# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC ( U.S. Customary )

# 1994

| Manufacturer | Vehicle Line |
|---|---|
| HONDA MOTOR CO., LTD. | ACURA INTEGRA 3 DOOR |
| Mailing Address<br>No. 1-1, 2 chome, Minami - Aoyama, Minato - ku, Tokyo, Japan | Issued: June 1993 / Revised: |

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 suggested specification from was developed by the vehicle manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

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

Motor Vehicle Manufacturers association
of the United States, Inc.

Forms Provided by Technical Affairs Division

# MVMA Specifications

METRIC (U.S. Customary)

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Ø Indicates Format Change From Previous Year

NOTE :

1. This form uses both SI metric units and U.S. Customary unit. 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

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## METRIC (U.S. Customary)

### Vehicle Origin

| | |
|---|---|
| Design & development (company) | Honda R & D Co., Ltd. |
| Where built (country) | Japan |
| Authorized U.S. sales marketing representative | American Honda Motor Co., Inc. |

### Vehicle Models

| Model Description & Drive (FWD / RWD / AWD / 4WD)* | Introduction Date | Make, Vehicle Models, Series, Body Type (Mfgr's Model Code) | No. of Designated Seating Positions (Front / Rear) | Max. Trunk / Cargo Load - Kilograms (Pounds) | EPA Fuel Economy (City/Hwy) |
|---|---|---|---|---|---|
| INTEGRA 3 DOOR RS (FWD) | July 1993 | ACURA, INTEGRA, 5M/T, 2DR HATCHBACK, (DC434) | 4 (2/2) | 45 (100) | 25/31 |
| | | ACURA, INTEGRA, 4A/T, 2DR HATCHBACK, (DC444) | | | 24/31 |
| INTEGRA 3 DOOR LS (FWD) | | ACURA, INTEGRA, 5M/T, 2DR HATCHBACK, (DC435) | | | 25/31 |
| | | ACURA, INTEGRA, 4A/T, 2DR HATCHBACK, (DC445) | | | 24/31 |
| INTEGRA 3 DOOR GS-R (FWD) | | ACURA, INTEGRA, 5M/T, 2DR HATCHBACK, (DC238) | | | 25/31 |

* 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 J 1349 Net bhp (brake horsepower) and Net Torque corrected to 77°F/25°C and 29.61 in.Hg/100 kPa atmospheric pressure.

| | | | A | B | C | D |
|---|---|---|---|---|---|---|
| ENGINE | Engine code | | B18B1 | B18B1 | B18C1 | |
| | Displacement Liters (in³) | | 1.834 (112) | 1.834 (112) | 1.797 (110) | |
| | Induction system (FI, Carb, etc.) | | FI | FI | FI | |
| | Compression ratio | | 9.2 | 9.2 | 10.0 | |
| | SAE Net at RPM | Power kW (bhp) | 106 (142) @6300 | 106 (142) @6300 | 127 (170) @7600 | |
| | | Torque N·m(lb.ft.) | 172 (127) @5200 | 172 (127) @5200 | 174 (128) @6200 | |
| | Exhaust single, dual | | single | single | single | |
| TRANS | Transmission / Transaxle | | 5M/T | 4A/T | 5M/T | |
| | Effective final Drive / Axle Ratio (std. first) | | 4.266 | 4.357 | 4.400 | |

| Series Availability | | | Power Teams (A - B - C - D) | |
|---|---|---|---|---|
| Model | | Code | Standard | Optional |
| INTEGRA 3 DOOR RS | 5M/T | DC434 | A | N.A. |
| | 4A/T | DC444 | B | N.A. |
| INTEGRA 3 DOOR LS | 5M/T | DC435 | A | N.A. |
| | 4A/T | DC445 | B | N.A. |
| INTEGRA 3 DOOR GS - R | 5M/T | DC238 | C | N.A. |

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## METRIC (U.S. Customary)

| Engine Description / Engine Code | | B18C1 | B18B1 |
|---|---|---|---|
| **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, Hemisphere | |
| Manufacturer | | HONDA MOTOR CO., LTD. | |
| No. of cylinders | | 4 | |
| Bore | | 81.0 | |
| Stroke | | 87.2 | 89.0 |
| Bore spacing (C / L to C / L) | | 90.0 | |
| Cylinder block material & mass kg (lbs.) (machined) | | Aluminum silicon alloy, 23.2 (51.1) | Aluminum silicon alloy, 21.1 (46.5) |
| Cylinder block deck height | | 212.0 | |
| Cylinder block length | | 449.0 | 427.0 |
| Deck clearance (minimum) (above or below block) | | 60 (Below block) | |
| Cylinder head material & mass kg (lbs.) | | Aluminum silicon alloy, 13.3 (29.32) | Aluminum silicon alloy, 10.7 (23.6) |
| Cylinder head volume ($cm^3$) | | 41.6 | 45.0 |
| Cylinder liner material | | Cast iron alloy | |
| Head gasket thickness (compressed) | | 0.7 ± 0.05 | |
| Minimum combustion chamber total volume ($cm^3$) | | 199.1 | 223.7 |
| Cyl. no. system (front to rear)* | L. Bank | Left to Right : 1 - 2 - 3 - 4 | |
| | R. Bank | N.A. | |
| Firing order | | 1 - 3 - 4 - 2 | |
| Intake manifold material & mass [kg (lbs.)]** | | Aluminum silicon alloy, 7.02 (15.24) | Aluminum silicon alloy, 4.1 (9.0) |
| Exhaust manifold material & mass [kg (lbs.)]** | | Cast iron alloy, 6.75 (14.65) | Cast iron alloy, 6.25 (13.56) |
| Knock sensor (number & location) (Yes / No) | | Yes | No |
| Fuel required unleaded, diesel, etc. | | Unleaded | |
| Fuel antiknock index (R + M) ÷ 2 | | (96 + 86) / 2 = 91, not less than 91 | (91 + 81) / 2 = 86, not less than 86 |
| Engine mounts | Quantity | 5 | |
| | Material and type (elastomeric, hydroelastic, hydraulic, damper, etc.) | Hydroelastic & Rubber elastomeric | |
| | Added isolation (sub - frame, crossmember, etc.) | — | Cross member |
| Total dressed engine mass (wt) dry *** | | 156 | 133 |
| **Engine - Pistons** | | | |
| Material & mass, g (weight, oz.) - piston only | | Aluminum alloy, 289 (10.19) | Aluminum alloy, 280 (9.88) |
| **Engine - Camshaft** | | | |
| Location | | cylinder head | |
| Material & mass kg (weight, lbs.) | | Cast iron alloy, IN 2.24 (4.94) EXH 2.23 (4.92) | Cast iron alloy, IN 1.37 (3.02) EXH 1.87 (4.12) |
| Drive type | Chain / belt | Cogged belt | |
| | Width / pitch | 26.0 / 9.525 | |

