

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1994

| | | | |
|-----------------|---|-----------------|---------|
| Manufacturer | NEW UNITED MOTOR MFG., INC. (NUMMI) | Vehicle Line | |
| Mailing Address | GENERAL MOTORS CORPORATION CHEVROLET CENTRAL OFFICE 30007 VAN DYKE WARREN, MI 48090-9065 | Geo PRIZM | |
| | | Issued | Revised |
| | | SEPTEMBER, 1993 | |

Direct questions concerning these specifications to the manufacturer listed above.

The information contained herein is prepared, distributed by, and is solely the responsibility of the vehicle manufacturing company to whose products it relates. This specification form was developed by the vehicle manufacturing companies under the auspices of the American Automobile Manufacturers Association.

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

MVMA

Motor Vehicle Manufacturers Association
of the United States, Inc.

Blank Forms Provided by Technical Affairs Division

MVMA Specifications

METRIC (U.S. Customary)

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NOTE:

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

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Vehicle Origin

| | |
|--|--------------------------|
| Design & development (company) | Toyota Motor Corporation |
| Where built (country) | U.S.A. |
| Authorized U.S. Sales marketing representative | Chevrolet/Geo |

Vehicle Models

| Model Description & Drive (FWD/RWD/AWD/4WD)* | Make, Vehicle Models, Series, Body Type (Mfr's Model Code) | No. of Designated Seating Positions (Front/Rear) | Max. Trunk/Cargo Load-Kilograms (Pounds) | EPA Fuel Economy (City/Hwy) |
|---|--|--|--|-----------------------------|
| Geo PRIZM 4-Door Notchback Sedan (FWD) | 1SK19 | 5 (2/3) | 45 (100) | M/T TBD A/T TBD |
| Geo PRISM LSi 4-Door Notchback Sedan (FWD) | 1SK19 | 5 (2/3) | 45 (100) | M/T TBD A/T TBD |

* FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive

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METRIC (U.S. Customary) Power Teams

SAE J1349 Net bhp (brake hrspwr) and Net Torque corrected to 77 deg. F / 25 deg. C and 29.81 in. Hg/100 kPa atmos. press.

| | | A | B | C | D | |
|--|---|-------------------------------------|------------------------------|--------------------------------|------------------------------|--------------------|
| E N G I N E | Engine Code | L01 | L01 | LV6 | LV6 | |
| | Displacement Liters (cu. in.) | 1.6 (97) | 1.6 (97) | 1.8 (108) | 1.8 (108) | |
| | Induction system (FI, Carb, etc.) | Multi-Port Fuel Injection | Multi-Port Fuel Injection | Multi-Port Fuel Injection | Multi-Port Fuel Injection | |
| | Compression ratio | 9.5:1 | 9.5:1 | 9.5:1 | 9.5:1 | |
| | SAE Net at RPM | Power kW (bhp) | 78 (105) @ 5800 | 78 (105) @ 5800 ** | 86 (115) @ 5600 | 86 (115) @ 5600 ** |
| | | Torque Newton meters (lb.ft.) | 136 (100) @ 4800 | 136 (100) @ 4800 | 156 (115) @ 2800 | 156 (115) @ 2800 |
| | Exhaust Single, dual | Single | Single | Single | Single | |
| T R A N S | Transmission/ Transaxle | Manual Transaxle 5-Speed | Auto Transaxle 3-Speed | Manual Transaxle 5-Speed | Auto Transaxle 4-Speed | |
| | Effective Final Drive/Axle Ratio (std. first) | 3.72 | 3.53 | 3.72 | 2.82 | |

** Horsepower for L01 for California is 75 (100) @ 5800;
 Horsepower for LV6 for California is 82 (110) @ 5600

| Series Availability | | Power Teams (A - B - C - D) | |
|-----------------------|-------|-----------------------------|----------|
| Model | Code | Standard | Optional |
| Geo PRIZM | | | |
| 4-Dr. Notchback Sedan | 1SK19 | A | B |
| Geo PRIZM LSi | | | |
| 4-Dr. Notchback Sedan | 1SK19 | A | B, C, D |
| | | | |
| | | | |
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MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

1.6 LITER L4 (97 CID)
 MULTI-PORT FUEL INJECTION RPO L01

ENGINE - GENERAL

| | | |
|--|--|---|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.) | Inline, Front, Transverse, DOHC Pent Roof | |
| Manufacturer | Toyota Motor Corporation | |
| No. of cylinders | 4 | |
| Bore | 81.0 mm (3.2 in.) | |
| Stroke | 77.0 mm (3.0 in.) | |
| Bore spacing (C/L to C/L) | 87.5 mm (3.4 in.) | |
| Cylinder block material & mass kg(lbs.)(machined) | Cast Iron, 31.3 (69.0) | |
| Cylinder block deck height | 191.0 mm (7.5 in.) | |
| Cylinder block length | 391.5 mm (15.4 in.) | |
| Deck clearance (minimum) (above or below block) | 0.00 mm | |
| Cyl. head material & mass kg (lbs.) | Aluminum Alloy, 11.0 (24.3) | |
| Cylinder head volume (cu.cm.)(cu.in.) | 33.7 (2.1) | |
| Cylinder liner material | Not Applicable | |
| Head gasket thickness (compressed) | 1.20 mm (.05 in.) | |
| Minimum combustion chamber total volume (cm. cu.)(cu. in.) | 51.8 (3.2) | |
| Cyl. no. system (front to rear)* | L. Bank 1-2-3-4 R. Bank | |
| Firing order | 1-3-4-2 | |
| Intake manifold material & mass kg(lbs.)** | Aluminum Alloy, 3.5 (7.7) | |
| Exh. manifold material & mass kg (lbs.)** | Cast Iron, 4.0 (8.8), Fed.; 8.7 (19.2), Calif. | |
| Knock sensor (number & location) | No | |
| Fuel required unleaded, diesel, etc. | Unleaded | |
| Fuel antiknock index (R + M) / 2 | 87 | |
| Engine mounts | Quantity | 4 |
| | Material and type (elastomeric, hydroelastic, hydraulic damper, etc.) | RH: Hydroelastic Others: Elastomeric |
| | Added isolation (sub-frame, crossmember, etc.) | FR: CTR Member; RR: Sub-frame; RH: RH Side Member; LH: LH Side Member |
| Total dressed engine mass (wt) dry *** | M/T: 120 kg. (264.6 lbs.), Fed.; 121 kg. (266.8 lbs.), Calif. A/T: 112 kg. (246.9 lbs.), Fed.; 113 kg. (249.1 lbs.), Calif. | |

Engine - Pistons

| | |
|--|---------------------------|
| Material & mass, g (weight, oz.) - piston only | Aluminum Alloy, 278 (9.8) |
|--|---------------------------|

Engine Camshaft

| | | |
|-----------------------------------|--|----------------------------|
| Location | Over Cylinder Head | |
| Material & mass kg (weight, lbs.) | Gray Cast Iron, Intake = 1.9 (.419) Exhaust = 2.1 (.462) | |
| Drive type | Chain/belt | Belt |
| | Width/pitch | 8.0/21.1 mm (.31/.831 in.) |

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

**Finished state.

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

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 Model Year 1994 Issued 9-93 Revised(*)

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Engine Description
 Engine Code

1.8 LITER L4 (108 CID)
 MULTI-PORT FUEL INJECTION RPO LV6

ENGINE - GENERAL

| | | |
|--|---|---|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.) | Inline, Front, Transverse, DOHC Pent Roof | |
| Manufacturer | Toyota Motor Corporation | |
| No. of cylinders | 4 | |
| Bore | 81.0 mm (3.2 in.) | |
| Stroke | 85.5 mm (3.4 in.) | |
| Bore spacing (C/L to C/L) | 87.5 mm (3.4 in.) | |
| Cyl block matl & mass kg(lbs.)(machined) | Cast Iron, 33.0 (72.8) | |
| Cylinder block deck height | 206.4 mm (8.1 in.) | |
| Cylinder block length | 391.5 mm (15.4 in.) | |
| Deck clearance (minimum) (above or below block) | 0.00 mm | |
| Cyl. head material & mass kg (lbs.) | Aluminum Alloy, 11.0 (24.3) | |
| Cylinder head volume cu. cm. (cu.in.) | 33.7 (2.1) | |
| Cylinder liner material | Not Applicable | |
| Head gasket thickness (compressed) | 0.56 mm (.022 in.) | |
| Minimum combustion chamber total volume cu. cm. (cu. in.) | 46.6 (2.8) | |
| Cyl. no. system (front to rear)* | L. Bank | 1-2-3-4 |
| | R. Bank | |
| Firing order | 1-3-4-2 | |
| Intake manifold matl & mass kg(lbs.) | ** | Aluminum Alloy, 3.1 (6.8) |
| Exh. manifold matl & mass kg (lbs.) ** | Cast Iron, 4.0 (8.8), Fed.; 8.7 (19.2), Calif. | |
| Knock sensor (number & location) | Yes | |
| Fuel required unleaded, diesel, etc. | Unleaded | |
| Fuel antiknock index (R + M) / 2 | 87 | |
| Engine mounts | Quantity | 4 |
| | Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.) | RH: Hydroelastic; Others: Elastomeric |
| | Added isolation (sub-frame, crossmember, etc.) | FR: CTR Member; RR: Sub-frame; RH: RH Side Member; LH: LH Side Member |
| Total dressed engine mass (wt) dry *** | M/T: 124 kg. (273.4 lbs.), Fed.; 125 kg. (275.6 lbs.), Calif. | |
| | A/T: 116 kg. (255.7 lbs.), Fed.; 117 kg. (257.9 lbs.), Calif. | |

Engine - Pistons

| | |
|--|---------------------------|
| Material & mass, g (weight, oz.) - piston only | Aluminum Alloy, 268 (9.5) |
|--|---------------------------|

Engine Camshaft

| | | |
|-----------------------------------|--|----------------------------|
| Location | Over Cylinder Head | |
| Material & mass kg (weight, lbs.) | Gray Cast Iron, Intake = 1.9 (.419) Exhaust = 2.1 (.462) | |
| Drive type | Chain/belt | Belt |
| | Width/pitch | 8.0/21.1 mm (.31/.831 in.) |

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

**Finished state.

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

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description
Engine Code

1.6 LITER L4 (97 CID)
 MULTI-PORT FUEL INJECTION RPO L01

Engine - Valve System

| | | |
|--------------------------------------|--------------------------|---------------------------|
| Hydraulic lifters (std., opt., n.a.) | Not Applicable | |
| Valves | Number intake/exhaust | 8/8 |
| | Head O.D. intake/exhaust | 31/24.5 mm (1.2/.964 in.) |

Engine - Connecting Rods

| | |
|---------------------------------------|---------------------------|
| Material & mass kg., (weight, lbs.)* | Forged Steel, 0.44 (0.97) |
| Length(axes centerline to centerline) | 122 mm (4.8 in.) |

Engine - Crankshaft

| | | |
|--|---------------------------|-----------------------------|
| Material & mass kg., (weight, lbs.)* | Forged Steel, 12.2 (26.9) | |
| End thrust taken by bearing (no.) | #3 | |
| Length & number of main bearings | 489 mm (19.3 in.), 5 | |
| Seal (material, one, two piece design, etc.) | Front | Synthetic Rubber, One Piece |
| | Rear | Synthetic Rubber, One Piece |

Engine - Lubrication System

| | |
|---|-----------------|
| Normal oil pressure kPa(psi) @ eng rpm | 294 (42.6)/6000 |
| Type oil intake (floating, stationary) | Stationary |
| Oil filter sys. (full flow, part, other) | Full Flow |
| Capacity of c/case, less filter-refill-L (qt) | 3.1 (3.3) |

Engine - Diesel Information

(NOT APPLICABLE)

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

Engine - Intake System

(NOT APPLICABLE)

| | |
|------------------------------|--|
| Turbo charger - manufacturer | |
| Super charger - manufacturer | |
| Intercooler | |

* Finished State

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METRIC (U.S. Customary)

Engine Description

1.8 LITER L4 (108 CID)
 MULTI-PORT FUEL INJECTION RPO LV6

Engine Code

Engine - Valve System

| | | |
|--------------------------------------|--------------------------|---------------------------|
| Hydraulic lifters (std., opt., n.a.) | | Not Applicable |
| Valves | Number intake/exhaust | 8/8 |
| | Head O.D. intake/exhaust | 31/24.5 mm (1.2/.964 in.) |

Engine - Connecting Rods

| | |
|---|---------------------------|
| Material & mass kg., (weight, lbs.)* | Forged Steel, 0.51 (1.12) |
| Length(axis centerline to centerline)mm | 132.5 mm (5.2 in.) |

