3 | 1458 ( 57.4) | |
| Hip room | W5 | 1434 ( 56.5) | |
| •• Upper body opening to ground | H50 | 1164 ( 45.8) | |
| Steering wheel maximum diameter | W9 | 374 ( 14.7) | |
| Steering wheel angle | H18 | 18.0 | |
| Accel. heel pt. to steer. whl. cntr | L11 | NOT AVAILABLE | |
| Accel. heel pt. to steer. whl. cntr | H17 | NOT AVAILABLE | |
| Steering wheel to C / L of thigh | H13 | 89 ( 3.5) | |
| Steering wheel torso clearance | L7 | 356 ( 14.0) | |
| Headlining to roof panel (front) | H37 | 12 ( 0.5) | |
| Undepressed floor covering thickness | H67 | 16 ( 0.6) | |

All Interior Dimensions Are Measured With The Seating Reference Point (SgRP) ____ mm (1 Seat Adjuster Notch) Forward Of Rearmost Seat Position.

### Rear Compartment

| | | | |
|---|---|---|---|
| Sg RP Point couple distance | L50 | 668 ( 26.3) | |
| Effective head room | H63 | 905 ( 35.6) | |
| Min. effective leg room | L51 | 756 ( 29.8) | |
| Sg RP (second to heel) | H31 | 183 ( 7.2) | |
| Knee clearance | L48 | -15 ( -0.6) | |
| Compartment room | L3 | 582 ( 22.9) | |
| Shoulder room | W4 | 1430 ( 56.3) | |
| Hip room | W6 | 1087 ( 42.8) | |
| •• Upper body opening to ground | H51 | - - | |
| Back angle | L41 | 28.0° | |
| Hip angle | L43 | 68.5 | |
| Knee angle | L45 | 66.5 | |
| Foot angle | L47 | 116.5 | |
| Headlining to roof panel (second) | H38 | - - | |
| Depressed floor covering thickness | H73 | 18 ( 0.7) | |

### Luggage Compartment

| | | | |
|---|---|---|---|
| Usable luggage capacity [L (cu. ft.)] | V1 | | |
| •• Liftover height | H195 | 879 ( 34.6) | |

### Interior Volumes (EPA Classification)

| | | | |
|---|---|---|---|
| Vehicle class (subcompact, compact, etc.) | | SUB-COMPACT | |
| Interior volume index (cu. ft.) | | 97.2 | |
| Trunk/cargo index (cu. ft.) | | 12.4 | |

All linear dimensions are in millimeters (inches).
•• EPA Loaded Vehicle Weight, Loading Conditions

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

See Key Sheets for definitions

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| Body Type | SAE Ref. No. | 2FS87 | 2FW87 | 2FX87 |
|---|---|---|---|---|

### Station Wagon – Third Seat

| | | |
|---|---|---|
| Sg RP couple distance | L85 | NOT APPLICABLE |
| 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 | NOT APPLICABLE |
| 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 neight | H201 | |
| Rear opening height | H202 | |
| Tailgate to ground height | H250 | |
| Front seat back 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 | 886 ( 34.9) |
| Cargo length at floor (front) | L209 | 1156 ( 61.3) |
| Cargo length at second seatback height | L210 | 610 ( 24.0) |
| Cargo length at floor (second) | L211 | 845 ( 33.3) |
| Front seatback to load floor height | H197 | 360 ( 14.2) |
| Second seatback to load floor height | H198 | 242 ( 9.5) |
| Cargo volume index [$m^3$($ft.^3$)] | V3 | 879 ( 31.0) |
| Hidden cargo volume [$m^3$($ft.^3$)] | V4 | - - |
| Cargo volume index-rear of 2-seat | V11 | 350 ( 12.4) |

### Aerodynamics*

| | | | | |
|---|---|---|---|---|
| Wheel lip to ground, front | H172 | | | |
| Wheel lip to ground, rear | H173 | | | |
| Frontal area [$m^2$($ft^2$)] | FA | 1.95 (0.077) | 1.96 (0.077) | 1.95 (0.077) |
| Drag coefficient (Cd) | NOT AVAILABLE | | | |

* EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

| Body Type | 2FS87 | 2FW87 | 2FX87 |
|---|---|---|---|

## Vehicle Fiducial Marks

| Fiducial Mark Number* | | Define Coordinate Location |
|---|---|---|
| Front | (1) | X - FIDUCIAL MARK TO VERTICAL BASE GRID LINE - FRONT, MEASURED HORIZONTALLY FROM THE BASE GRID LINE TO THE FRONT FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT. |
| | | Y - FIDUCAIL MARK TO CENTER LINE OF CAR - FRONT, WIDTH MEASUREMENT MADE FROM CENTER LINE OF CAR TO FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT. |
| | (2) | Z - FIDUCIAL MARK TO HORIZONTAL BASE GRID LINE - FRONT, MEASURED VERTICALLY FROM BASE GRID LINE TO FRONT FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT. |
| Rear | (1) | X - FIDUCIAL MARK TO VERTICAL BASE GRID LINE - REAR, MEASURED HORIZONTALLY FROM BASE GRID LINE TO THE REAR FIDUCIAL MARK LOCATED ON THE RIGHT HAND RAIL (COMPARTMENT PAN - LONGITUDINAL). |
| | | Y - FICUCIAL MARK TO CENTER LINE OF CAR - REAR, WIDTH MEASUREMENT MADE FROM CENTER LINE OF CAR TO FIDUCIAL MARK LOCATED ON THE RIGHT HAND RAIL (COMPARTMENT PAN - LONGITUDINAL). |
| | (2) | Z - FIDUCIAL MARK TO HORIZONTAL BASE GRID LINE - REAR, MEASURED VERTICALLY FROM BODY BASE GRID LINE TO THE REAR FIDUCIAL MARK LOCATED ON THE RIGHT HAND RAIL (COMPARTMENT PAN - LONGITUDINAL). |

| Fiducial Mark Number | | |
|---|---|---|
| Front | W21 | 540 (21.3) |
| | L54 | 688 (27.1) * |
| | H81 | -32 (-1.3) # |
| | H161 | 293 (11.5) |
| ** | H163 | 267 (10.5) |
| Rear | W22 | 548 (21.6) |
| | L55 | 2815 (110.8) * |
| | H82 | 96 (3.8) # |
| | H162 | 421 (16.6) |
| ** | H164 | 402 (15.8) |

* VERTICAL BASE GRID 2000 mm LINE.
\# HORIZONTAL BASE GRID 500 mm LINE.

* Reference – SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

**All linear dimensions are in millimeters (inches).**

** **EPA Loaded Vehicle Weight, Loading Conditions**

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•)

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

## Lamps and Headlamp Shape*

| | | | |
|---|---|---|---|
| Height above ground to center of bulb or marker | Headlamp (SAE - H127) | Highest** | 692.0 (27.2) |
| | | Lowest | |
| | Taillamp (SAE - H128) | Highest** | 759.0 (29.9) |
| | | Lowest | |
| | Sidemarker | Front | 524.0 (20.6) |
| | | Rear | 558.0 (22.0) |
| Distance from C L of car to center of bulb | Headlamp | Inside | |
| | | Outside** | 622.0 (24.5) |
| | Taillamp | Inside | 404.0 (15.9) |
| | | Outside** | 543.0 (21.4) |
| | Directional | Front | 369.0 (14.5) |
| | | Rear | 543.0 (21.4) |
| | | | |
| Halogen headlamp (std., opt., n.a.) | Lo beam | | OPTIONAL |
| | Hi beam | | OPTIONAL |
| | Replaceable bulb | | N.A. (SEALED BEAM) |
| | Shape | | RECTANGULAR |
| Headlamp other than above | Lo beam | | CONVENTIONAL |
| | Hi beam | | CONVENTIONAL |
| | Replaceable | | ENTIRE SEALED BEAM UNIT |
| | Shape | | RECTANGULAR |
| | Type | | FOUR LAMP SYSTEM |

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

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

## Vehicle Mass (weight)

| Model | 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 | |
| FIREBIRD | | | | | | | | |
| 2-DOOR HATCHBACK COUPE | | | | | | | | |
| FIREBIRD | 720.4 | 488.8 | 1309.2 | 42.6 | 57.4 | 16.5 | 83.5 | 1264.2 |
| 2F587 | (1588.2) | (1298.1) | (2886.3) | | | | | (2787.0) |
| TRANS AM | 825.8 | 643.5 | 1469.3 | 42.6 | 57.4 | 16.5 | 83.5 | 1420.9 |
| 2FW87 | (1820.6) | (1418.7) | (3239.3) | | | | | (3132.5) |
| SE | 746.7 | 624.0 | 1370.7 | 42.6 | 57.4 | 16.5 | 83.5 | 1319.8 |
| 2FX87 | (1646.2) | (1375.7) | (3021.9) | | | | | (2909.6) |