* 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: Throttle body, IN / EX manifold, ACG

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## METRIC (U.S. Customary)

| Engine Description / Engine Code | B18C1 | B18B1 |
|---|---|---|

### Engine - Valve System

| | | | |
|---|---|---|---|
| Hydraulic lifters (std., opt., n.a.) | | N.A. | |
| Valves | Number intake / exhaust | 8/8 | |
| | Head O.D. intake / exhaust | 33 / 28 (1.30 / 1.10) | 31 / 28 (1.22 / 1.10) |

### Engine - Connecting Rods

| | | |
|---|---|---|
| Material & mass [kg.,(weight, lbs.)]* | Forged iron , 0.546 (1.204) | Forged iron , 0.487 (1.074) |
| Length (axes C / L to C / L) mm | 137.9 | 137.0 |

### Engine - Crankshaft

| | | | |
|---|---|---|---|
| Material & mass [kg.,(weight, lbs.)]* | | Cast iron , 15.5 | Cast iron , 15.9 |
| End thrust taken by beaning (no.) | | 2 | |
| Length & number of main bearings | | 20, 5 | |
| Seal (material, one, two piece design, etc.) | Front Left | Synthetic rubber 4 Piece design | |
| | Rear Right | Synthetic rubber 4 Piece design | |

### Engine - Lubrication System

| | | |
|---|---|---|
| Normal oil pressure [kPa(psi) at engine rpm] | More than 343 (50) @ 3000 | |
| Type oil intake (floating, stationary) | Floating | |
| Oil filter system (full flow, part, other) | Full flow | |
| Capacity of c / case, less filter - refill - L (qt.) | 4.8 (5.1) including filter , refill 4.0 (4.2) | 4.6 (4.9) excluding filter , refill 3.8 (4.0) |

### Engine - Diesel Information

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

### Engine - Intake System

| | |
|---|---|
| Turbo charger - manufacturer | N.A. |
| Super charger - manufacturer | |
| Intercooler | |

* Finished State

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## METRIC (U.S. Customary)

| Engine Description | B18C1 | B18B1 | |
|---|---|---|---|
| Engine Code | 5M/T | 5M/T | 4A/T |

### Engine - Cooling System

| | | | | |
|---|---|---|---|---|
| Coolant recovery system (std., opt., n.a.) | | Std. | | |
| Coolant fill location (rad., bottle) | | Rad. | | |
| Radiator cap relief valve pressure [kPa (psi)] | | 108 ± 14.7 (15.6 ± 2.1) | | |
| Circulation thermostat | Type (choke, bypass) | Bypass | | |
| | Starts to open at °C (°F) | 78 ± 2 (172.4 ± 3.6) | | |
| Water pump | Type (centrifugal, other) | Centrifugal | | |
| | GPM 1000 pump rpm | 36 at 7600 rpm (140ℓ / 7600 rpm) | 36 at 6000 rpm (140ℓ / 6000 rpm) | |
| | Number of pumps | 1 | | |
| | Drive (V - belt, other) | Cogged belt | | |
| | Bearing type | Ball bearing | | |
| | Impeller material | Carbon steel | | |
| | Housing material | Aluminum alloy | | |
| By-pass recirculation [type (inter., ext.)] | | External | | |
| Cooling system capacity | With heater - L(qt.) | 6.7 (7.1) | 6.4 (6.7) | 6.7 (7.1) |
| | With air conditioner - L(qt.) | N.A. | | |
| | Opt. equipment [specify - L(qt.)] | N.A. | | |
| Water jackets full length of cyl. (yes, no) | | Yes | | |
| Water all around cylinder (yes, no) | | Yes | | |
| Water jackets open at head face (yes, no) | | Yes | | |
| Radiator core | Std., A/C, HD | Std. | | |
| | Type (cross - flow, etc.) | Down - flow | | |
| | Construction (fin & tube mechanical, braze, etc.) | Vertical / tube & fin | | |
| | Material, mass [kg (wgt., lbs.)] | Aluminum 2.56 (5.64) | Brass 3.55 (7.83) | Aluminum 2.80 (6.17) |
| | Width | 670.3 | 660.8 | 670.3 |
| | Height | 350 | 350 | 350 |
| | Thickness | 18 | 16 | 18 |
| | Fins per inch | 11 | | |
| Radiator end tank material | | Nylon | | |
| Fan | Std., elec., opt. | Elec. | | |
| | Number of blades & type (flex, solid, material) | 4, Flex, Polypropylene | 5, Flex, Polypropylene | 4, Flex, Polypropylene |
| | Number & location (front, rear of radiator) | 1; Rear of radiator | | |
| | Diameter & projected width | 300, 52-100 | 300, 48-100 / 300, 52-110 | |
| | Ratio (fan to crankshaft rev.) | N.A. | | |
| | Fan cutout type | N.A. | | |
| | Drive type (direct, remote) | N.A. | | |
| | RPM at idle (elec.) | 2200 ± 10 % | 2150 ± 9.3 % | 2200 ± 10 % |
| | Motor rating (wattage) (elec.) | 80 | | |
| | Motor switch (type & location) (elec.) | Thermo switch | | |
| | Switch point (temp., pressure) (elec.) | 93 ± 1.5°C | | |
| | Fan shroud (material) | Polypropylene | | |