Engine - Crankshaft

| | | |
|--|---------------------------|-----------------------------|
| Material & mass kg., (weight, lbs.)* | Forged Steel, 14.3 (31.5) | |
| End thrust taken by bearing (no.) | #3 | |
| Length & number of main bearings | 489 mm (19.3 in.), 5 | |
| Seal (material, one, two piece design, etc.) | Front | Synthetic Rubber, One Piece |
| | Rear | Synthetic Rubber, One Piece |

Engine - Lubrication System

| | |
|--|-----------------|
| Normal oil pressure kPa(psi) @ eng rpm | 294 (42.6)/6000 |
| Type oil intake (floating, stationary) | Stationary |
| Oil filter sys. (full flow, part, other) | Full Flow |
| Capacity of c/case, less filter-refill-L (qt.) | 3.5 (3.7) |

Engine - Diesel Information

(NOT APPLICABLE)

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

Engine - Intake System

(NOT APPLICABLE)

| | | |
|------------------------------|--|--|
| Turbo charger - manufacturer | | |
| Super charger - manufacturer | | |
| Intercooler | | |

* Finished State

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Engine Description
 Engine Code

1.6 LITER L4 (97 CID)
 MULTI-PORT FUEL INJECTION RPO L01

Engine - Cooling System

| | | |
|--|---|--|
| Coolant recovery system (std, opt, n.a.) | | Standard |
| Coolant fill location (rad., bottle) | | Radiator |
| Radiator cap relief valve pressure kPa (psi) | | 90 (13.1) |
| Circulation thermostat | Type (choke, bypass) | Bypass |
| | Starts to open @ deg's C(F) | 82 (179.6) |
| Water Pump | Type (centrifugal, other) | Centrifugal |
| | GPM 1000 pump rpm | 16 L/min. |
| | Number of pumps | 1 |
| | Drive (V-belt, other) | V-Belt |
| | Bearing type | Sealed |
| | Impeller material | Stainless Steel |
| Housing material | | Aluminum Alloy |
| By-pass recirculation type (inter., ext.) | | External |
| Cooling system capacity | With heater - L (qt.) | 6.0 (6.3), M/T; 5.9 (6.2), A/T |
| | With air conditioner-L(qt.) | 6.0 (6.3), M/T; 5.9 (6.2), A/T |
| | Opt. equip. specify-L(qt.) | Not Applicable |
| Water jackets full length of cycles, no) | | Yes |
| Water all around cylinder (yes, no) | | No |
| Water jackets open at head face (yes, no) | | No |
| Radiator core | Std., A/C, HD | Standard |
| | Type (cross-flow, etc.) | Vertical Flow |
| | Construction (fin & tube mechanical, braze, etc.) | Corrugated Fin |
| | Matl., mass kg (wgt., lbs.) | Aluminum Or Copper-Brass, 3.4 (7.5), M/T; 3.1 (6.8) or 5.3 (11.7), A/T |
| | Width | 701 mm (27.6 in.) or 699 mm (27.5 in.) |
| | Height | 348 mm (13.7 in.) or 350 mm (13.8 in.) |
| | Thickness | 27 mm (1.1 in.) |
| Fins per inch | | Pitch = 3.0 mm |
| Radiator end tank material | | Plastics |
| Fan | Std., elec., opt. | Electric |
| | Number of blades & type (flex, solid, material) | 5, Plastics |
| | Number & location (front, rear of radiator) | 1, Rear Of Radiator |
| | Diameter & projected width | 300/100 mm (11.8/3.9 in.) |
| | Ratio(fan to crnkshft.rev.) | Not Available |
| | Fan cutout type | Temperature Controlled |
| | Drive type (direct, remote) | Electric Motor |
| | RPM at idle (elec.) | 2180 |
| | Motor rating(wattage)(elec) | 80 |
| | Motor switch (type & location/elec.) | Thermo Switch Thermoster At Water Inlet |
| | Switch point (temp.,/ pressure/elec.) | 90 deg. C |
| Fan shroud (material) | | Plastics |

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

Engine Description

1.8 LITER L4 (108 CID)

Engine Code

MULTI-PORT FUEL INJECTION RPO LV6

Engine - Cooling System

| | | |
|---|--|--|
| Coolant recovery system (std, opt, n.a.) | | Standard |
| Coolant fill location (rad., bottle) | | Radiator |
| Radiator cap relief valve pressure kPa (psi) | | 90 (13.1) |
| Circulation thermostat | Type (choke, bypass) | Bypass |
| | Starts to open @ deg's C(F) | 82 (179.6) |
| Water Pump | Type (centrifugal, other) | Centrifugal |
| | GPM 1000 pump rpm | 16 L/min. |
| | Number of pumps | 1 |
| | Drive (V-belt, other) | V-Belt |
| | Bearing type | Sealed |
| | Impeller material | Stainless Steel |
| Housing material | | Aluminum Alloy |
| By-pass recirculation type (inter., ext.) | | External |
| Cooling system capacity | With heater - L (qt.) | 6.2 (6.6), M/T; 6.1 (6.4) or 6.2 (6.6), A/T |
| | With air conditioner-L(qt.) | 6.2 (6.6), M/T; 6.1 (6.4) or 6.2 (6.6), A/T |
| | Opt. equip. specify-L(qt.) | Not Applicable |
| Water jackets full length of cyl(yes,no) | | Yes |
| Water all around cylinder (yes, no) | | No |
| Water jackets open at head face (yes,no) | | No |
| Radiator core | Std., A/C, HD | Standard |
| | Type (cross-flow, etc.) | Vertical Flow |
| | Construction (fin & tube mechanical, braze, etc.) | Corrugated Fin |
| | Matl., mass kg (wgt., lbs.) | Aluminum Or Copper-Brass, 3.4 (7.5), M/T; 3.1 (6.8) or 5.3 (11.7), A/T |
| | Width | 701 mm (27.6 in.) or 699 mm (27.5 in.) |
| | Height | 348 mm (13.7 in.) or 350 mm (13.8 in.) |
| | Thickness | 27 mm (1.1 in.) |
| Fins per inch | | Pitch = 3.0 mm |
| Radiator end tank material | | Plastics |
| Fan | Std., elec., opt. | Electric |
| | Number of blades & type (flex, solid, material) | 5, Plastics |
| | Number & location (front, rear of radiator) | 1, Rear Of Radiator |
| | Diameter & projected width | 300/100 mm (11.8/3.9 in.) |
| | Ratio(fan to crnkshft.rev.) | - |
| | Fan cutout type | Temperature Controlled |
| | Drive type (direct, remote) | Electric Motor |
| | RPM at idle (elec.) | 2180 |
| | Motor rating(wattage)(elec) | 80 |
| | Motor switch (type & location/elec.) | Thermo Switch Thermoster At Water Inlet |
| | Switch point (temp./ pressure/elec.) | 90 deg. C |
| Fan shroud (material) | | Plastics |

MVMA Specifications

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Engine Description
 Engine Code

1.6 LITER L4 (97 CID)
 MULTI-PORT FUEL INJECTION RPO L01

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

| | | |
|---|--|---|
| Induction type: carburetor, fuel injection system, etc. | | Fuel Injection |
| Manufacturer | | NIPPONDENSO |
| Carburetor no. of barrels | | - |
| Idle A/F mix. | | Not Adjustable |
| Fuel Injection | Point of inj. (no.) | 4 |
| | Constant, pulse, flow | Pulse, Flow |
| | Control (elec., mech.) | Electronic |
| | Sys. press. kPa (psi) | 284 (41.2) |
| Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual | 700 |
| | Automatic | 700 |
| Intake manifold heat control (exhaust or water thermostatic or fixed) | | - |
| Air cleaner type | | Oiled Paper Type, 1 Element |
| Fuel filter (type/location) | | Paper Element 1 Piece Type At Left Side Of Engine Compartment |
| Fuel pump | Type (elec. or mech.) | Electric |
| | Location (eng., tank) | In Fuel Tank |
| | Press. range kPa (psi) | 284 (41.2) |
| | Flow rate at regulated pressure L (gal)/hr @ kPa (psi) | MIN. 80 (21)/hr @ 284 (41.2) |

Fuel Tank

| | | |
|----------------------------------|-----------------------|------------------------------|
| Capacity refill L (gallons) | | 50 (13.2) |
| Location (describe) | | Underside Of Rear Seat Floor |
| Attachment | | Banded & Bolts |
| Material & Mass kg (weight lbs.) | | Steel |
| Filler pipe | Location & material | Left Quarter Panel Steel |
| | Connection to tank | Rubber Hose |
| Fuel line (material) | | Steel |
| Fuel hose (material) | | Rubber |
| Return line (material) | | Steel |
| Vapor line (material) | | Steel |
| Extended range tank | Opt., n.a. | Not Applicable |
| | Capacity L (gallons) | " |
| | Location & material | " |
| | Attachment | " |
| Auxiliary tank | Opt., n.a. | Not Applicable |
| | Capacity L (gallons) | " |
| | Location & material | " |
| | Attachment | " |
| | Sictr switch or valve | " |
| Separate fill | | " |

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 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description

1.8 LITER L4 (108 CID)

Engine Code

MULTI-PORT FUEL INJECTION RPO LV6

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

| | | |
|---|--|---|
| Induction type: carburetor, fuel injection system, etc. | | Fuel Injection |
| Manufacturer | | NIPPONDENSO |
| Carburetor no. of barrels | | - |
| Idle A/F mix. | | Not Adjustable |
| Fuel Injection | Point of inj. (no.) | 4 |
| | Constant, pulse, flow | Pulse, Flow |
| | Control (elec., mech.) | Electronic |
| | Sys. press. kPa (psi) | 284 (41.2) |
| Idle spd.,-rpm (spec. neutral or drive and propane if used) | Manual | 700 |
| | Automatic | 700 |
| Intake manifold heat control (exhaust or water thermostatic or fixed) | | - |
| Air cleaner type | | Oiled Paper Type, 1 Element |
| Fuel filter (type/location) | | Paper Element 1 Piece Type At Left Side Of Engine Compartment |
| Fuel pump | Type (elec. or mech.) | Electric |
| | Location (eng., tank) | In Fuel Tank |
| | Press. range kPa (psi) | 284 (41.2) |
| | Flow rate at regulated pressure (L (gal)/hr @ kPa (psi)) | MIN. 80 (21)/hr. @ 284 (41.2) |

Fuel Tank

| | | |
|----------------------------------|-----------------------|------------------------------|
| Capacity refill L (gallons) | | 50 (13.2) |
| Location (describe) | | Underside Of Rear Seat Floor |
| Attachment | | Banded & Bolts |
| Material & Mass kg (weight lbs.) | | Steel |
| Filler pipe | Location & material | Left Quarter Panel Steel |
| | Connection to tank | Rubber Hose |
| Fuel line (material) | | Steel |
| Fuel hose (material) | | Rubber |
| Return line (material) | | Steel |
| Vapor line (material) | | Steel |
| Extended range tank | Opt., n.a. | Not Applicable |
| | Capacity L (gallons) | " |
| | Location & material | " |
| | Attachment | " |
| Auxiliary tank | Opt., n.a. | Not Applicable |
| | Capacity L (gallons) | " |
| | Location & material | " |
| | Attachment | " |
| | Slctr switch or valve | " |
| Separate fill | | " |

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

Engine Description
 Engine Code

1.6 LITER L4 (97 CID)
 MULTI-PORT FUEL INJECTION RPO L01

Vehicle Emission Control

| | | | |
|------------------------------|--|---|--|
| Exhaust Emission Control | Type (air injection, engine modifications, other) | | EFI + Oxygen Sensor + TWC, Fed.; EFI + Oxygen Sensor + TWC + EGR, Calif. |
| | Air injection | Pump or pulse | Not Applicable |
| | | Driven by | " |
| | | Air distribution (head, manifold, etc.,) | " |
| | | Point of entry | " |
| | Exhaust Gas Recirculation | Type (controlled flow, open orifice, other) | Controlled Flow, Calif. |
| | | Exhaust source | Cylinder Head Port, Calif. |
| | | Point of exh.inj. (spacer, carb., manifold, other) | Intake Manifold, Calif. |
| | Catalytic Converter | Type | TWC |
| | | Number of | 1, Fed.; 1+1, Calif. |
| Location(s) | | Forward Under Floor Area, Fed. & Calif.; Exhaust Manifold, Calif. | |
| Volume L (cu.in) | | 1.3 (79.6), Fed.; 1.5 (91.8), Calif. - Exhaust Manifold + 0.500 (Under Floor) | |
| Substrate type | | Monolith, Fed.; Metal Foil + Monolith, Calif. | |
| Noble metal type | | Platinum (Pt), Rhodium (Rh) | |
| Crankcase Emission Control | Type (ventilates to atmosphere, induction system, other) | | Induction System, Closed Type |
| | Energy source (manifold vacuum, carburetor, other) | | Manifold Vacuum |
| | Discharges to (intake manifold, other) | | Intake Manifold |
| | Air inlet (breather cap, other) | | Throttle Body |
| Evaporative Emission Control | Vapor vented to (crankcase, canister, other) | Fuel tank | Canister |
| | | Carburetor | - |
| | Vapor storage provision | | Charcoal 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 |
| Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs.) | | 1, Straight Thru; 2, Reverse Flow - Stainless Steel 2.0 (4.4), 5.0 (11.0) |
| Resonator no. & type | | - |
| Exhaust pipe | Branch o.d., wall thickness | - |
| | Main o.d., wall thickness | 48.6/2.0 mm (1.9/.079 in.), 48.6/1.5 mm (1.9/.059 in.), Fed 48.6/1.5 mm (1.9/.059 in.), Calif. |
| | Matl. & Mass kg (wght.lbs.) | Stainless Steel, 3.5 (7.7), Fed.; 3.3 (7.3), Calif. |
| Inter-mediate pipe | o.d. & wall thickness | 48.6/1.2 mm (1.9/.047 in.); 42.7/1.2 mm (1.7/.047 in.) |
| | Matl. & Mass kg (wght.lbs.) | Stainless Steel, 4.9 (10.8) |
| Tail pipe | o.d. & wall thickness | 42.7/1.2 mm (1.7/.047 in.), 48.6/1.0 mm (1.9/.039 in.) |
| | Matl. & Mass kg (wght.lbs.) | Stainless Steel, 6.5 (14.3) |