CURB MASS - THE CALCULATED WEIGHT OF A VEHICLE WITH STANDARD EQUIPMENT ONLY AS DESIGNED WITH ADDITIONAL LOAD OF OILS, LUBES, COOLANTS AND FUEL FILLED TO CAPACITY (16.0 GALLONS AVERAGE).

SHIPPING MASS - SAME AS CURB MASS EXCEPT WITH 3 GALLONS OF FUEL.

* Reference – SAE J1100 Motor vehicle dimensions, curb weight definition.
** Shipping mass (weight) definition –

# MVMA Specifications Form
# Passenger Car

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

Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

| Equipment | | Optional Equipment Differential Mass (weight)* | | | |
|---|---|---|---|---|---|
| | | MASS, kg. (weight, lb.) | | | Remarks |
| | | Front | Rear | Total | |
| POWER SEAT | AC3 | 2.2 | 2.8 | 5.0 | |
| | | (4.8) | (6.2) | (11.0) | |
| POWER WINDOWS | A31 | 1.2 | 1.0 | 2.2 | |
| | | (2.6) | (2.2) | (4.8) | |
| LUXURY INTERIOR | B20 | .6 | .6 | 1.2 | |
| | | (1.3) | (1.3) | (2.6) | |
| HATCH ROOF | CC1 | 5.8 | 9.6 | 15.4 | IGNITION LOCKS |
| | | (12.8) | (21.1) | (33.9) | |
| REAR WINDOW WIPER | C25 | -.6 | 3.8 | 3.2 | |
| | | (-1.3) | (8.4) | (7.1) | |
| AIR CONDITIONING | C60 | 19.4 | 1.8 | 21.2 | WITH RPO LG9 ENGINE |
| | | (42.8) | (4.0) | (46.8) | |
| | | 17.0 | 1.8 | 18.8 | WITH RPO LB8 ENGINE |
| | | (37.5) | (4.0) | (41.5) | |
| | | 21.0 | 1.8 | 22.8 | WTIH RPO LG4 ENGINE |
| | | (46.3) | (4.0) | (50.3) | |
| | | 20.6 | 1.8 | 22.4 | WITH RPO L69 ENGINE |
| | | (45.4) | (4.0) | (49.4) | |
| | | 20.4 | 1.8 | 22.2 | WITH RPO LB9 ENGINE |
| | | (45.0) | (4.0) | (49.0) | |
| AIR CONDITIONING/ ELECTRONIC | C67 | 21.0 | 1.8 | 22.8 | |
| | | (46.3) | (4.0) | (50.3) | |
| LOUVER-SUNSHIELD | DE1 | -.6 | 8.4 | 7.8 | |
| | | (-1.3) | (18.5) | (17.2) | |
| SPOILER-DECK LID | D80 | -1.4 | 6.0 | 4.6 | 2FS87/2FX87 ONLY |
| | | (-3.1) | (13.2) | (10.1) | |
| SPOILER-AERO WIND | D81 | -2.0 | 12.4 | 19.4 | 2FW87 ONLY |
| | | (-4.4) | (27.3) | (22.9) | |
| 4-WHEEL DISC BRAKES | J65 | 0 | 6.0 | 6.0 | |
| | | (0) | (13.2) | (13.2) | |