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

### ENGINE - Fuel System

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

| | | | |
|---|---|---|---|
| Induction type : carburetor, fuel injection system, etc. | | Fuel injection system | |
| Manufacturer | | HONDA MOTOR CO., LTD. | |
| Carburetor no. of barrels | | N.A. | |
| Idle A/F mix. | | Approx. 14.7 | |
| Fuel injection | Point of injection (no.) | Intake port, (4) | |
| | Constant, pulse, flow | Pulse flow | |
| | Control (electronic, mech.) | Electronic | |
| | System pressure [kPa (psi)] | 340 ± 5 (49.3 ± 0.7) | 290 ± 5 (42.1 ± 0.7) |
| Idle spd. - rpm (spec. neutral or drive and propane if used) | Manual | 750 (Neutral) | 750 (Neutral) |
| | Automatic | N.A. | 750 (Neutral) |
| Intake manifold heat control (exhaust or water thermostatic or fixed) | | Water thermostatic | |
| Air cleaner type | | Non woven fabric element | |
| Fuel filter (type/location) | | Paper element / Engine compartment | |
| Fuel pump | Type (elec. or mech.) | Electrical | |
| | Location (eng., tank) | In fuel tank | |
| | Pressure range [kPa (psi)] | 441~637 (64.0~92.4) | |
| | Flow rate at regulated pressure [L (gal) / hr @ kPa (psi)] | 125 (33) at 343 (49.8) | 96 (25.3) at 294 (42.7) |

### Fuel Tank

| | | |
|---|---|---|
| Capacity [refill L (gallons)] | | 50 (13.2) |
| Location (describe) | | Rear underfloor |
| Attachment | | Bolt |
| Material & Mass [kg (weight lbs.)] | | Steel , 9.5 (20.9) |
| Filler pipe | Location & material | LH side rear quarter panel, carbon steel |
| | Connection to tank | Flexible connecting tube |
| Fuel line (material) | | Steel pipe |
| Fuel hose (material) | | Fluoric rubber |
| Return line (material) | | Steel pipe |
| Vapor line (material) | | Steel pipe |
| Extended range tank | Opt., n.a. | N.A. |
| | Capacity [L (gallons)] | N.A. |
| | Location & material | N.A. |
| | Attachment | N.A. |
| Auxiliary tank | Opt., n.a. | N.A. |
| | Capacity [L (gallons)] | N.A. |
| | Location & material | N.A. |
| | Attachment | N.A. |
| | Selector switch or valve | N.A. |
| | Separate fill | N.A. |

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|---|---|---|---|
| | 5M/T | 5M/T | 4A/T |

### Vehicle Emission Control

| | | | | | |
|---|---|---|---|---|---|
| Exhaust Emission Control | Type (air injection, engine modification, other) | | | CAT | |
| | Air Injection | Pump or pulse | | N.A. | |
| | | Driven by | | N.A. | |
| | | Air distribution (head, manifold, etc.) | | N.A. | |
| | | Point of entry | | N.A. | |
| | Exhaust Gas Recirculation | Type (controlled flow, open orifice, other) | | N.A. | |
| | | Exhaust source Point of exhaust injection (spacer, carburetor, manifold, other) | | N.A. | |
| | Catalytic Converter | Type | | Three - way | |
| | | Number of | | 1 | |
| | | Location(s) | | Under floor | |
| | | Volume [L (in³)] | | Confidential | |
| | | Substrate type | | Confidential | |
| | | Noble metal type | | Confidential | |
| | | Noble metal concentration (g / cm³) | | Confidential | |
| Crankcace Emission Control | Type (ventilates to atmosphere, induction system, other) | | | Induction system (PCV) | |
| | Energy source (manifold vacuum, carburetor, other) | | | Manifold vacuum | |
| | Discharges (to intake manifold, other) | | | To intake manifold | |
| | Air inlet (breather cap, other) | | | Air intake hose | |
| Evapora - tive Emission Control | Vapor vented to (crankcase, canister, other) | Fuel tank | | Canister | |
| | | Carburetor | | N.A. | |
| | Vapor storage provision | | | Canister | |
| Electronic system | Closed loop (yes / no) | | | Yes | |
| | Open loop (yes / no) | | | No | |

### Engine - Exhaust System

| | | | | |
|---|---|---|---|---|
| Type (single, single with cross - over, dual, other) | | Single | | |
| Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs) ] | | 1025 , Straight thru, Stainless steel 9.5 (20.9) | 512 , Straight thru , Stainless steel 9.5 (20.9) | |
| Resonator no. & type | | N.A. | | |
| Exhaust pipe | Branch o.d., wall thickness | N.A. | | |
| | Main o.d., wall thickness | 41.3 , 1.0 | 38.1 , 1.2 | 50.8 , 1.5 |
| | Material & Mass [kg (weight lbs) ] | Stainless steel 4.0 (8.8) | Stainless steel 3.9 (8.6) | |
| Inter-mediate pipe | Main o.d., wall thickness | 48.6 , 1.6 & 50.8 , 2.0 | 48.6 , 1.6 & 48.6 , 2.0 | |
| | Material & Mass [kg (weight lbs) ] | Carbon steel | Carbon steel | |
| Tail pipe | Main o.d., wall thickness | 50.8 , 1.2 | 48.6 , 1.2 | |
| | Material & Mass [kg (weight lbs) ] | Stainless steel 9.5 (20.9) | | |

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| Engine Description / Engine Code | B18C1 | B18B1 | |
|---|---|---|---|
| | 5M/T | 5M/T | 4A/T |

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

| | | | |
|---|---|---|---|
| Manual 4 - speed (manufacturer / country) | N.A. | | |
| Manual 5 - speed (manufacturer / country) | HONDA / JAPAN | | N.A. |
| Manual 6 - speed (manufacturer / country) | N.A. | | |
| Automatic (manufacturer / country) | N.A. | | |
| Automatic overdrive (manufacturer / country) | N.A. | | HONDA / JAPAN |
| | | | |