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description

1.8 LITER L4 (108 CID)

Engine Code

MULTI-PORT FUEL INJECTION RPO LV6

Vehicle Emission Control

| | | | |
|------------------------------|--|--|---|
| Exhaust Emission Control | Type (air injection, engine modifications, other) | | EFI + Oxygen Sensor + TWC, Fed.; EFI + Oxygen Sensor + TWC + EGR, Calif. |
| | Air injection | Pump or pulse | Not Applicable |
| | | Driven by | " |
| | | Air distribution (head, manifold, etc.) | " |
| | | Point of entry | " |
| | Exhaust Gas Recirculation | Type (controlled flow, open orifice, other) | Controlled Flow, Calif. |
| | | Exhaust source | Cylinder Head Port, Calif. |
| | | Point of exh.inj. (spacer, carb., manifold, other) | Intake Manifold, Calif. |
| | Catalytic Converter | Type | TWC |
| | | Number of | 1, Fed.; 1+1, Calif. |
| | | Location(s) | Forward Under Floor Area, Fed. & Calif.; Exhaust Manifold, Calif. |
| | | Volume L (cu.in) | 1.3 (79.6), Fed.; 1.5 (91.8), Calif.-Exhaust Manifold + 0.500 (Under Floor) |
| | | Substrate type | Monolith, Fed.; Metal Foil + Monolith, Calif. |
| Noble metal type | | Platinum (Pt), Rhodium (Rh) | |
| Crankcase Emission Control | Type (ventilates to atmosphere, induction system, other) | | Induction System, Closed Type |
| | Energy source (manifold vacuum, carburetor, other) | | Manifold Vacuum |
| | Discharges to (intake manifold, other) | | Intake Manifold |
| | Air inlt(breather cap, other) | | Throttle Body |
| Evaporative Emission Control | Vapor vented to (crankcase, canister, other) | Fuel tank | Canister |
| | | Carburetor | - |
| | Vapor storage provision | | Charcoal 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 |
| Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs.) | | 1, Straight Thru; 2, Reverse Flow - Stainless Steel 2.0 (4.4), 5.0 (11.0) |
| Resonator no. & type | | - |
| Exhaust pipe | Branch o.d., wall thickness | - |
| | Main o.d., wall thickness | 48.6/2.0 mm (1.9/.079 in.), 48.6/1.5 mm (1.9/.059 in.), Fed 48.6/1.5 mm (1.9/.059 in.), Calif. |
| | Matl. & Mass kg (wght.lbs.) | Stainless Steel, 3.5 (7.7), Fed.; 3.3 (7.3), Calif. |
| Inter-mediate pipe | o.d. & wall thickness | 48.6/1.2 mm (1.9/.047 in.); 42.7/1.2 mm (1.7/.047 in.) |
| | Matl. & Mass kg (wght.lbs.) | Stainless Steel, 4.9 (10.8) |
| Tail pipe | o.d. & wall thickness | 42.7/1.2 mm (1.7/.047 in.), 48.6/1.0 mm (1.9/.039 in.) |
| | Matl. & Mass kg (wght.lbs.) | Stainless Steel, 6.5 (14.3) |

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

1.6 LITER L4 (97 CID)
 MULTI-PORT FUEL INJECTION RPO L01

Transmissions/Transaxle (Std., Opt., N.A.)

| | |
|--|---------------------|
| Manual 4-speed (manufacturer/country) | Not Available |
| Manual 5-speed (manufacturer/country) | Standard, TMC/Japan |
| Manual 6-speed (manufacturer/country) | Not Available |
| Automatic (manufacturer/country) | Standard, TMC/Japan |
| Auto. overdrive (manufacturer/country) | Not Applicable |

Manual Transmission/Transaxle

| | | |
|-------------------------------------|------------------|--------------------------------------|
| Number of forward speeds | | 5 |
| Gear ratios | 1st | 3.545 |
| | 2nd | 1.904 |
| | 3rd | 1.310 |
| | 4th | 0.969 |
| | 5th | 0.815 |
| | 6th | - |
| | Reverse | 3.250 |
| Synchronous meshing (specify gears) | | All Forward Speeds |
| Shift lever location | | Floor |
| Trans. case mat'l. & mass kg (lbs)* | | Aluminum Die Cast, 37.5 (82.7) - Wet |
| Lubricant | Capacity L (pt.) | 2.6 (5.5) |
| | Type recommended | APT GL-3, GL-4, GL-5 |

Clutch (Manual Transmission)

| | | |
|---|--|--|
| Clutch manufacturer | | AISIN |
| Clutch type (dry, wet; single, multiple disc) | | Dry, Single, Diaphragm |
| Linkage (hyd., cable, rod, lever, other) | | Hydraulic |
| Max. pedal effort (nom. spring load) N (lbs.) | Depressed | 110 (24.7) |
| | Released | 110 (24.7) |
| Assist (spring, power/percent, nominal) | | 0 |
| Type pressure plate springs | | Diaphragm Spring |
| Total spring load (nominal) N (lbs.) | | 4200 (944.2) |
| Clutch facing | Facing mfg. & matl. coding | AKEBONO BRAKE |
| | Facing matl. & construction | Semi-Mold |
| | Rivets per facing | 16 |
| | Outside x inside dia. (nom.) | 212 x 140 mm (8.3 X 5.51 in.) |
| | Total eff. area sq cm(sq in) | 199 (30.8) |
| | Thickness (pressure plate side/fly wheel side) | 3.5 mm (.138 in.) |
| | Rivet depth (pressure plate side/fly wheel side) | 1.6/1.6 mm (.063/.063 in.) |
| Engagement cushion method | | Wave Spring Segments |
| Release bearing type & method lub. | | Self-Centering Ball Bearing With Permanent Lubrication |
| Torsional damping method, springs, hysteresis | | Single-Stage Torsional Rubber With Friction Washer |

* Includes shift linkage, lubricant, and clutch housing. If other specify.

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 8-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

1.8 LITER L4 (108 CID)
 MULTI-PORT FUEL INJECTION RPO LV6

Transmissions/Transaxle (Std., Opt., N.A.)

| | |
|--|--------------------------|
| Manual 4-speed (manufacturer/country) | Not Available |
| Manual 5-speed (manufacturer/country) | Standard, TMC/Japan |
| Manual 8-speed (manufacturer/country) | Not Available |
| Automatic (manufacturer/country) | Standard, AISIN AW/Japan |
| Auto. overdrive (manufacturer/country) | Not Applicable |

Manual Transmission/Transaxle

| | | |
|-------------------------------------|------------------|--------------------------------------|
| Number of forward speeds | | 5 |
| Gear ratios | 1st | 3.166 |
| | 2nd | 1.904 |
| | 3rd | 1.310 |
| | 4th | 0.969 |
| | 5th | 0.815 |
| | 6th | - |
| | Reverse | 3.250 |
| Synchronous meshing (specify gears) | | All Forward Speeds |
| Shift lever location | | Floor |
| Trans. case mat'l. & mass kg (lbs)* | | Aluminum Die Cast, 37.5 (82.7) - Wet |
| Lubricant | Capacity L (pt.) | 2.6 (5.5) |
| | Type recommended | APT GL-3, GL-4, GL-5 |

Clutch (Manual Transmission)

| | | |
|---|--|--|
| Clutch manufacturer | | AISIN |
| Clutch type (dry, wet; single, multiple disc) | | Dry, Single, Diaphragm |
| Linkage (hyd., cable, rod, lever, other) | | Hydraulic |
| Max. pedal effort (nom. spring load) N (lbs.) | Depressed | 120 (27.0) |
| | Released | 120 (27.0) |
| Assist (spring, power/percent, nominal) | | 0 W/ABS, 30 W/O ABS |
| Type pressure plate springs | | Diaphragm Spring |
| Total spring load (nominal) N (lbs.) | | 4400 (989.2) |
| Clutch facing | Facing mfr. & mat'l. coding | AKEBONO BRAKE |
| | Facing mat'l. & construction | Semi-Mold |
| | Rivets per facing | 16 |
| | Outside x inside dia. (nom.) | 212 x 140 mm (8.3 X 5.51 in.) |
| | Total eff. area sq cm (sq in) | 199 (30.8) |
| | Thickness (pressure plate side/fly wheel side) | 3.5 mm (.138 in.) |
| | Rivet depth (pressure plate side/fly wheel side) | 1.6/1.6 mm (.063/.063 in.) |
| Engagement cushion method | | Wave Spring Segments |
| Release bearing type & method lub. | | Self-Centering Ball Bearing With Permanent Lubrication |
| Torsional damping method, springs, hysteresis | | Single-Stage Torsional Rubber With Friction Washer |

* Includes shift linkage, lubricant, and clutch housing. If other specify.

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised

METRIC (U.S. Customary)

Engine Description
 Engine Code

1.6 LITER L4 (97 CID)
 MULTI-PORT FUEL INJECTION RPO L01

Automatic Transmission/Transaxle

| | | |
|--|-------------------------------------|---|
| Trade Name | | A131L |
| Type and special features (describe) | | 2-Mode, 3-Speed Hydraulically Controlled Planetary Gear Train With Lock-Up Clutch |
| Shift mechanics | | |
| Gear selector | Location (column, floor, other) | Floor |
| | Ltr./No. designation (e.g. PRND21) | P-R-N-D-2-L |
| | Shift interlock (yes, no, describe) | Yes |
| Gear ratios | 1st | 2.810 |
| | 2nd | 1.549 |
| | 3rd | 1.000 |
| | 4th | Not Applicable |
| | 5th | " |
| | 6th | " |
| | Reverse | 2.296 |
| Final drive ratio | | |
| Max. upshift vehicle speed - drive range km/h (mph) | | 113 (70.2) |
| Max. upshift engine speed RPM | | |
| Max. kickdown speed - drive range km/h (mph) | | 108 (67.1) |
| Min. overdrive speed km/h (mph) | | - |
| Torque converter | Type | |
| | Torus design | |
| | Number of elements | 3 Elements - 1st Stage, 2-Phases |
| | Max. ratio at stall | 2.3 |
| | Type of cooling (air, liquid) | Liquid |
| | Nominal diameter | 230mm (9.05 in.) |
| Capacity factor "K" | | - |
| Pump type | | |
| Lubricant | Capacity refill L (pt.) | 2.5 (5.3); Dryfill, 5.5 (11.6) |
| | Type recommended | ATF Dexron II |
| Oil cooler (std., opt., N.A., internal, external, air, liquid) | | In Radiator, Liquid |
| Trans. mass kg (lbs) & case matl.** | | 59.2 (130.5), Aluminum Die Cast |

All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

| | | |
|--|--|--|
| Desc. & type (part-time, full-time, 2/4 shift while moving, mech., elect., chain/gear, etc.) | | |
| Transfer | Manufacturer and model | |
| | Type and location | |
| Low-range gear ratio | | |
| System disconnect (describe) | | |
| Center differential | Type (bevel, planetary, w or w/o viscous bias, torsen, etc.) | |
| | Torque split(% frt/rear) | |

* Input speed / square root of torque.
 ** Dry weight including torque converter. If other, specify.