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

# MVMA Specifications Form
# Passenger Car

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

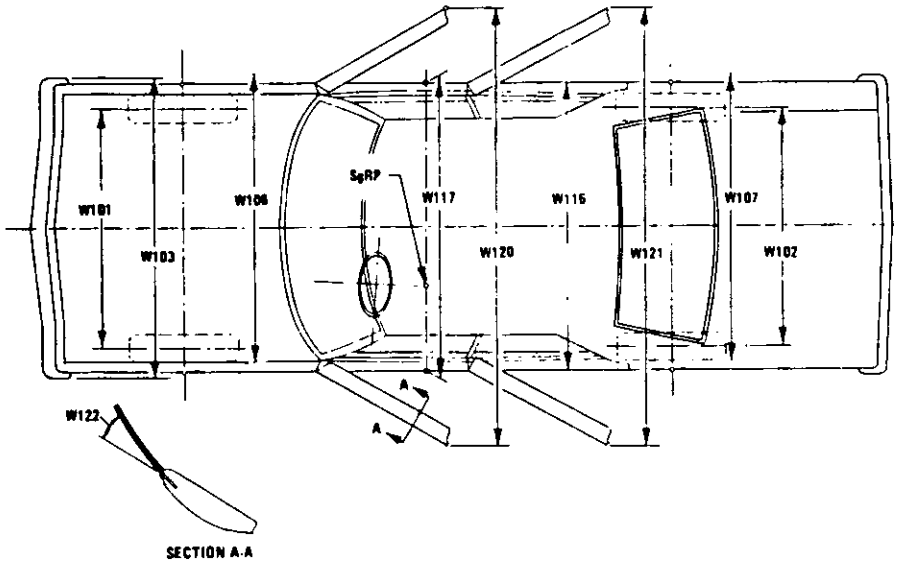
Car Line FIREBIRD
Model Year 1986 Issued 10-85 Revised (•) _____

| Equipment | Optional Equipment Differential Mass (weight)* | | | Remarks |
|---|---|---|---|---|
| | MASS, kg. (weight, lb.) | | | |
| | Front | Rear | Total | |
| CRUISE CONTROL-THREE | 2.0 | 0 | 2.0 | WITH RPO LB8 ENGINE |
| MODE WITH RESUME | (4.4) | (0) | (4.4) | |
| FEATURE (AVAILABLE ON MANUAL | | | | |
| OR AUTOMATIC TRANSMISSIONS) | 2.4 | 0 | 2.4 | WITH ALL ENGINES, EXCEPT LB8 |
| RPO-K34 | (5.3) | (0) | (5.3) | |
| | | | | |
| 2.8 LITER V6 (173 CID) | 51.4 | 8.0 | 59.4 | WITH RPO MBI |
| RPO-LB8 | (113.3) | (17.6) | (130.9) | |
| | | | | |
| | 40.0 | 5.6 | 45.6 | WITH RPO MD8 |
| | (88.2) | (12.3) | (100.5) | |
| | | | | |
| 5.0 LITER V8 (305 CID) | 116.2 | 13.2 | 129.4 | |
| RPO LB9 | (256.2) | (29.1) | (285.3) | |
| | | | | |
| 5.0 LITER V8 (305 CID) | 111.0 | 9.2 | 120.2 | |
| RPO LG4 | (244.7) | (20.3) | (265.0) | |
| | | | | |
| 5.0 LITER V8 (305 CID) | 116.0 | 13.0 | 129.0 | |
| HIGH OUTPUT ENGINE RPO L69 | (255.7) | (28.6) | (284.3) | |
| | | | | |
| AUTOMATIC TRANSMISSION WITH | 17.2 | 5.8 | 23.0 | WITH LB8 ENGINE |
| OVERDRIVE (700-R4) RPO MD8 | (37.9) | (12.8) | (50.7) | |
| | | | | |
| | 20.8 | 8.2 | 29.0 | WITH LG4 ENGINE |
| | (45.9) | (18.1) | (64.0) | |
| | | | | |
| | 23.0 | 9.2 | 32.2 | WITH LB9 ENGINE |
| | (50.7) | (20.3) | (71.0) | |
| | | | | |
| ALUMINUM WHEELS (15 x 7) | -4.6 | -4.6 | -9.2 | |
| RPO N24 | (-10.1) | (-10.1) | (-20.2) | |
| | | | | |
| STEERING COLUMN-TILT | .8 | .2 | 1.0 | ALL MODELS |
| RPO N33 | (1.8) | (.4) | (2.2) | |