### Manual Transmission / Transaxle

| | | | | |
|---|---|---|---|---|
| Number of forward speeds | | 5 | | N.A. |
| Gear ratios | 1st | 3.230 | 3.230 | |
| | 2nd | 1.900 | 1.900 | |
| | 3rd | 1.360 | 1.269 | |
| | 4th | 1.034 | 0.966 | |
| | 5th | 0.787 | 0.714 | |
| | 6th | N.A. | | |
| | Reverse | 3.000 | | |
| Synchronous meshing (specify gears) | | All gears | | |
| Shift lever location | | Floor | | |
| Trans. case mat'l. & mass kg (lbs.)* | | 54.6(120) Aluminum silicon alloy | 53.8(119) Aluminum silicon alloy | |
| Lubricant | Capacity [L (pt.) (qt.)] | 2.3 (2.4), refill 2.2 (2.3) | | |
| | Type recommended | API SF or SG ; SAE 10W-30 or 10w-40 | | |

### Clutch (Manual Transmission)

| | | | |
|---|---|---|---|
| Clutch manufacturer | | F.C.C | N.A. |
| Clutch type (dry, wet; single, multiple disc) | | Dry , Single | |
| Linkage (hydraulic, cable, rod, lever, other) | | Hydraulic | |
| Max. pedal effort (nom.spring load, new) N (lbs) | Depressed | — | |
| | Released | — | |
| Assist (spring, power / percent, nominal) | | 1.5 kgf (14.7N) | |
| Type pressure plate springs | | Diaphragm | |
| Total spring load (nominal, new) N (lbs) | | 4410~4860 (3239~3584) | |
| Clutch facing | Facing mfgr. & material coding | F.C.C | |
| | Facing material & construction | Resin mold | |
| | Rivets per facing | 16 | |
| | Outside x inside dia. (nominal) | 220 x 150 | |
| | Total eff. area [cm²(in.²)] | 203 (31.5) | |
| | Thickness (pressure plate side / fly wheel side) | 3.5 | |
| | Rivet depth (pressure plate side / fly wheel side) | 1.4 | |
| | Engagement cushion method | Disk plate spring | |
| Release bearing type & method lub. | | Ball bearing | |
| Torsional damping method, springs, hysteresis | | Springs | |

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

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## METRIC (U.S. Customary)

| | |
|---|---|
| Engine Description<br>Engine Code | B18B1 |

### Automatic Transmission / Transaxle

| | | |
|---|---|---|
| Trade Name | | Automatic |
| Type and special features (describe) | | 4 - speed automatic transmission with lock - up clutch |
| Shift mechanics | | Hydraulic , Mechanical |
| Gear selector | Location (column, floor, other) | Floor |
| | Ltr./No. designation (e.g: PRND21) | P , R , N , D4 , D3 , 2 , 1 / 7 |
| | Shift interlock (yes, no, describe) | YES |
| Gear ratios | 1st | 2.722 |
| | 2nd | 1.468 |
| | 3rd | 0.975 |
| | 4th | 0.638 |
| | Reverse | 1.954 |
| | Final drive ratio | 4.357 |
| Max. upshift vehicle speed - drive range [km/h (mph)] | | 1 - 2 : 52 (32), 2 - 3 : 102 (63), 3 - 4 : 160 (99) |
| Max. upshift engine RPM | | 1 - 2 : 6000 , 2 - 3 : 6330, 3 - 4 : 6330 |
| Max. kickdown speed - drive range [km/h (mph)] | | 4 - 3 : 140 (87), 3 - 2 : 90 (56), 2 - 1 : 40 (25) |
| Min. overdrive speed [km/h (mph)] | | 4 - 3 : 31 (19), 3 - 2 : 12 (7), 2 - 1 : 12 (7) |
| Torque converter | Type | 3 elements 1 stage |
| | Tours design | Axial flow |
| | Number of elements | 3 |
| | Max. ratio at stall | 1.95 at 2400 rpm |
| | Type of cooling (air, liquid) | Air & Liquid |
| | Nominal diameter | 244 |
| | Capacity factor "K"* | 2.65 |
| Lubricant | Capacity [refill L (pt.)] | 5.9 (6.2) , refill 2.7 (2.9) |
| | Type recommended | DEXRON II |
| Pump type | | Outer gear pump (Involute gear design) |
| Oil cooler (std., opt., N.A., internal, external, air, liquid) | | Std. , External , Liquid |
| Transmission mass [kg (lbs)] & case material ** | | 72 (159) Aliminum silicon alloy |

### All Wheel / 4 Wheel Drive

| | | |
|---|---|---|
| Description & type (part - time, full - time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.) | | N.A. |
| Transfer case | 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 (% front / rear) | |

* Input speed ÷ $\sqrt{\text{torque}}$

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

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## METRIC (U.S. Customary)

| Engine Description | B18C1 | B18B1 | |
|---|---|---|---|
| Engine Code | 5M/T | 5M/T | 4A/T |

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

| | | | | | |
|---|---|---|---|---|---|
| Effective final drive ratio (or overall top gear ratio) | | | 4.40 | 4.27 | 4.36 |
| Transfer ratio and method (chain, gear, etc.) | | | N.A. | | |
| Front drive unit | Ring gear o.d. | | 193.1 | 192.2 | 187.7 |
| | No. of teeth | Pinion | 15 | | 14 |
| | | Ring gear | 66 | 64 | 61 |

### Front Drive Unit

| | | |
|---|---|---|
| Description (integral to trans., etc.) | | Helical gear |
| Limited slip differential (type) | | N.A. |
| Drive pinion | Type | Straight bevel gear |
| | Offset | N.A. |
| No. of differential pinions | | 2 |
| Pinion / differential | Adjustment (shim, etc.) | Shim |
| | Bearing adjustment | N.A. |
| Driving wheel bearing (type) | | Ball bearing |
| Lubricant | Capacity [L (pt.)] | Common in transmission lubricant |
| | Type recommended | Lubricated by transmission oil |