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary)

Engine Description

1.8 LITER L4 (108 CID)

Engine Code

MULTI-PORT FUEL INJECTION RPO LV6

Automatic Transmission/Transaxle

| | | |
|--|-------------------------------------|--|
| Trade Name | | A245E |
| Type and special features (describe) | | 2-Mode, 4-Speed Electronically Controlled Planetary Gear Train With Lock-Up Clutch |
| Shift mechanics | | |
| Gear selector | Location (column, floor, other) | Floor |
| | Ltr./No. designation (e.g. PRND21) | P-R-N-D-2-L |
| | Shift interlock (yes, no, describe) | Yes |
| Gear ratios | 1st | 3.643 |
| | 2nd | 2.008 |
| | 3rd | 1.296 |
| | 4th | 0.892 |
| | 5th | Not Applicable |
| | 6th | " |
| | Reverse | 2.977 |
| Final drive ratio | | |
| Max. upshift vehicle speed - drive range km/h (mph) | | 144 (89.5) |
| Max. upshift engine speed RPM | | |
| Max. kickdown speed - drive range km/h (mph) | | 139 (86.4) |
| Min. overdrive speed km/h (mph) | | 19 (11.8) |
| Torque converter | Type | |
| | Torus design | |
| | Number of elements | 3 Elements - 1st Stage, 2 Phases |
| | Max. ratio at stall | 2.3 |
| | Type of cooling (air, liquid) | Liquid |
| | Nominal diameter | 230 mm (9.05 in.) |
| Capacity factor "K" | | - |
| Pump type | | |
| Lubricant | Capacity refill L (pt.) | 3.3 (7.0); Dryfill, 7.6 (16.1) |
| | Type recommended | ATF Dexron II |
| Oil cooler (std., opt., N.A., internal, external, air, liquid) | | In Radiator, Liquid |
| Trans. mass kg (lbs) & case matl.** | | 71.8 (158.3), Aluminum Die Cast |

All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

| | | |
|--|--|--|
| Desc. & type (part-time, full-time, 2/4 shift while moving, mech., elect., chain/gear, etc.) | | |
| Transfer | Manufacturer and model | |
| | Type and location | |
| Low-range gear ratio | | |
| System disconnect (describe) | | |
| Center differential | Type (bevel, planetary, w or w/o viscous bias, torsen, etc.) | |
| | Torque split(% frt/rear) | |

* Input speed / square root of torque.

** Dry weight including torque converter. If other, specify.

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description

1.6 LITER L4 (97 CID)

Engine Code

MULTI-PORT FUEL INJECTION RPO L01

Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage)

| | | |
|---|----------------|-----------|
| Effic. final drv. ratio (or overall top gear ratio) | | A/T: 3.53 |
| Trnsfr ratio and method(chain,gear,etc) | | - |
| Front drive unit | Ring gear o.d. | - |
| | No. of teeth | A/T: 19 |
| | Pinion | A/T: 67 |
| | Ring gear | A/T: 67 |

Front Drive Unit

| | | |
|--|-------------------------|---|
| Description (integral to trans., etc.) | | Integral To Transmission |
| Limited slip differential (type) | | - |
| Drive pinion | Type | Helical Gear |
| | Offset | - |
| No. of differential pinions | | 2 |
| Pinion/differential | Adjustment (shim, etc.) | - |
| | Bearing adjustment | - |
| Driving wheel bearing (type) | | Double Row Angular Contact Ball Bearing |
| Lubricant | Capacity L (pt.) | 1.4 (3.0), A/T |
| | Type recommended | ATF Dexron II |

Axle Shafts - Front Wheel Drive

| | | | |
|---|--------------------------------|------------------------|--|
| Manufacturer and number used | | GM Saginaw, 2 | |
| Type (straight, solid bar, tubular, etc.) | Left | Solid Bar | |
| | Right | Solid Bar | |
| Outer diam. x length* x wall thickness | Manual transaxle | Left | 24.2 x 340.1 mm (.953 x 13.4 in.) |
| | | Right | 24.2 x 657.3 mm (.953 x 25.9 in.) |
| | Automatic transaxle | Left | 24.2 x 340.1 mm (.953 x 13.4 in.) |
| | | Right | 24.2 x 657.3 mm (.953 x 25.9 in.) |
| | Optional transaxle | Left | - |
| | | Right | - |
| Slip yoke | Type | - | |
| | Number of teeth | - | |
| | Spline o.d. | - | |
| Universal joints | Make and mfg. no. | Inner | GM Saginaw, 43047-02030; TMC 43403-12040 |
| | | Outer | GM Saginaw, 43405 - 02040, 02030; TMC 43405 - 12022, 12051 |
| | Number used | | 4, 2 Each Shaft |
| | Type, size, plunge | Inner | Tripot, Plunge |
| | | Outer | Rzeppa, Fixed |
| | Attach (u-bolt, clamp, etc.) | | Snap Ring |
| Bearing | Type (plain, anti-friction) | - | |
| | Lubrication (fitting, prepack) | - | |
| Drive taken through (torque tube, arms or springs) | | MacPherson Strut | |
| Torque taken through (torque tube, arms or springs) | | Engine Mounting System | |

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

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

Engine Description

1.8 LITER L4 (108 CID)

Engine Code

MULTI-PORT FUEL INJECTION RPO LV6

Axle Ratio and Tooth Combinations

(See 'Power Teams' for axle ratio usage)

| | | |
|---|----------------|-----------|
| Effec. final drv. ratio (or overall top gear ratio) | | A/T: 2.82 |
| Trnsfr ratio and method(chain,gear,etc) | | - |
| Front drive unit | Ring gear o.d. | - |
| | No. of teeth | A/T: 28 |
| | Pinion | A/T: 79 |
| | Ring gear | |

Front Drive Unit

| | | |
|--|-------------------------|---|
| Description (integral to trans., etc.) | | Integral To Transmission |
| Limited slip differential (type) | | - |
| Drive pinion | Type | Helical Gear |
| | Offset | - |
| No. of differential pinions | | 2 |
| Pinion/differential | Adjustment (shim, etc.) | - |
| | Bearing adjustment | - |
| Driving wheel bearing (type) | | Double Row Angular Contact Ball Bearing |
| Lubricant | Capacity L (pt.) | Included In Automatic Transmission |
| | Type recommended | ATF Dexron II |

Axle Shafts - Front Wheel Drive

| | | | |
|---|------------------------------|-----------------------------|---|
| Manufacturer and number used | | TMC, 2 | |
| Type (straight, solid bar, tubular, etc.) | Left | Solid Bar | |
| | Right | Solid Bar | |
| Outer diam. x length* x wall thickness | Manual transaxle | Left | 22.3 x 354.1 mm (.878 x 13.9 in.) |
| | | Right | 26.0 x 668.6 mm (1.0 x 26.3 in.) |
| | Automatic transaxle | Left | 22.3 x 354.1 mm (.878 x 13.9 in.) |
| | | Right | 26.0 x 668.6 mm (1.0 x 26.3 in.) |
| | Optional transaxle | Left | - |
| | | Right | - |
| Slip yoke | Type | - | |
| | Number of teeth | - | |
| | Spline o.d. | - | |
| Universal joints | Make and mfg. no. | Inner | GM Saginaw 43047 - 02030; TMC 43403 - 12040 |
| | | Outer | GM Saginaw 43405 - 02040, 02030; TMC 43405 - 12022, 12051 |
| | Number used | 4, 2 Each Shaft | |
| | Type, size, plunge | Inner | Tripot, Plunge |
| | | Outer | Rzeppa, Fixed |
| | Attach (u-bolt, clamp, etc.) | | Snap Ring |
| | Bearing | Type (plain, anti-friction) | - |
| Lubrication (fitting, prepack) | | - | |
| Drive taken through (torque tube, arms or springs) | | MacPherson Strut | |
| Torque taken through (torque tube, arms or springs) | | Engine Mounting System | |

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

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

PRIZM

PRIZM LSi

Suspension - General Including Electronic Controls

| | | | |
|---------------------------------|---|----------------------|---|
| Car leveling | Std./opt./not avail. | Not Available | |
| | Manual/automatic control | " | |
| | Type (air/hydraulic) | " | |
| | Primary/assist spring | " | |
| | Rear only/4 wheel leveling | " | |
| | Single/dual rate spring | " | |
| | Single/dual ride heights | " | |
| | Provision for jacking | " | |
| Shock absorber damping controls | Standard/option/not avail. | Not Available | |
| | Manual/automatic control | " | |
| | Number of damping rates | " | |
| | Type of actuation (manual/electric motor/air, etc.) | " | |
| | s n s o r s | Lateral acceleration | " |
| | | Deceleration | " |
| | | Acceleration | " |
| Road surface | | " | |
| Shock absorber (front & rear) | Type | Tube Double Acting | |
| | Make | Delco | |
| | Piston diameter | 32.0 mm (1.26 in.) | |
| | Rod diameter | 20.0 mm (.79 in.) | |

Suspension - Front

| | | | |
|----------------------|---|------------------------|--------------|
| Type and description | | MacPherson Strut | |
| Travel | Full jounce (define load condition) | 80 mm (3.1 in.) | |
| | Full rebound | 85 mm (3.35 in.) | |
| Spring | Type (coil, leaf, other & matl) | Coil, Alloy Steel | |
| | Insulators (type & matl) | Top And Bottom, Rubber | |
| | Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter) | See Page 11A. | |
| | Spring rate N/mm (lb./in.) | 21.6 (191.2) | 22.5 (199.2) |
| | Rate @ wheel N/mm (lb./in.) | 19.6 (173.5) | 20.6 (182.3) |
| Stabilizer | Type (link, inkless, frmless) | - | |
| | Matl. & O.D. bar/tube, wall thickness | - | |

Suspension - Rear

| | | | | |
|----------------------|--|-------------------------------|----------------------|--|
| Type and description | | MacPherson Strut | | |
| Travel | Full jounce (define load condition) | 85 mm (3.35 in.) | | |
| | Full rebound | 100 mm (3.93 in.) | | |
| Spring | Type (coil, leaf, other & matl) | Coil, Alloy Steel | | |
| | Size (Leaf: length & width; Coil: design height & i.d.; Bar length & diameter) | 320.5 x (128.6-88.6) | 325.5 x (128.5-88.5) | |
| | Spring rate N/mm (lb/in) | 18.6 (164.6) | | |
| | Rate @ wheel N/mm (lb/in) | 17.6 (155.8) | | |
| | Insulators (type & material) | Top & Bottom, Rubber | | |
| | If leaf | No. of leaves | - | |
| | | Shackle (comp or tens) | - | |
| Stabilizer | Type (link, inkless, frmless) | Link | | |
| | Matl. & O.D. bar/tube, wall thickness | Alloy Steel, 14 mm (.551 in.) | | |
| Track bar (type) | | | | |

MVMA Specifications

METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

Vehicle Line Geo PRIZM
Model Year 1994 Issued 9-93 Revised(*) _____

(1) Geo PRIZM

| BODYSTYLE | TRANSAXLE | RH | | LH | |
|-----------|-----------|---------------|---------------|---------------|---------------|
| | | W/O A/C | W/AC | W/O A/C | W/AC |
| Notchback | Manual | 310.0 x 127.9 | 316.5 x 127.9 | 316.5 x 127.9 | 323.0 x 127.9 |
| Notchback | Auto | 316.5 x 127.9 | 323.0 x 127.9 | 323.0 x 127.9 | 329.5 x 127.9 |

(2) Geo PRIZM LSI

| | | RH | | LH | |
|-----|------|---------------|---------------|---------------|---------------|
| | | W/O A/C | W/AC | W/O A/C | W/AC |
| All | Man | 323.0 x 127.9 | 330.0 x 127.9 | 330.0 x 127.9 | 336.5 x 127.9 |
| All | Auto | 330.0 x 127.9 | 336.5 x 127.9 | 336.5 x 127.9 | 343.5 x 127.9 |

MVMA Specifications

Vehicle Line PRIZM
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary)