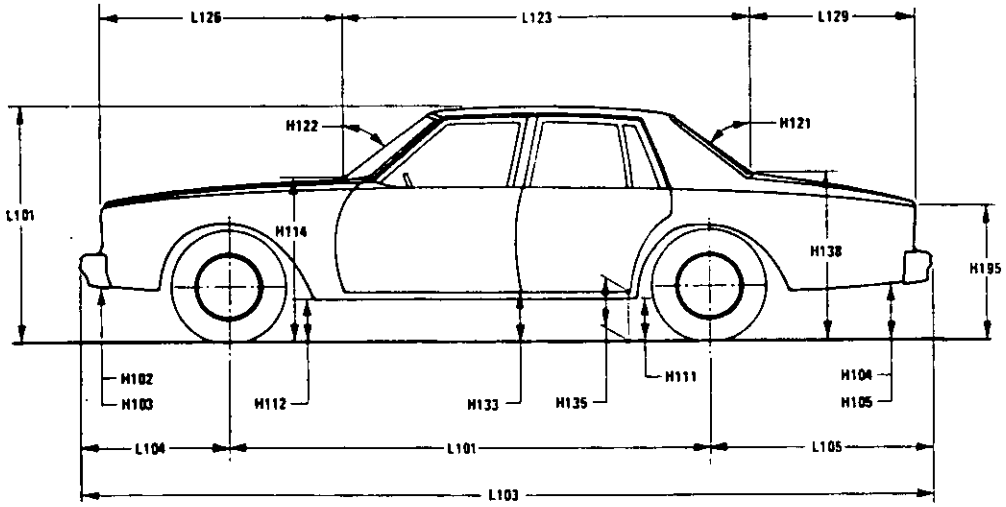
*Also see Engine - General Section for dressed engine mass (weight).

## Exterior Car And Body Dimensions – Key Sheet

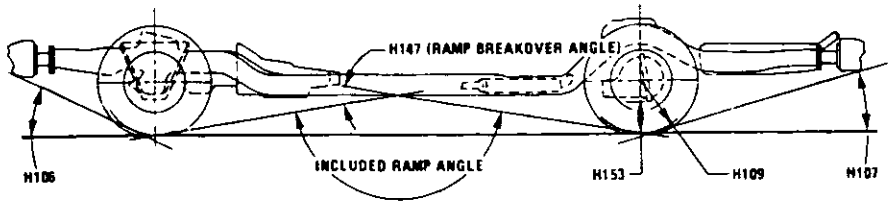
### Exterior Width




### Exterior Length & Height

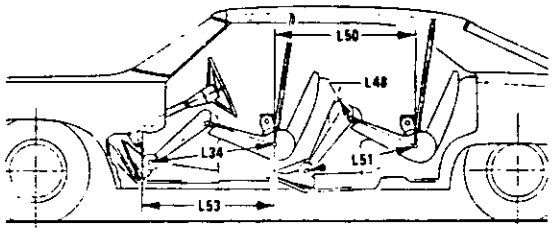


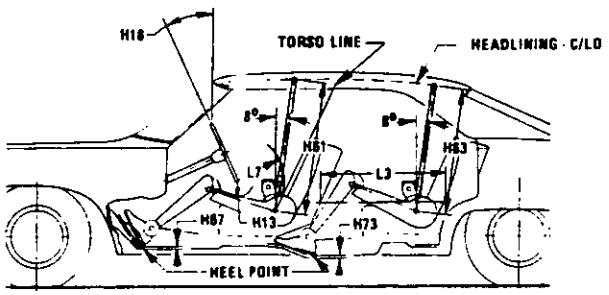

### Exterior Ground Clearance

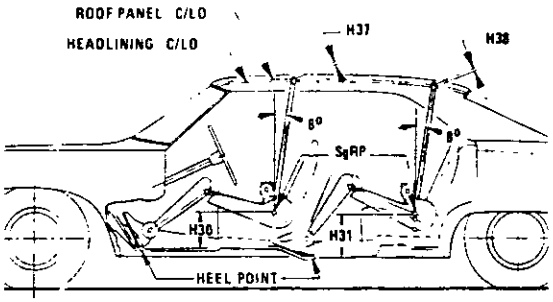


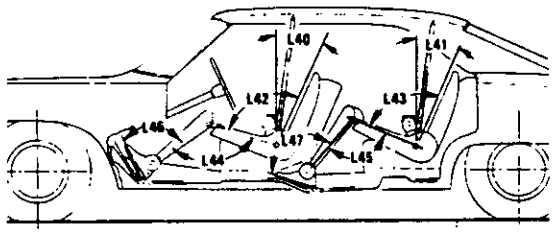
# MVMA Specifications Form
# Passenger Car
**METRIC (U.S. Customary)**