### Axle Shafts - Front Wheel Drive

| | | | |
|---|---|---|---|
| Manufacturer and number used | | | HONDA MOTOR, 2 |
| Type (straight, solid bar, tubular, etc.) | | Left | Straight solid bar |
| | | Right | Straight solid bar |
| Outer diam. x length* x wall thickness | Manual transaxle | Left | 26 x 425.4 |
| | | Right | 26 x 425.4 |
| | Automatic transaxle | Left | 26 x 425.4 |
| | | Right | 26 x 425.4 |
| | Optional transaxle | Left | N.A. |
| | | Right | N.A. |
| Slip yoke | Type | | Birfield double offset joint - solid type |
| | Number of teeth | | N.A. |
| | Spline o.d. | | N.A. |
| Universal joints | Make and mfg. no. | Inner | NTN TOYO BEARING CO., LTD. |
| | | Outer | NTN TOYO BEARING CO., LTD. |
| | Number used | | Inner : 2 , Outer : 2 |
| | Type, size, plunge | Inner | Constant velocity joint |
| | | Outer | Constant velocity joint |
| | Attach (u-bolt, clamp, etc.) | | C-clip |
| | Bearing | Type (plain, anti-friction) | Roller, Anti-friction |
| | | Lubrication (fitting, prepack) | Prepack |
| Drive taken through (torque tube, arms or springs) | | | N.A. |
| Torque taken through (torque tube, arms or springs) | | | N.A. |

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

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR

Model Year 1994 Issued June 1993 Revised (-)

## METRIC (U.S. Customary)

Engine Description
Engine Code

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

| | | |
|---|---|---|
| Axle ratio (or overall top gear ratio) | | N.A. |
| Ring gear o.d. | | |
| No. of teeth | Pinion | |
| | Ring gear | |

### Rear Axle Unit

| | | |
|---|---|---|
| Description | | N.A. |
| Limited slip differential (type) | | |
| Drive pinion | Type | |
| | Offset | |
| No. of differential pinions | | |
| Pinion / differential | Adjustment (shim, etc.) | |
| | Bearing adjustment | |
| Driving wheel bearing (type) | | |
| Lubricant | Capacity [L (pt.)] | |
| | Type recommended | |

### Propeller Shaft - Rear Wheel Drive

| | | | |
|---|---|---|---|
| Manufacturer<br>Type (straight tube, tube-in-tube, internal-external damper, etc.) | | | N.A. |
| Outer diam. x length* x wall thickness | Manual 4-speed transmission | | |
| | Manual 5-speed transmission | | |
| | Manual 6-speed transmission | | |
| | Overdrive | | |
| | Automatic transmission | | |
| Inter-mediate bearing | Overdrive | | |
| | Automatic transmission | | |
| Slip yoke | Type | | |
| | Number of teeth | | |
| | Spline o.d. | | |
| Universal joints | Make and mfg. no. | Front | |
| | | Rear | |
| | Number used | | |
| | Type (ball and trunnion, cross) | | |
| | Rear attach (u-bolt, clamp, etc.) | | |
| | Bearing | Type (plain, anti - friction) | |
| | | Lubrication (fitting, prepack) | |
| Drive taken through (torque tube, arms or springs) | | | |
| Torque taken through (torque tube, arms or springs) | | | |

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

# MVMA Specifications

METRIC (U.S.Customary)

Vehicle Line ACURA INTEGRA 3 DOOR
Model Year 1994 Issued June 1993 Revised (-)

Model Code / Description And / Or
Engine Code / Description

| | |
|---|---|
| *1 | RS (M / T) |
| *2 | RS (A / T) , LS (M / T), GS-R |
| *3 | LS (A / T) |
| *4 | RS , LS |
| *5 | GS - R |
| *6 | RS , LS , GS - R |

## Suspension - General Including Electronic Controls

| | | | |
|---|---|---|---|
| Car leveling | Standard / optional / not avail. | | N.A. |
| | 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 | | N.A. |
| | Manual / automatic control | | |
| | Number of damping rates | | |
| | Type of actuation (manual / electric motor / air, etc.) | | |
| | Sensors | Lateral acceleration | |
| | | Deceleration | |
| | | Acceleration | |
| | | Road surface | |
| Shock absorber (front & rear) | Type | | Telescopic, Nitrogen gas - filled |
| | Make | | SHOWA |
| | Piston diameter | | Front : 30 , Rear : 30 |
| | Rod diameter | | Front : 12.5 , Rear : 12.5 |

## Suspension - Front

| | | |
|---|---|---|
| Type and description | | Independent, Double wishbone with coil spring |
| Travel | Full jounce (define load condition) | 64.0 |
| | Full rebound | 52.9 |
| Spring | Type (coil, leaf, other & material) | Coil Spring, Steel |
| | Insulators (type & material) | Mounting, Rubber |
| | Size (Leaf : length & width ; Coil : design height & i.d. ; Bar : length & diameter) | 386.5 x 58~73.4 *1<br>389.7 x 58~73.4 *2<br>394.5 x 58~73.4 *3 |
| | Spring rate [N / mm (lb. / in.)] | 33.3 (190.1) |
| | Rate at wheel [N / mm (lb. / in.)] | 15.2 (86.8) |
| Stabilizer | Type (link, linkless, frameless) | Link |
| | Material & O.D. bar / tube, wall thickness | Spring steel 22.0 *4 24.0 *5 |