Model Code/Description And/Or

Engine Code/Description

Brakes - Service

ALL MODELS

| | | | |
|---|-------------------------------------|---------------------------------------|---|
| Description | | | |
| Manufacturer and brake type (std., opt., n.a.) | Front (disc or drum) | AM BRAKE, Disc, Standard | |
| | Rear (disc or drum) | AM BRAKE, Drum, Standard | |
| Valving type(prop, delay, metering, other) | | P-Valve | |
| Power brake (std., opt., n.a.) | | Standard | |
| Booster type(rmt, intgrl, vac., hyd., etc.) | | Integral, Vacuum | |
| Vacuum | Source (inline, pump, etc.) | Inline | |
| | Reservoir (volume cu. in.) | Not Available | |
| | Pump-type | " | |
| Traction assist | Operational speed range | Not Available | |
| | Type (engine or brake intervention) | " | |
| Anti-lock device | Front/rear (std., opt., n.a.) | Front and Rear (Optional) | |
| | Manufacturer | General Motors Delco Chassis Division | |
| | Type (electronic, mech.) | Electronic | |
| | Number sensors or circuits | 4 | |
| | No. anti-lock hyd. circuits | 4 | |
| | Integral or add-on system | Add-On | |
| | Yaw control (yes, no) | Yes | |
| Hydraulic power source | | Electric Motor | |
| Effective area sq. cm. (sq. in.)* | | 187/230 | |
| Gross Lng area sq cm (sq in)** (F/R) | | 191/230 | |
| Swept area sq cm (sq in)*** (F/R) | | 1236/377 | |
| Rotor | Outer working diameter | F/R 255/N.A. | |
| | Inner working diameter | F/R 156/N.A. | |
| | Thickness | F/R 22/N.A. | |
| | Matl & type (vented/sld) | F/R Cast Iron, Vented/N.A. | |
| Drum | Diameter & width | F/R N.A./200 | |
| | Type and material | F/R N.A./Cast Iron | |
| Wheel cylinder bore | | 54.00/17.46 | |
| Master cylinder | Bore/stroke | F/R 20.6/28 (Normal), 22.2/28 (ABS) | |
| Pedal arc ratio | | 3.8 | |
| Line pressure at 445 N (100 lb.) pedal load kPa (psi) | | 11954 (Normal), 12794 (ABS) | |
| Lining clearance | | F/R Self Adjust/Self Adjust | |
| Brake lining | Front wheel | Bonded or riveted | Bonded |
| | | Rivet size | - |
| | | Manufacturer | NISSHINBO, AKEBONO, AISIN, SUMITOMO, BENDIX |
| | | Lining code ***** | - |
| | | Material | Molded Resin |
| | | **** Pri. or out-brd | 117 x 49 x 12 mm (4.6 x 1.9 x .472 in.) |
| | | Size Sec. or in-brd | 117 x 49 x 12 mm (4.6 x 1.9 x .472 in.) |
| | Shoe thcknss.(no lng) | 5.5 | |
| | Rear wheel | Bonded or riveted | Bonded |
| | | Manufacturer | NISSHINBO, AKEBONO |
| | | Lining code ***** | - |
| | | Material | Molded Resin |
| | | **** Pri. or out-brd | 192 x 30 x 4 mm (7.56 x 1.18 x .157 in.) |
| | | Size Sec. or in-brd | 192 x 30 x 4 mm (7.56 x 1.18 x .157 in.) |
| Shoe thcknss (no lng) | | 1.6 mm (.063 in.) | |

* 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 circum.)
 (Disc brake: Square of Outer Working Dia. - 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 for formulation designation and coefficient of friction classification.

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

PRIZM

PRIZM LSi

Tires And Wheels (Standard)

| | | | | |
|---------------|---|---------------------------|-------------------------|---------------------|
| Tires | Size (service description) | | P175/65R14 81S | P185/65R14 85S |
| | Type (bias, radial, etc.) | | Radial, Steel | |
| | Inflation pressure (cold) for recommended max. vehicle load | Front kPa (psi) | 210 (30.5) | |
| | | Rear kPa (psi) | 210 (30.5) | |
| | Rev/mile—at 70 km/h(45mph) | | 911 | 895 |
| Wheels | Type & material | | Steel | |
| | Rim (size & flange type) | | 14 x 5 1/2J | |
| | Wheel offset | | 45.0 mm (1.77 in.) | |
| | Attachment | Type (bolt or stud & nut) | Stud & Nut | |
| | | Circle diameter | 100.0 mm (3.94 in.) | |
| Number & size | | 4-M12 x 1.5 | | |
| Spare | Tire and wheel | | T115/70D14, 14 x 4T | T135/70D15, 15 x 4T |
| | Storage position & location (describe) | | Flat In Trunk Room Well | |

Tires And Wheels (Optional)

| | | |
|--|--|---------------------|
| Tire size (service description) | | P185/65R14 85S |
| Type (bias, radial, steel, nylon, etc.) | | Radial, Steel |
| Wheel (type & material) | | Aluminum |
| Rim (size, flange type and offset) | | 14 x 5 1/2JJ, 45 |
| Tire size (service description) | | |
| Type (bias, radial, steel, nylon, etc.) | | |
| Wheel (type & material) | | |
| Rim (size, flange type and offset) | | |
| Tire size (service description) | | |
| Type (bias, radial, steel, nylon, etc.) | | |
| Wheel (type & material) | | |
| Rim (size, flange type and offset) | | |
| Tire size (service description) | | |
| Type (bias, radial, steel, nylon, etc.) | | |
| Wheel (type & material) | | |
| Rim (size, flange type and offset) | | |
| Spare tire and wheel size | | |
| (If configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position) | | T135/70D15, 15 x 4T |

Brakes - Parking

| | | |
|---------------------------------|--|-------------------|
| Type of control | | Hand Operate Type |
| Location of control | | Center Floor |
| Operates on | | Rear Brake |
| If separate from service brakes | Type (internal or external) | -- |
| | Drum diameter | -- |
| | Lining size (length x width x thickness) | -- |

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

PRIZM

PRIZM LSi

Steering

| | | | | |
|---|---|---------------------------------|----------------|------------------|
| Manual (std., opt., n.a.) | | Standard | Not Applicable | |
| Power (std., opt., n.a.) | | Optional | Standard | |
| Speed-sensitive (std., opt., n.a.) | | | | |
| 4-wheel steering (std., opt., n.a.) | | Not Available | | |
| Adjustable steering wheel/ column (tilt, telescope, other) | Type | Non Adjustable | Tilt | Non Adjustable |
| | Manufacturer (std., opt., n.a.) | TOYOTA or NASTEC | NASTEC | TOYOTA or NASTEC |
| | | Standard | Optional | Standard |
| Wheel diameter ** (W9) SAE J1100 | Manual | 380 mm (14.96 in.) | | |
| | Power | 380 mm (14.96 in.) | | |
| Turning diameter m (ft.) | Out-side front | Wall to wall (l. & r.) | 5.2 (17.1) | |
| | | Curb to curb (l. & r.) | 4.9 (16.1) | |
| | In-side rear | Wall to wall (l. & r.) | 2.6 (8.5) | |
| | | Curb to curb (l. & r.) | 2.6 (8.5) | |
| Scrub Radius * | | 8 | | |
| Manual | Gear | Type | R & P | |
| | | Manufacturer | KOYO | |
| | | Ratios | Gear | |
| | Overall | 22.7 | | |
| | No. wheel turns(stop to stop) | | 4.09 | |
| Power | Type (coaxial, elec. hyd., etc.) | | Integral | |
| | Manufacturer | | TKS | |
| | Gear | Type | R & P | |
| | | Ratios | Gear | |
| | | Overall | 18.1 | |
| Pump (drive) | | V-Ribbed Belt | | |
| No. wheel turns(stop to stop) | | 3.27 | | |
| Linkage | Type | | Ackermann | |
| | Location (front or rear of wheels, other) | | Rear Of Wheels | |
| | Tie Rods (one or two) | | 2 | |
| Steering axis | Inclination at camber (deg.) | | 12 deg. 40' | |
| | Bear-ings (type) | Upper | Ball Bearing | |
| | | Lower | Ball Joint | |
| | | Thrust | - | |
| Steering spindle/knuckle & joint type | | MacPherson Strut And Ball Joint | | |

* The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.
 ** See Page 22.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised _____

Model Code/Description And/Or
 Engine Code/Description

ALL MODELS

Wheel Alignment

| | | | |
|--------------------------------|------------------|---------------------------------|--------------------|
| Front wheel at curb mass (wt.) | Service checking | Caster (deg.) | 1 deg. 20' +/- 45' |
| | | Camber (deg.) | -10' +/- 45' |
| | | Toe-in outside track - mm (in.) | 1 +/- 2 |
| | Service reset* | Caster (deg.) | 1 deg. 20' +/- 30' |
| | | Camber (deg.) | -10' +/- 30' |
| | | Toe-in - mm(in.) | 1 +/- 1 |
| Periodic M.V. in-spection | Caster (deg.) | Not Available | |
| | Camber (deg.) | " | |
| | Toe-in - mm(in.) | " | |
| Rear wheel at curb mass (wt.) | Service checking | Camber (deg.) | -55' +/- 45' |
| | | Toe-in outside track - mm (in.) | 3 +/- 2 |
| | | Toe-in - mm(in.) | 3 +/- 1 |
| | Service reset* | Camber (deg.) | -55' +/- 30' |
| | | Toe-in - mm(in.) | 3 +/- 1 |
| | | Toe-in - mm(in.) | " |

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

Electrical - Instruments and Equipment

| | | |
|--|---|---|
| Speedometer | Type (analog, digital, std., opt.) | Analog |
| | Trip odometer (std., opt., n.a.) | Standard |
| Head-up display | Std., opt., not avail. | Not Available |
| | Type - Secondary, Opto-electronic | " |
| | Speedometer | Digital |
| | Status/warn. indicators - Turn signals, high beam, low fuel, check gauges | " |
| | Brightness control | Day/night mode, adj. |
| EGR maintenance indicator | | - |
| Charge indicator | Type | Telltale Lamp |
| | Warning device (light, audible) | Light |
| Temperature indicator | Type | Electric Gauge |
| | Warning device | Not Available |
| Oil pressure indicator | Type | Telltale Lamp |
| | Warning device | Light |
| Fuel indicator | Type | Electric Gauge |
| | Warning device | Light |
| Wind-shield wiper | Type (standard) | Electric 2-Speed And Mist |
| | Type (optional) | Electric 2-Speed With Adjustable Intermittent |
| | Blade length | LH = 500 mm; RH = 450 mm |
| | Swept area sq cm (sq in) | 6390 |
| Wind-shield washer | Type (standard) | Standard Electric Motor |
| | Type (optional) | - |
| | Fluid level indicator | Not Available |
| Rear window wiper, wiper/washer (std., opt., n.a.) | | Not Available |
| Horn | Type | Electric Vibration |
| | Number used | 1 |
| Other | | |

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Code/Description

1.6 LITER L4 (97 CID)
 MULTI-PORT FUEL INJECTION RPO L01

Electrical - Supply System

| | | |
|------------|----------------------------|---|
| Battery | Manufacturer | Delco Remy |
| | Model, std., (opt.) | 55D 23L |
| | Voltage | 12 |
| | Amps at 0 deg F cold crnk | 356 |
| | Minutes-reserve capacity | 99 |
| | Amps/hrs. - 20 hr. rate | 60 |
| | Location | Left Front Of Engine Compartment |
| Alternator | Manufacturer | DELCO-REMY, Opt.; NIPPONDENSO - TENNESSEE |
| | Rating (idle/max. rpm) | AC 70A |
| | Ratio (alt. crank/rev.) | 2.364 |
| | Output at idle (rpm, park) | -- |
| | Optional (type & rating) | -- |
| Regulator | Type | IC Type |

Electrical - Starting System

| | | |
|-------------|-----------------------------------|-----------------------|
| Motor | Manufacturer | NIPPONDENSO TENNESSEE |
| | Current drain deg C (F) | - |
| | Power rating kw (hp) | 1.4 |
| Motor drive | Engagement type | Solenoid Shift |
| | Pinion engages from (front, rear) | Front |

Electrical - Ignition System

| | | | |
|-------------|--|--------------------|-------|
| Type | Electronic (std, opt, n.a.) | Standard | |
| | Other (specify) | Not Applicable | |
| Coil | Manufacturer | NIPPONDENSO | |
| | Model | - | |
| | Current | Engine stopped - A | 0 A |
| | | Engine idling - A | 0.5 A |
| Spark plug | Manufacturer | NIPPONDENSO, NGK | |
| | Model | K16R-U, BKR5EYA | |
| | Thread (mm) | 14 mm (.551 in.) | |
| | Tightening torque Newton meters (lb. ft.) | 17.6 (23.9) | |
| | Gap | 0.8 mm (.031 in.) | |
| | Number per cylinder | 1 | |
| Distributor | Manufacturer | NIPPONDENSO | |
| | Model | - | |

Electrical - Suppression

| | | |
|------------------|--|---|
| Locations & type | Flame Sprayed Distributor Rotor, High Resistance High Tension Cord, High Resistance Spark Plug | Ceramic Distributor Rotor High Resistance High Tension Cord, High Resistance Spark Plug |
|------------------|--|---|

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Code/Description

1.8 LITER L4 (108 CID)
 MULTI-PORT FUEL INJECTION RPO LV6

Electrical - Supply System

| | | |
|------------|----------------------------|---|
| Battery | Manufacturer | Delco Remy |
| | Model, std., (opt.) | 55D 23L |
| | Voltage | 12 |
| | Amps at 0 deg F cold crnk | 356 |
| | Minutes-reserve capacity | 99 |
| | Amps/hrs. - 20 hr. rate | 60 |
| | Location | Left Front Of Engine Compartment |
| Alternator | Manufacturer | DELCO-REMY, Opt.; NIPPONDENSO - TENNESSEE |
| | Rating (idle/max. rpm) | AC 70A |
| | Ratio (alt. crank/rev.) | 2.364 |
| | Output at idle (rpm, park) | -- |
| | Optional (type & rating) | -- |
| Regulator | Type | IC Type |