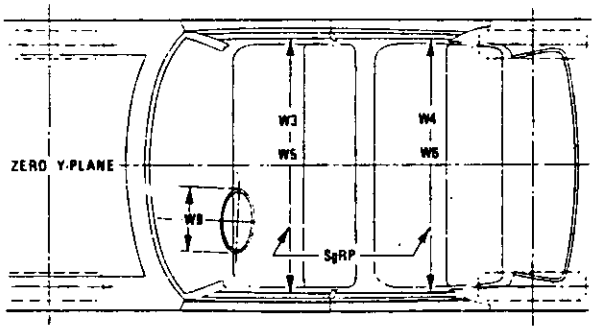
## Interior Car And Body Dimensions – Key Sheet

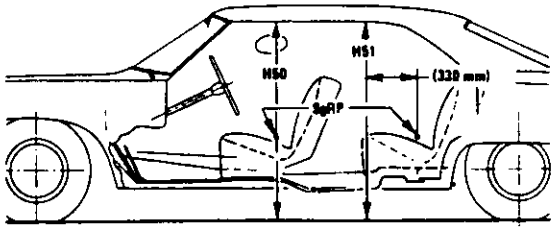


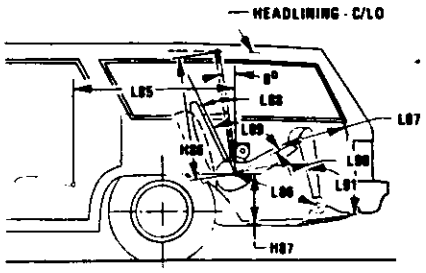



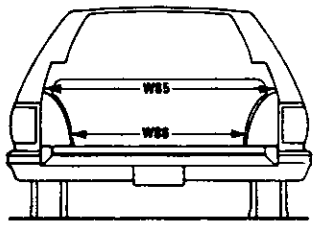



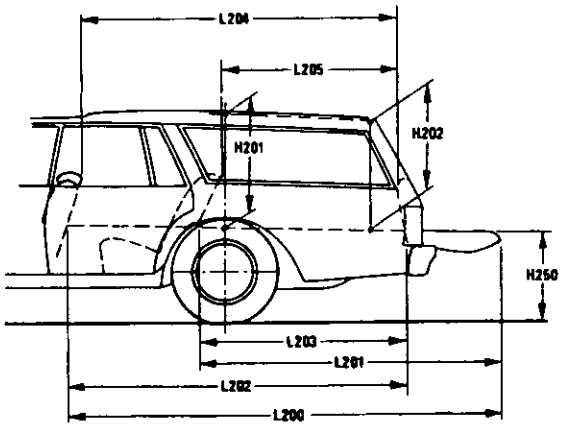
## Interior Car And Body Dimensions – Key Sheet

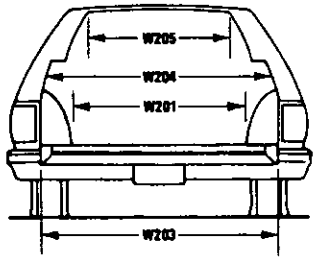
### Third Seat



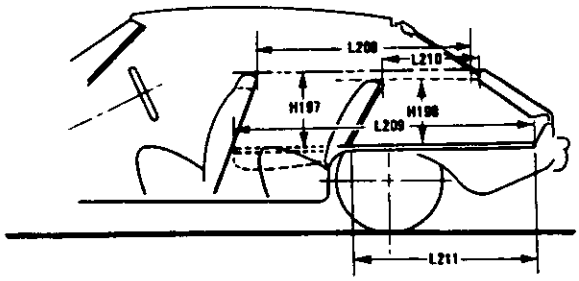




### Cargo Space




### 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 cenerline.

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 the 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. Mesured 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 he 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:

$$\frac{W4 \times H201 \times L204}{1728} = ft^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = m^3 \text{ (cubic meter)}$$

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:

$$\frac{L506 \times W500 \times H503}{1728} = ft^3$$

Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = m^3 \text{ (cubic meter)}$$

V6 TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = ft^3$$

Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = m^3 \text{ (cubic meter)}$$

V8 HIDDEN LUGGAGE CAPACITY–REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.

V10 STATION WAGON CARGO VOLUME INDEX.
Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = ft^3$$

Measured in mm:

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

**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:

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

Measured in mm:

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

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:

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

Measured in mm:

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

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

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