## Suspension - Rear

| | | | |
|---|---|---|---|
| Type and description | | | Independent, Double wishbone with coil spring |
| Travel | Full jounce (define load condition) | | 91.9 |
| | Full rebound | | 48.9 |
| Spring | Type (coil, leaf, other & material) | | Coil spring, Steel |
| | Size (Leaf : length & width ; Coil : design height & i.d. ; Bar : length & diameter) | | 363.7 x 64.5 ~ 79.1 *6 |
| | Spring rate [N / mm (lb. / in.)] | | 18.6 (106.2) |
| | Rate at wheel [N / mm (lb. / in.)] | | 15.2 (86.8) |
| | Insulators (type & material) | | Mounting, Rubber |
| | If leaf | No. of leaves | N.A. |
| | | Shackle (comp. or tens.) | N.A. |
| Stabilizer | Type (link, linkless, frameless) | | Link |
| | Material & O.D. bar / tube, wall thickness | | Spring steel , 13.0 *5 14.0 *6 |
| Track bar (type) | | | N.A. |

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR
Model Year 1994 Issued June 1993 Revised (·)

## METRIC (U.S. Customary)

| Model Code / Description And / Or Engine Code / Description | RS | LS , GS-R |
|---|---|---|

### Brakes - Service

| | | | | | |
|---|---|---|---|---|---|
| Description | | | | Split service brake | |
| Manufacturer and brake type (std., opt., n.a.) | Front (disc or drum) | | | NISSIN, Disk | |
| | Rear (disc or drum) | | | NISSIN, Disk | |
| Valving type (proportion, delay, metering, other) | | | | Proportion | |
| Power brake (std., opt., n.a.) | | | | Std. | |
| Booster type (remote, integral, vac., hyd., etc.) | | | | Integral, Vac. | |
| Vacuum | Source (inline, pump, etc.) | | | Inline | |
| | Reservoir (volume in.³) | | | N.A. | |
| | Pump - type (elec, gear driven, belt driven) | | | N.A. | |
| Traction assist | Operational speed range | | | N.A. | |
| | Type (engine or brake intervention) | | | N.A. | |
| Anti - lock device | Front / rear (std., opt., n.a.) | | | N.A. | Std. / Std. |
| | Manufacturer | | | N.A. | NISSIN |
| | Type (electronic, mech.) | | | N.A. | Electronic |
| | Number sensors or circuits | | | N.A. | 4 |
| | Number anti - lock hydraulic circuits | | | N.A. | 3 |
| | Integral or add - on system | | | N.A. | Integral |
| | Yaw control (yes, no) | | | N.A. | No |
| | Hydraulic power source (elec., vac, mfr.,pwr. strg.) | | | N.A. | Electronic |
| Effective area [cm² (in.²)]* | | | | Front : 200 (31.0) , Rear : 84(13.0) | |
| Gross Lining area [cm² (in.²)]**(F / R) | | | | 224 (34.7) / 84 (13.0) | |
| Swept area [cm² (in.²)]***(F / R) | | | | 1320 (204.6) / 804 (124.6) | |
| Rotor | Outer working diameter | | F / R | 262 / 239 | |
| | Inner working diameter | | F / R | 160 / 174 | |
| | Thickness | | F / R | 21 / 10 | |
| | Material & type (vented / solid) | | F / R | Cast iron, Vented / Cast iron, Solid | |
| Drum | Diameter & width | | F / R | N.A. | |
| | Type and material | | F / R | N.A. | |
| Wheel cylinder bore | | | | Front : 57.2 , Rear : 30.2 | |
| Master cylinder | Bore / stroke | | F / R | 23.8 / 30.0 | 25.4 / 30.0 |
| Pedal arc ratio | | | | 4.06 (A / T) , 3.84 (M / T) | |
| Line pressure at 445N (100 lb.) pedal load (kPa (psi)] | | | | 10758 (1560) | 9444 (1369) |
| Lining clearance | | | F / R | Self adjusting / Self adjusting | |
| Brake lining | Front Wheel | Bonded or riveted (rivets / seg.) | | Bonded | |
| | | Rivet size | | N.A. | |
| | | Manufacturer | | NISSIN | |
| | | Lining code ***** | | NS175HEF | |
| | | Material | | Resin mold | |
| | | **** Primary or out - board | | 117 x 49.8 x 10 | |
| | | Size Secondary or in - board | | 117 x 49.8 x 10 | |
| | | Shoe thickness (no lining) | | 6.5 (0.26) | |
| | Rear Wheel | Bonded or riveted (rivets / seg.) | | Bonded | |
| | | Manufacturer | | NISSIN | |
| | | Lining code ***** | | NBK D6222FF | |
| | | Material | | Resin mold | |
| | | **** Primary or out - board | | 71 x 31 x 7.5 | |
| | | Size Secondary or in - board | | 71 x 31 x 7.5 | |
| | | Shoe thickness (no lining) | | 5.5 | |

* Excludes rivet holes, grooves, chamfers, etc. ** Includes rivet holes, grooves, chamfers, etc.
*** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
(Disk brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi / 2 for each brake.)
**** Size for drum brakes includes length x width x thickness.
***** Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR
Model Year 1994 Issued June 1993 Revised (·)

## METRIC (U.S. Customary)

Model Code / Description And / Or
Engine Code / Description

### Tires And Wheels (Standard)

| | | | RS | LS | GS-R |
|---|---|---|---|---|---|
| Tires | Size (service description) | | P195/60R14 85H | | P195/55R15 84V |
| | Type (bias, radial, steel, nylon, etc.) | | Radial | | |
| | Inflation pressure (cold) for recommended max. vehicle load | Front [kPa (psi)] | 200 (29) | | 240 (35) |
| | | Rear [(kPa (psi)] | 200 (29) | | 230 (33) |
| | Rev. / mile - at 70 km/h (45 mph) | | 868 | | 861 |
| Wheels | Type & material | | Disk, Steel | | Aluminum |
| | Rim (size & flange type) | | 14 x 5 ½ JJ | | 15 x 6JJ |
| | Wheel offset | | 45 | | |
| | Attachment | Type (bolt or stud & nut) | Stud | | |
| | | Circle diameter | 100 | | |
| | | 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) | | On cargo floor | | |

### Tires And Wheels (Optional)

N.A.

| | |
|---|---|
| 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) | |
| 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) | |