Electrical - Starting System

| | | |
|-------------|-----------------------------------|-----------------------|
| Motor | Manufacturer | NIPPONDENSO TENNESSEE |
| | Current drain deg C (F) | - |
| | Power rating kw (hp) | 1.4 |
| Motor drive | Engagement type | Solenoid Shift |
| | Pinion engages from (front, rear) | Front |

Electrical - Ignition System

| | | | |
|-------------|---|--------------------|-------|
| Type | Electronic (std, opt, n.a.) | Standard | |
| | Other (specify) | Not Applicable | |
| Coil | Manufacturer | NIPPONDENSO | |
| | Model | - | |
| | Current | Engine stopped - A | 0 A |
| | | Engine idling - A | 0.5 A |
| Spark plug | Manufacturer | NIPPONDENSO, NGK | |
| | Model | K16R-U, BKR5EYA | |
| | Thread (mm) | 14 mm (.551 in.) | |
| | Tightening torque Newton meters (lb. ft.) | 17.6 (23.9) | |
| | Gap | 0.8 mm (.031 in.) | |
| | Number per cylinder | 1 | |
| Distributor | Manufacturer | NIPPONDENSO | |
| | Model | - | |

Electrical - Suppression

| | | |
|------------------|--|---|
| Locations & type | Flame Sprayed Distributor Rotor, High Resistance High Tension Cord, High Resistance Spark Plug | Ceramic Distributor Rotor High Resistance High Tension Cord, High Resistance Spark Plug |
|------------------|--|---|

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised

METRIC (U.S. Customary)

Model Code/Description

ALL MODELS

Body

| | |
|-------------------------------|---|
| Structure | Monocoque |
| Bumper system front - rear | Front: P.P. Facia, Energy Absorber Foam And Reinforcement Rear: Same As Front. |
| Anti-corrosion treatment | Extensive Use Of Galvanealed Steel Sheet And Double-Layered Zinc-Iron Alloy Coated Steel Sheet, PVC Sealer, Full Dip Pretreatment Cation ED, PVC Under Coat, Chip Resistant Coat. |

Body - Miscellaneous Information

| | | |
|---|---|--|
| Type of finish (lacquer, enamel, other) | Enamel | |
| Hood | Material & mass | Steel, 14.5 |
| | Hinge location (front, rear) | Rear |
| | Type (counterbalance, prop) | Prop |
| | Release control (int., ext.) | Internal |
| Trunk lid | Material & mass | Steel, 11.3 |
| | Type (counterbalance, other) | Counterbalance |
| Hatch-back lid | Internal release control (elec., mech., n.a.) | Mechanical |
| | Material & mass | - |
| | Type (counterbalance, other) | - |
| Tailgate | Internal release control (elec., mech., n.a.) | - |
| | Material & mass | - |
| | Type (drop, lift, door) | - |
| Vent window control (crank, friction, pivot, power) | Front | - |
| | Rear | - |
| Window regulator type (cable, tape, flex drive, etc.) | Front | Cable |
| | Rear | Arm & Sector Gear |
| Seat cushion type (e.g., 80/40, bucket, bench wire, foam, etc.) | Front | Panel Frame + Spring + Foam Pad |
| | Rear | Wire Frame + Foam Pad |
| | 3rd seat | - |
| Seat back type (e.g., 80/40, bucket, bench, wire, foam, etc.) | Front | Pipe Frame + Spring + Foam Pad |
| | Rear | Wire Frame + Foam Pad, Pipe Frame + Panel Frame + Foam Pad (LSI) |
| | 3rd seat | - |

Frame

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

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary)

Model Code/Description

ALL MODELS

Restraint System

| Seating Position | | | Left | Center | Right |
|------------------|---|-------------|--------------------------|------------------|--------------------------|
| Active | Type & description (lap & shoulder belt, lap belt, etc.) | First seat | 3-Point ELR/Standard | Not Applicable | 3-Point ALR-ELR/Standard |
| | | Second seat | 3-Point ALR-ELR/Standard | 2-Point/Standard | 3-Point ALR-ELR/Standard |
| | Standard/optional | Third seat | Not Applicable | Not Applicable | Not Applicable |
| Passive | Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt) | First seat | Air Bag/Standard | Not Applicable | Air Bag/Standard |
| | | Second seat | Not Applicable | Not Applicable | Not Applicable |
| | Standard/optional | Third seat | Not Applicable | Not Applicable | Not Applicable |

Glass

| | SAE Ref No | |
|---|------------|--------------------------|
| Windshield glass exposed surface area sq. cm. (sq. in.) | S1 | 8410 (1303.6) |
| Side glass exposed surface area sq. cm. (sq. in.) - total 2-sides | S2 | 10880 (1686.4) |
| Backlight glass exposed surface area sq. cm. (sq. in.) | S3 | 7230 (1120.7) |
| Total glass exposed surface area sq. cm. (sq. in.) | S4 | 26520 (4110.6) |
| Windshield glass (type/thickness) | | Curved-Laminated, 4.7 mm |
| Side glass (type/thickness) | | Curved-Tempered, 3.5 mm |
| Backlight glass (type/thickness) | | Curved-Tempered, 3.5 mm |
| Tinted (yes/no, location) | | Yes |
| Solar control (yes/no, coated/batched, location) | | Yes |

Headlamps

| | |
|--|---------------------------|
| Description - sealed beam, halogen, replaceable bulb, etc. | Replaceable, Halogen |
| Shape | Aerodynamic-Flush Mounted |
| Lo-beam type (2A1, 2B1, 2C1, etc.) | Not Applicable |
| Quantity | 2 |
| Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.) | Not Applicable |
| Quantity | 2 |

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary)

Engine Code/Description

ALL MODELS

Climate Control System

| | | |
|---|--------------------------|--|
| Air conditioning (std., opt., man., auto.) | | Manual - Optional Automatic - Not Available |
| Condenser | Type | Corrugated Fin and Serpentine Tube Type |
| | Eff. face area (sq. mm.) | 239414 |
| | Fins per inch | Pitch = 3.6 mm |
| Evaporator | Type | Drawn Cup Type |
| | Eff. face area (sq. mm.) | 52250 |
| | Fins per inch | Pitch = 4.0 mm |
| Heater Core | Material | Copper-Brass |
| | Eff. face area (sq. mm.) | 30690 |
| | Fins per inch | Pitch = 1.8 mm |
| Compressor | Type | 10 PA 15 |
| | Displacement (cc) | 155.3 |
| | Manufacturer | NIPPONDENSO (U.S.A.) |
| | A/C pulley ratio | 0.93 |
| Accumulator | Type | - |
| | Height (mm.) | - |
| | Diameter (mm.) | - |
| Receiver | Type | Normal |
| | Height (mm.) | 187 mm |
| | Diameter (mm.) | 48 mm |
| Refrigerant control (CCOT, TVS, etc.) | | - |
| Heater water valve (yes / no) | | Yes |
| Refrigerant (R - 12, R - 134a, etc.) | | R-134a |
| Charge level (lbs. - oz.) | | 700 +/- 50 g. |
| Cold engine lockout switch (yes / no) | | - |
| Wide open throttle cutout switch (yes / no) | | - |

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Model Code/Description

ALL

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

| | | |
|------------|---|---|
| | Clock (digital, analog) | With Radio, Optional |
| | Compass / thermometer | Not Available |
| | Console (floor, overhead) | Floor |
| | Defroster, electric windshield | Standard |
| | Defroster, electric backlight | Optional |
| Electronic | Diagnostic monitor (integrated, individual) | Not Available |
| | Instrument cluster (list instruments) | Not Available |
| | Keyless entry | " |
| | Tripminder (avg. spd. fuel) | " |
| | Voice alert (list items) | " |
| | Other | " |
| | Fuel door lock (remote, key, electric) | Remote |
| Lamps | Auto head on/off delay, dimming | Not Available |
| | Cornering | " |
| | Courtesy (map, reading) | Without Map Lamp, Standard; With Map Lamp, Optional |
| | Door lock, ignition | Not Available |
| | Engine compartment | " |
| | Fog | " |
| | Glove compartment | " |
| | Trunk | Without Trunk Lamp, Standard; With Trunk Lamp, Optional |
| | Illuminated entry system (list lamps, activation) | Not Available |
| Other | " | |
| Mirrors | Day / night (auto. man.) | |
| | L.H. (remote, pwr., heated) | Standard, Remote; Optional, Power |
| | R.H.(convex, rmt, pwr, htd) | Standard, Not Available; Optional, Convex Fix, Convex Power |
| | Visor vanity (RH/LH illum.) | - |
| | Navigation system (describe) | Not Available |
| | Prkg. brake-auto release (warn. light) | Not Available |

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

Model Code/Description

ALL MODELS

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

| | | | | |
|---|---|---|---|---------------|
| Power equipment | Deck lid(release, pull down) | | Not Available | |
| | Door locks (manual, auto., describe system) | | Optional (Manual) | |
| | Seats | 2 - 4 - 6 way, etc. | | Not Available |
| | | Reclining(R.H., L.H.) | | " |
| | | Memory (R.H., L.H., preset, recline) | | " |
| | | Support (lumbar, hip, thigh, etc.) | | " |
| | | Heated (R.H., L.H., other) | | " |
| | Side windows | | Optional | |
| | Vent windows | | Not Available | |
| | Rear windows | | " | |
| Radio systems | Antenna (location, whip, w/shield, power) | | Roof | |
| | Stan. | AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc. | Radioless | |
| | Opt. | | AM/FM MPX ETR AM/FM MPX ETR, With Cassette Deck AM/FM MPX ETR, With Cassette, CD | |
| | Speaker (number, location) | | Std. - 2, Front Doors; Opt. - 4, Front Doors + Rear Package Tray; Opt. - 6, 4 + Outside Mirror Brackets. | |
| Roof: open air or fixed (flip-up, sliding, 'T') | | | Optional, Sliding/Flip-Up | |
| Speed control device | | | Optional | |
| Speed warn. dev. (light, buzzer, etc.) | | | Not Available | |
| Tachometer (rpm) | | | 8000 | |
| Telephone system (describe) | | | Not Available | |
| Theft deterrent system | | | Not Available | |

Trailer Towing

| | | |
|---------------------------------|-----------|---------------|
| Towing capable | Yes / No | Yes |
| Engine/transmission/axle | Std / Opt | No |
| Tow class (I, II, III)* | Std / Opt | I (1500 lbs.) |
| Max. gross trailer wgt. (lbs.) | Std / Opt | 1500 |
| Max. trailer tongue load (lbs.) | Std / Opt | 150 |
| Towing package available | Yes / No | No |

* Class I - 2,000 lbs. Class II - 3,500 lbs. Class III - 5,000 lbs.

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for definitions

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

Model Code/Description

ALL MODELS

Width

SAE Ref. No.

| | | |
|----------------------------------|------|-------------------------------------|
| Tread (front) | W101 | 1460 (57.5) |
| Tread (rear) | W102 | 1450 (57.1) |
| Vehicle width | W103 | 1685 (66.3) |
| Body width at Sg RP (front) | W117 | 1677 (66.0) |
| Vehicle width (front doors open) | W120 | 3363 (132.4) |
| Vehicle width (rear doors open) | W121 | 3356 (132.1) |
| Tumble-home (deg.) | W122 | 24 |
| Outside mirror width | W410 | 928.6 (36.6), LH; 1865.9 (73.5), RH |

Length

| | | |
|-------------------------------|------|--------------|
| Wheelbase | L101 | 2465 (97.0) |
| Vehicle length | L103 | 4395 (173.0) |
| Overhang (front) | L104 | 885 (34.8) |
| Overhang (rear) | L105 | 1045 (41.1) |
| Upper structure length | L123 | 2660 (104.7) |
| Rear wheel C/L 'X' coordinate | L127 | 2465 (97.0) |

Height **

| | | | |
|-------------------------------------|---------|-------------|----|
| Passenger distribution (front/rear) | PD1,2,3 | | ** |
| Trunk/cargo load | | | ** |
| Vehicle height | H101 | 1355 (53.3) | |
| Cowl point to ground | H114 | 880 (34.6) | |
| Deck point to ground | H138 | 1010 (39.8) | |
| Rocker panel-front to ground | H112 | 180 (7.1) | |
| Rocker panel-rear to ground | H111 | 200 (7.9) | |
| Windshield slope angle (deg.) | H122 | 30.5 | |
| Backlight slope angle (deg.) | H121 | 25.5 | |

Ground Clearance **

| | | |
|---|------|-------------------------|
| Front bumper to ground | H102 | 175 (6.9) |
| Rear bumper to ground | H104 | 230 (9.1) |
| Bumper to ground front at curb mass (wt.) | H103 | 210 (8.3) |
| Bumper to ground rear at curb mass (wt.) | H105 | 250 (9.8) |
| Angle of approach (deg.) | H108 | 17.0 |
| Angle of departure (deg.) | H107 | 16.0 |
| Ramp breakover angle (deg.) | H147 | 14.0 |
| Axle differential to ground (front/rear) | H153 | 140 (5.5), Front |
| Min. running ground clearance | H156 | 120 (4.7) |
| Location of min. run. grd. clear. | | Front Lower Arm Bracket |

** All Vehicle Height And Ground Clearance 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.

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

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary) Vehicle Dimensions

See Key Sheets for Definitions

Model Code/Description

ALL MODELS

Front Compartment

SAE Ref. No.

| | | |
|--|-----|---|
| SgRP front, 'X' coordinate | L31 | 1340 (52.8) |
| Effective head room | H81 | 977.4 (38.5); With Sunroof - 938.5 (36.9) |
| Max. eff. leg room (accelerator) | L34 | 1059.6 (41.7) |
| SgRP to heel point | H30 | 259.9 (10.2) |
| SgRP to heel point | L53 | 877.2 (34.5) |
| Back angle (deg.) | L40 | 250 |
| Hip angle (deg.) | L42 | 97.9 |
| Knee angle (deg.) | L44 | 128.4 |
| Foot angle (deg.) | L46 | 80.5 |
| Design H-point front travel | L17 | 239.1 (9.4) |
| Normal driving & riding seat track trvl. | L23 | 239.1 (9.4) |
| Shoulder room | W3 | 1374 (54.1) |
| Hip room | W5 | 1303.7 (51.3) |
| *** Upper body opening to ground | H50 | 1225.7 (48.3) |
| Steering wheel maximum diameter* | W9 | 380 (15.0) |
| Steering wheel angle (deg.) | H18 | 25 deg. 09' |
| Accel. heel pt. to steer. whl. cntr | L11 | 420.9 (16.6) |
| Accel. heel pt. to steer. whl. cntr | H17 | 651.4 (25.6) |
| Undepressed floor covering thickness | H87 | 23.5 (.925) |

Front Compartment Int. Dim. Are Measured With The Seating Ref. Pt.

Rear Compartment

(SgRP) mm (1 Seat Adjuster Notch) Forward of Rearmost Seat Position.

| | | |
|------------------------------------|-----|---|
| SgRP point couple distance | L50 | 730 (28.7) |
| Effective head room | H83 | 924.4 (36.4); With Sunroof - 909.2 (35.8) |
| Min. effective leg room | L51 | 839.7 (33.1) |
| SgRP (second to heel) | H31 | 301.8 (11.9) |
| Knee clearance | L48 | -45.6 (-1.8) |
| Shoulder room | W4 | 1355.4 (53.4) |
| Hip room | W6 | 1378 (54.3) |
| *** Upper body opening to ground | H51 | 1237.3 (48.7) |
| Back angle (deg.) | L41 | 27 |
| Hip angle (deg.) | L43 | 85 |
| Knee angle (deg.) | L45 | 79 |
| Foot angle (deg.) | L47 | 111 |
| Depressed floor covering thickness | H73 | 5.9 (.232) |

Luggage Compartment

| | | |
|---------------------------------------|------|-------------|
| Usable luggage capacity [L (cu. ft.)] | V1 | 359 (12.68) |
| *** Liftover height | H195 | 670 (26.4) |

Interior Volumes (EPA Classification)

| | |
|-----------------------------------|-------------|
| Vehicle class | Compact Car |
| Interior volume index (cu. ft.)** | 101.0 |
| Trunk / cargo index (cu. ft.) | 12.7 |

* See page 14.

** Includes passenger and trunk / cargo index - see definition page 33.

*** EPA Loaded Vehicle Weight, Loading Conditions.

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

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary) Vehicle Dimensions

See Key Sheets for Definitions

Model Code/Description

4-DOOR NOTCHBACK

Station Wagon / MPV** - Third Seat

SAE Ref. No. (NOT APPLICABLE)

| | SAE Ref. No. | (NOT APPLICABLE) |
|-----------------------|--------------|------------------|
| Seat facing direction | SD1 | |
| SgRP couple distance | L85 | |
| Shoulder room | W85 | |
| Hip Room | W88 | |
| Effective leg room | L88 | |
| Effective head room | H88 | |
| SgRP to heel point | H87 | |
| Knee clearance | L87 | |
| Back angle (deg.) | L88 | |
| Hip angle (deg.) | L89 | |
| Knee angle (deg.) | L90 | |
| Foot angle (deg.) | L91 | |

Station Wagon / MPV** Cargo Space (NOT APPLICABLE)

| | SAE Ref. No. | (NOT APPLICABLE) |
|--|--------------|------------------|
| Cargo length (open front) | L200 | |
| Cargo length (open second) | L201 | |
| Cargo length (closed front) | L202 | |
| Cargo length (closed second) | L203 | |
| Cargo length at belt (front) | L204 | |
| Cargo length at belt (second) | L205 | |
| Cargo width (wheelhouse) | W201 | |
| Rear opening width at floor | W203 | |
| Opening width at belt | W204 | |
| Min. rear opening width above belt | W205 | |
| Cargo height | H201 | |
| Rear opening height | H202 | |
| Tailgate to ground height | H250 | |
| Front seat back to load floor height | H197 | |
| Cargo volume index cu. m. (cu. ft.) | V2 | |
| Hidden cargo vol. index cu. m. (cu. ft.) | V4 | |
| Cargo volume index-rear of 2-seat | V10 | |
| Cargo volume index** | V8 | |
| Cargo width at floor** | W500 | |
| Maximum cargo height** | H505 | |

Hatchback - Cargo Space (NOT APPLICABLE)

| | SAE Ref. No. | (NOT APPLICABLE) |
|--|--------------|------------------|
| Cargo length at front seatback height | L208 | |
| Cargo length at floor (front) | L209 | |
| Cargo length at second seatback height | L210 | |
| Cargo length at floor (second) | L211 | |
| Front seatback to load floor height | H197 | |
| Second seatback to load floor height | H198 | |
| Cargo volume index cu. m. (cu. ft.) | V3 | |
| Hidden cargo vol. index cu. m. (cu. ft.) | V4 | |
| Cargo volume index-rear of 2-seat | V11 | |

* EPA Loaded Vehicle Weight, Loading Conditions

** MPV - Multipurpose Vehicle

All Linear Dimensions Are In Millimeters (Inches)

MVMA Specifications

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

| | |
|----------------------------|------------|
| Model Code/ Description | ALL MODELS |
|----------------------------|------------|

Vehicle Fiducial Marks

| Fiducial Mark Number* | Define Coordinate Location |
|--------------------------|----------------------------|
|--------------------------|----------------------------|

| | |
|-------|---|
| Front | Center of outer installation hole for seat track of front floor crossmember (both sides). |
|-------|---|

| | |
|------|---|
| Rear | Center of seat belt anchorage hole in center floor. |
|------|---|

NOTE: Provide
3 of 4
Fiducial Mark
Locations

| | | |
|-------|------------|-------------------|
| Front | W21** | W5 + 81.5 mm |
| | L54** | L19 + 90.6 mm |
| | H82** | H10 + 75.4 mm |
| | *** H181** | 295 mm (11.6 in.) |
| | *** H183** | 270 mm (10.6 in.) |

| | | |
|------|------------|-------------------|
| Rear | W22** | W1 + 90 mm |
| | L55** | L32 + 10 mm |
| | H82** | H11 + 45 mm |
| | *** H182** | 375 mm (14.8 in.) |
| | *** H184** | 350 mm (13.8 in.) |

- * Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.
 - ** Reference - SAE Recommended Practice J1100 - Motor Vehicle Dimensions.
 - *** EPA Loaded Vehicle Weight, Loading Conditions
- All Linear Dimensions Are In Millimeters (Inches)

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Geo PRIZM

Model Year 1994 Issued 9-93 Revised _____

| Code | Model | VEHICLE MASS (weight) | | | | % PASS MASS DISTRIBUTION | | | | |
|--|-------------------|-----------------------|--------------|----------------|---------------------------|--------------------------|---------------|------|--------------|------|
| | | CURB MASS, kg. (lb.)* | | | SHIPPING MASS kg (lb) *** | ETWC** Code | PASS IN FRONT | | PASS IN REAR | |
| | | Front | Rear | Total | | | Front | Rear | Front | Rear |
| Geo PRIZM 4-Dr. Notchback Sedan | 1SK19 L01, M/T | 640 (1411) | 430 (948) | 1070 (2359) | 1038 (2288) | O | 50 | 50 | 16 | 84 |
| Geo PRIZM 4-Dr. Notchback Sedan | 1SK19 L01, A/T | 660 (1455) | 430 (948) | 1090 (2403) | 1058 (2332) | O | 50 | 50 | 16 | 84 |
| Geo PRIZM LSi 4-Dr. Notchback Sedan | 1SK19 LV6, M/T | 845 (1862) | 430 (948) | 1075 (2370) | 1043 (2299) | O | 50 | 50 | 16 | 84 |
| Geo PRIZM LSi 4-Dr. Notchback Sedan | 1SK19 LV6, A/T | 675 (1488) | 430 (948) | 1105 (2436) | 1073 (2365) | P | 50 | 50 | 16 | 84 |
| | | | | | | | | | | |
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* Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.
 ** ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certifications.
 Refer to ETWC code legend below for test weight class.

ETWC LEGEND

| | | | |
|----------|----------|----------|-----------|
| A = 1000 | I = 2000 | Q = 3000 | Y = 4000 |
| B = 1125 | J = 2125 | R = 3125 | Z = 4250 |
| C = 1250 | K = 2250 | S = 3250 | AA = 4500 |
| D = 1375 | L = 2375 | T = 3375 | BB = 4750 |
| E = 1500 | M = 2500 | U = 3500 | CC = 5000 |
| F = 1625 | N = 2625 | V = 3625 | DD = 5250 |
| G = 1750 | O = 2750 | W = 3750 | EE = 5500 |
| H = 1875 | P = 2875 | X = 3875 | FF = 5750 |

*** Shipping Mass (weight) = Curb Weight Less:

 32 (71)

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Geo PRIZM
 Model Year 1994 Issued 9-93 Revised _____

| | | Optional Equipment Differential Mass (weight)* | | | |
|------|----------------------|--|----------------|----------------|---------------------------------------|
| Code | Equipment | MASS, kg. (lb.) | | | Remarks Restrictions, Requirements |
| | | Front | Rear | Total | |
| | Air Conditioning | 21.1 (46.5) | 0 (0) | 21.1 (46.5) | |
| | Power Steering | 9.5 (20.9) | 0 (0) | 9.5 (20.9) | |
| | Radio | 4.4 (9.7) | .8 (1.8) | 5.2 (11.5) | |
| | Door Mirror | 1.6 (3.5) | .4 (.9) | 2.0 (4.4) | |
| | ABS | 7.7 (17.0) | 0 (0) | 7.7 (17.0) | |
| | Tilt Steering | 2.1 (4.6) | 0 (0) | 2.1 (4.6) | |
| | Power Window | 1.5 (3.3) | 2.2 (4.9) | 3.7 (8.2) | |
| | Electrical Door Dock | .3 (.7) | .5 (1.1) | .8 (1.8) | |
| | Sun Roof | 6.0 (13.2) | 8.0 (17.6) | 14.0 (30.8) | |
| | Cruise Control | 2.5 (5.5) | 0 (0) | 2.5 (5.5) | |
| | LSI Grade Package | .9 (2.0) | 12.5 (27.5) | 13.4 (29.5) | |
| | | | | | |
| | | | | | |
| | | | | | |

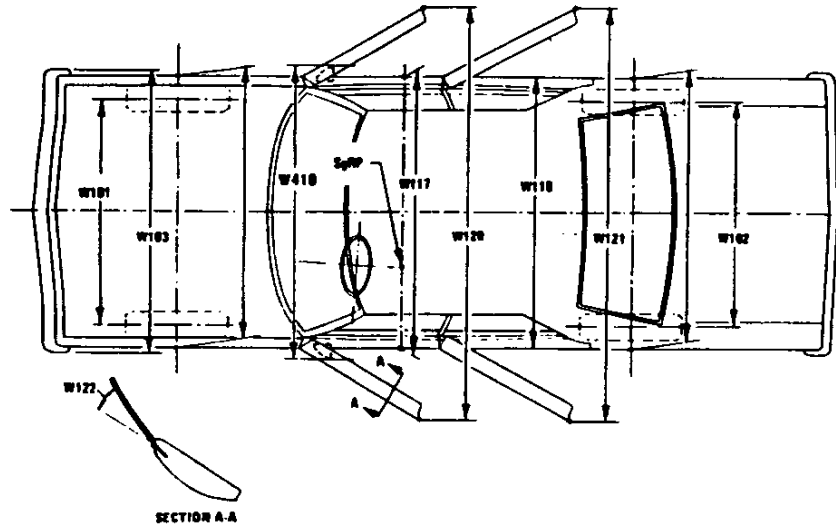
* Also see Engine - General Section for dressed engine mass (weight).