### Brakes - Parking

| | | |
|---|---|---|
| Type of control | | Hand operated lever |
| Location of control | | Between front seats |
| Operates on | | Rear wheels |
| If separate from service brakes | Type (internal or external) | N.A. |
| | Drum diameter | N.A. |
| | Lining size (length x width x thickness) | N.A. |

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR
Model Year 1994 Issued June 1993 Revised (·)

## METRIC (U.S. Customary)

| Model Code / Description And / Or Engine Code / Description | RS , LS , GS - R |
|---|---|

### Steering

| | | | | |
|---|---|---|---|---|
| Manual (std., opt., n.a.) | | | | N.A. |
| Power (std., opt., n.a.) | | | | Std. |
| Speed-sensitive (std., opt., n.a.) | | | | Std. |
| 4-wheel steering (std., opt., n.a.) | | | | N.A. |
| Adjustable steering wheel / column (tilt, telescope, other) | | Type | | Tilt |
| | | Manufacturer | | Honda |
| | | (std., opt., n.a.) | | Std. |
| Wheel diameter** (W9) SAE J1100 | | Manual | | N.A. |
| | | Power | | 375 (14.8) |
| Turning diameter m (ft.) | Outside front | Wall to wall (l. & r.) | | 11.4 (37.4) |
| | | Curb to curb (l. & r.) | | 10.6 (34.8) |
| | Inside rear | Wall to wall (l. & r.) | | 6.10 (20.0) |
| | | Curb to curb (l. & r.) | | 6.30 (20.7) |
| Scrub Radius * | | | | -3.3 (-0.13) |
| Manual | Gear | Type | | N.A. |
| | | Manufacturer | | N.A. |
| | | Ratios | Gear | N.A. |
| | | | Overall | N.A. |
| | No. wheel turns (stop to stop) | | | N.A. |
| Power | Type (coaxial, ele., hyd., etc.) | | | Coaxial |
| | Manufacturer | | | SEIKI GIKEN |
| | Gear | Type | | Rack & Pinion |
| | | Ratios | Gear | ∞ |
| | | | Overall | 16.10 |
| | Pump (drive) | | | V. Belt |
| | No. wheel turns (stop to stop) | | | 2.98 |
| Linkage | Type | | | Lateral tie - rod |
| | Location (front or rear of wheels, other) | | | Rear of front wheel |
| | Tie rods (one or two) | | | Two |
| Steering axis | Inclination at camber (deg.) | | | Camber : 0° , king pin : 10°48' |
| | Bearings (type) | Upper | | Ball joint |
| | | Lower | | Ball joint |
| | | Thrust | | N.A |
| Steering spindle / knuckle & joint type | | | | Ball joint |

* The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.
** See Page 23. (Steering wheel maximum diameter)

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR

Model Year 1994 · Issued June 1993 Revised (·)

## METRIC (U.S. Customary)

Model Code / Description And / Or
Engine Code / Description: RS , LS , GS - R

### Wheel Alignment

| | | | |
|---|---|---|---|
| Front wheel at curb mass (wt.) | Service checking | Caster (deg.) | 1°10' ± 1° |
| | | Camber (deg.) | -0°5' ± 1° |
| | | Toe - in outside track - mm (in.) | 0 ± 2 (0 ± 0.8) |
| | Service reset* | Caster (deg.) | Pre - set |
| | | Camber (deg.) | Pre - set |
| | | Toe - in - mm (in.) | Adjustable |
| | Periodic M.V. inspection | Caster (deg.) | Same as service checking |
| | | Camber (deg.) | Same as service checking |
| | | Toe - in- mm (in.) | Same as service checking |
| Rear wheel at curb mass (wt.) | Service checking | Camber (deg.) | -0°45' $\pm^{45'}_{1°15'}$ |
| | | Toe - in outside track - mm (in.) | $3 \pm^{2}_{1}$ ($0.12 \pm^{0.08}_{0.04}$) |
| | Service reset* | Camber (deg.) | Pre - set |
| | | Toe - in- mm (in.) | Adjustable |
| | Periodic M.V. inspection | Camber (deg.) | Same as service checking |
| | | Toe - in- mm (in.) | Same as service checking |

* 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.) | Std. |
| Head-up display | Standard, optional, not available | N.A. |
| | Type - Secondary, opto-electronic | |
| | Speedometer Digital | |
| | Status/warning indicators Turn signals, high beam, low fuel,check gauges | |
| | Brightness control Day / night mode, adjustable | |
| EGR maintenance indicator | | N.A. |
| Charge indicator | Type | Voltage regulator |
| | Warning device (light, audible) | Light |
| Temperature indicator | Type | Electric thermal gauge |
| | Warning device (light, audible) | N.A. |
| Oil pressure indicator | Type | Electric pressure switch |
| | Warning device (light, audible) | Light |
| Fuel indicator | Type | Electric gauge |
| | Warning device (light, audible) | Light |
| Windshield wiper | Type (standard) | Electric 2 speed with intermittent and mist operation |
| | Type (optional) | N.A. |
| | Blade length | Driver side : 606 , Assist side : 550 |
| | Swept area [cm² (in.²)] | 7003 (1085) |
| Windshield washer | Type (standard) | Electric motor |
| | Type (optional) | N.A. |
| | Fluid level indicator (light, audible) | N.A. |
| Rear window wiper, wiper / washer (std., opt., n.a.) | | Std. |
| Horn | Type | Electric vibrator |
| | Number used | 2 |
| Other | Parking Brake / Brake Failure Waring Light , Headlight High Beam Indicator Light, Seat Belt Warning Buzzer & Warning Light , Door Open Waring Buzzer & Warning Light , Tail Gate Open Waring Light , Shift Indicator ( for 4A/T ) , Cruise Control Indicator Light ( LS , GS-R ), Anti Lock Brake Warning Light ( LS , GS-R ) | |

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR

Model Year 1994 Issued June 1993 Revised (-)