MVMA Specifications

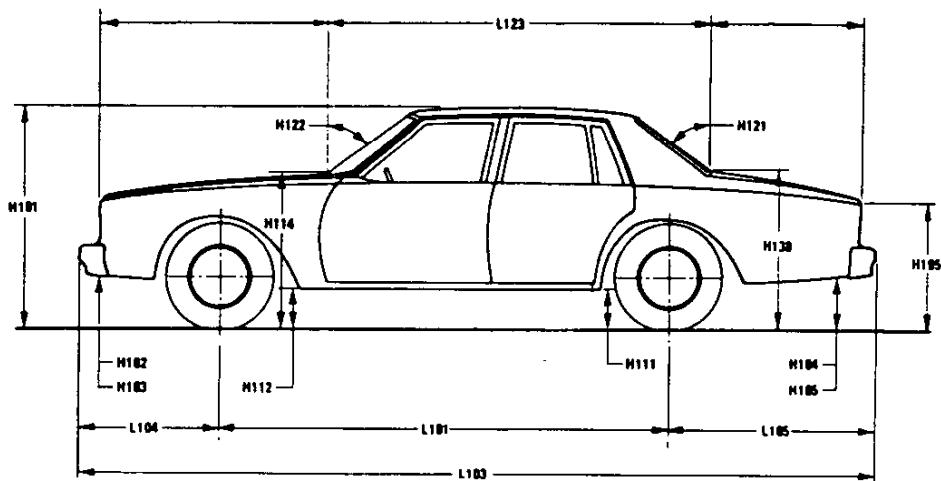
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions - Key Sheet

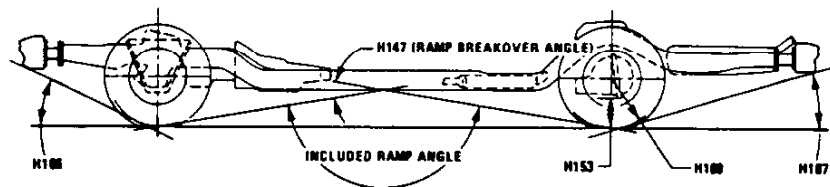
Exterior Width



Exterior Length & Height



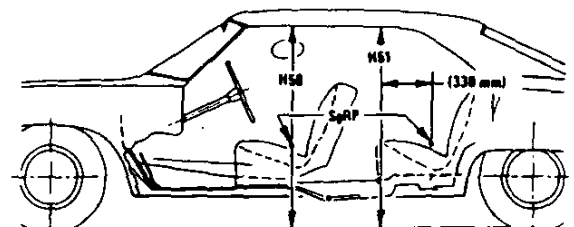
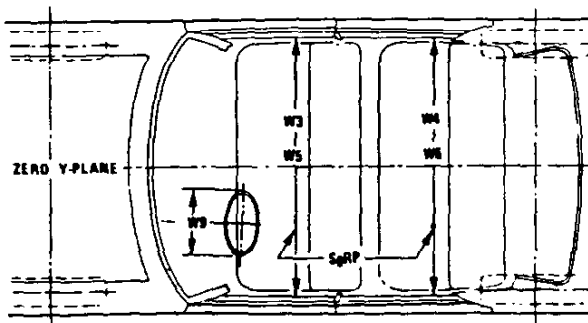
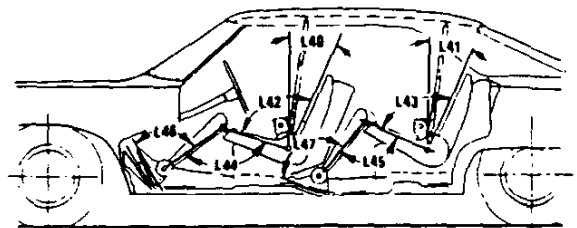
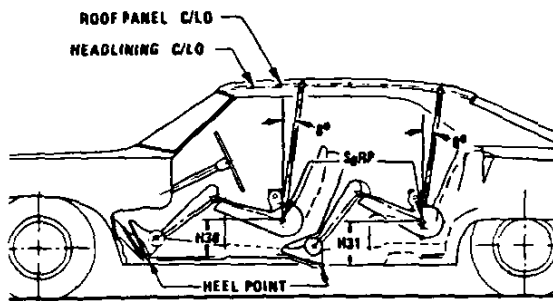
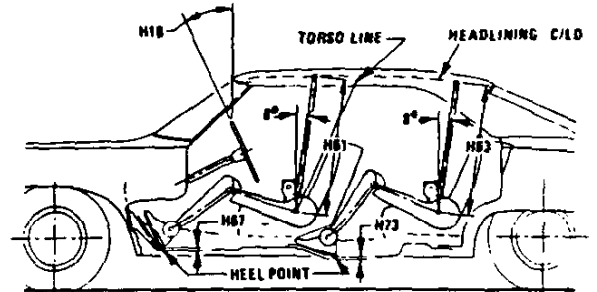
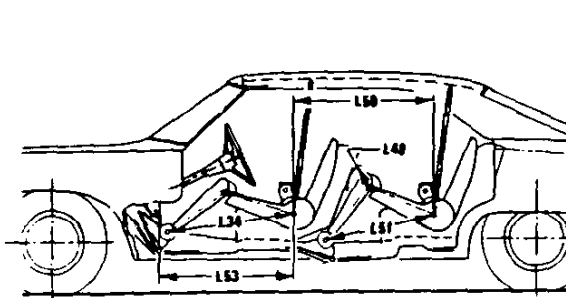
Exterior Ground Clearance



MVMA Specifications Form

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet

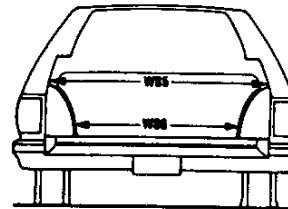
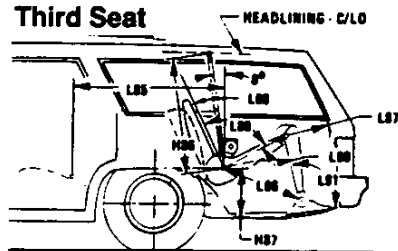


MVMA Specifications

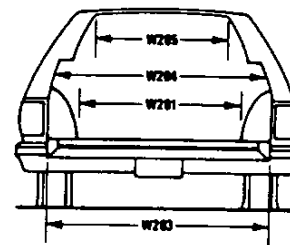
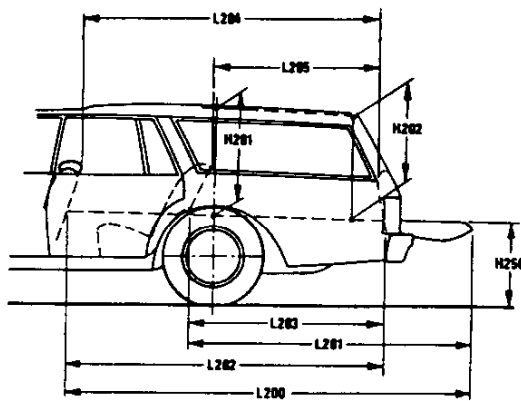
METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet

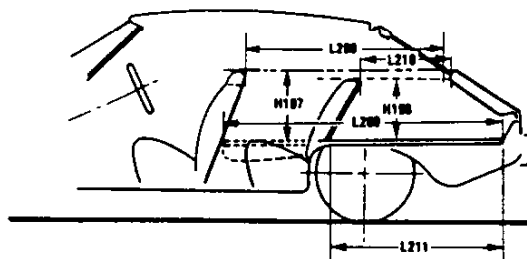
Third Seat



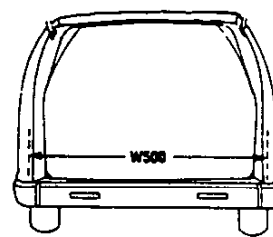
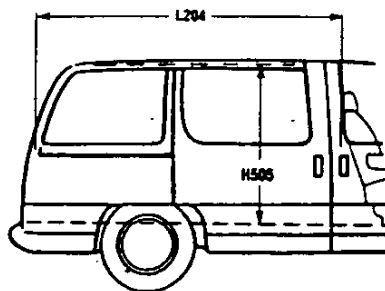
Cargo Space



Station Wagon



Hatchback



Multipurpose Vehicle

MVMA Specifications

METRIC (U.S. Customary)

Exterior Vehicle 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.
- 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.
- W410 OUTSIDE MIRROR WIDTH: The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" 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 OVERHAND – FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L105 OVERHANG – REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

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

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.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD – TIRE RADIUS – REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

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.
- 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.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

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

- 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. (See SAE J1100)
- L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. 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. (See SAE J1100).
- 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.
- L-40 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.
- L-42 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.
- H7 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.
- 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.

Rear Compartment Dimensions

- L-41 BACK ANGLE – SECOND. The angle measured between a vertical line through the SgRP – second and the torso line.
- L43 HIP ANGLE – SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE – SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE – SECOND. The angle measured between 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 the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLED 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 254 mm (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.
- 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.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

Luggage Compartment Dimensions

- V1 **USABLE LUGGAGE CAPACITY** – Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.

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 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 / MPV – Third Seat Dimensions

- L85 **SgRP COUPLE DISTANCE – THIRD.** The dimension measured horizontally from the SgRP – second to the SgRP – third.
- L86 **EFFECTIVE LEG ROOM – THIRD.** The dimension measured along a line from the ankle pivot center to the SgRP – third plus 254 mm (10.0 in.).
- L87 **KNEE CLEARANCE – THIRD.** The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 **BACK ANGLE – THIRD.** Measured in the same manner as L41.
- L89 **HIP ANGLE – THIRD.** Measured in the same manner as L43.
- L90 **KNEE ANGLE – THIRD.** Measured in the same manner as L45.
- L91 **FOOT ANGLE – THIRD.** Measured in the same manner as L47.
- W85 **SHOULDER ROOM – THIRD.** Measured in the same manner as W4.
- W86 **HIP ROOM – THIRD.** Measured in the same manner as W5.
- H86 **EFFECTIVE HEAD ROOM – THIRD.** The dimension, measured along a line 8 deg. from the SgRP – third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 **SgRP – THIRD TO HEEL POINT.**
- SD1 **SEAT FACING DIRECTION – THIRD.**

Station Wagon / MPV – Cargo Space Dimensions

- L200 **CARGO LENGTH – OPEN – FRONT.** The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 **CARGO LENGTH – OPEN – SECOND.** The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

- L202 **CARGO LENGTH – CLOSED – FRONT.** The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 **CARGO LENGTH – CLOSED – SECOND.** The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 **CARGO LENGTH AT BELT – FRONT.** The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 **CARGO LENGTH AT BELT – SECOND.** The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 **CARGO WIDTH – WHEELHOUSE.** The minimum dimension measured laterally between the trimmed wheelhouses at floor level. For any vehicle not trimmed, measure to the sheet metal.
- W203 **REAR OPENING WIDTH AT FLOOR.** The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 **REAR OPENING WIDTH AT BELT.** The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 **REAR OPENING WIDTH ABOVE BELT.** The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- W500 **CARGO WIDTH AT FLOOR.** The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.
- 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.
- H505 **MAXIMUM CARGO HEIGHT.** The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

V2 STATION WAGON

Measured in inches:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT.

The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V5 TRUCKS AND MPV'S WITH OPEN AREA.

Measured in inches:

$$\frac{L506 \times W505 \times H503}{1728} = \text{ft}^3$$

Measured in mm:

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

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

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

Measured in mm:

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

V8 HIDDEN LUGGAGE CAPACITY – REAR OF SECOND SEAT.

The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.

V10 STATION WAGON CARGO VOLUME INDEX.

Measured in inches:

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

Measured in mm:

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

Hatchback – Cargo Space Dimensions

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

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension measured at floor level from the rear of the front seatback 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. 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. 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 "X" plane.

L211 CARGO LENGTH AT FLOOR – SECOND SEATBACK. 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 seatback to the undepressed floor covering.

V3 HATCHBACK.

Measured in inches:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT.

The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage

(one (1) stand and luggage set) below floor:

Measured in inches:

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

Measured in mm:

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

MVMA Specifications

METRIC (U.S. Customary)

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