## METRIC (U.S. Customary)

| Engine Code / Description | B18C1 | B18B1 | |
|---|---|---|---|
| | 5M/T | 5M/T | 4A/T |

### Electrical - Supply System

| | | | | |
|---|---|---|---|---|
| Battery | Manufacturer | MATSUSHITA | | |
| | Model, std., (opt.) | 55B24L(S) - MF | | |
| | Voltage | 12 V | | |
| | Amps at 0°F cold crank | 410 A | | |
| | Minutes - reserve capacity | 70 | | |
| | Amps / hrs. - 20 hr. rate | 45 | | |
| | Location | Rear right of engine compartment | | |
| Alternator | Manufacturer | NIPPON DENSO | | |
| | Rating (idle / max. rpm) | 12V - 90A | | |
| | Ratio (alt. crank / rev.) | 2.29 | 2.37 | |
| | Output at idle (rpm, park) | Min. 50 A | | |
| | Optional (type & rating) | N.A. | | |
| Regulator | Type | IC regulator | | |

### Electrical - Starting System

| | | | | |
|---|---|---|---|---|
| Motor | Manufacturer | NIPPON DENSO | | |
| | Current drain ____ °C (°F) | — | | |
| | Power rating [kw (hp)] | 1.4 (1.9) | | |
| Motor drive | Engagement type | Magnetic | | |
| | Pinion engages from (front, rear) | Right side | | |

### Electrical - Ignition System

| | | | | | | |
|---|---|---|---|---|---|---|
| Type | Electronic (std., opt., n.a.) | Std. | | | | |
| | Other (specify) | N.A. | | | | |
| Coil | Manufacturer | TOYO DENSO | | | | |
| | Model | TC - 08A | | | | |
| | Current — Engine stopped - A | 0 | | | | |
| | Current — Engine idling - A | — | | | | |
| Spark plug | Manufacturer | | NGK | NIPPON DENSO | NGK | NIPPON DENSO |
| | Model — Std. | | PFR6G-13 | PK20PR-L13 | ZFR5F-11 | KJ16CR-L11 |
| | Model — Opt. | | — | — | ZFR6F-11 | KJ20CR-L11 |
| | Thread (mm) | | 14 | | | |
| | Tightening torque [N·m (lb, ft)] | | 18 (13) | | | |
| | Gap | | $1.3 \pm {}^{0}_{0.1}$ | | $1.1 \pm {}^{0}_{0.1}$ | |
| | Number per cylinder | | 1 | | | |
| Distributor | Manufacturer | | TOYO DENSO | | | |
| | Model | | TD - 68U | | TD - 55U | |

### Electrical - Suppression

| | |
|---|---|
| Locations & type | N.A. |

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR

Model Year 1994 Issued June 1993 Revised (-)

## METRIC (U.S. Customary)

| Model Code / Description | RS , LS , GS - R |
|---|---|

### Body

| | |
|---|---|
| Structure | Monocoque construction |
| Bumper system front - rear | Impact absobing<br>Fascia(Polypropylene)<br>Energy absorber (Forming PP)<br>Reinforcement (High strength steel sheet) |
| Anti - corrosion treatment | Surface treated steel sheet<br>Cathodic ED paint<br>Rust preventive wax injection<br>Chipping primer , PVC under body coating |

### Body - Miscellaneous Information

| | | | |
|---|---|---|---|
| Type of finish (lacquer, enamel, other) | | | Acrylic baking |
| Hood | Material & mass | | Iron - zinc alloy coated steel, 14.9 |
| | Hinge location (front, rear) | | Rear |
| | Type (counterbalance, prop) | | Prop |
| | Release control (internal, external) | | Internal |
| Trunk lid | Material & mass | | N.A. |
| | Type (counterbalance, other) | | N.A. |
| | Internal release control (elec., mech., n.a.) | | N.A. |
| Hatchback lid | Material & mass | | Iron - zinc alloy coated steel, 9.9 |
| | Type (counterbalance, other) | | dumper |
| | Internal release control (elec., mech., n.a.) | | Mech. |
| Tailgate | Material & mass | | N.A. |
| | Type (drop, lift, door) | | N.A. |
| | Internal release control (elec., mech., n.a.) | | N.A. |
| Vent window control (crank, friction, pivot, power) | | Front | N.A. |
| | | Rear | N.A. |
| Window regulator type (cable, tape, flex drive, etc.) | | Front | Flex |
| | | Rear | N.A. |
| Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.) | | Front | Bucket, Panel frame , Foam |
| | | Rear | Bench, Wire frame , Foam |
| | | 3rd seat | N.A. |
| Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.) | | Front | Bucket, Panel frame + spring , Foam |
| | | Rear | Bench, Tube / panel frame , Foam |
| | | 3rd seat | N.A. |

### Frame

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

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR

Model Year 1994 Issued June 1993 Revised (-)

## METRIC (U.S. Customary)

Model Code / Description: RS , LS , GS - R

### Restraint System

| Seating Position | | | Left | Center | Right |
|---|---|---|---|---|---|
| Active | Type & description (lap & shoulder belt, lap belt, etc.) Standard / optional | First seat | Lap & shoulder belt, Std. | N.A. | Lap & shoulder belt, Std. |
| | | Second seat | Lap & Shoulder belt, Std. | N.A. | Lap & Shoulder belt, Std. |
| | | Third seat | N.A. | N.A. | N.A. |
| Passive | Type & description (air bag, motorized - 2 - point belt, fixed belt, knee bolster, manual - lap belt) Standard / optional | First seat | Air bag, Knee bolster, Std. | N.A. | Air bag, Knee bolster, Std. |
| | | Second seat | N.A. | N.A. | N.A. |
| | | Third seat | N.A. | N.A. | N.A. |

| Glass | SAE Ref. No. | |
|---|---|---|
| Windshield glass exposed surface area [cm² (in.²)] | S1 | 9039 (1401) *1 |
| Side glass exposed surface are [cm²(in.²)] - total 2 - sides | S2 | 7473 (1159) *1 |
| Backlight glass exposed surface area [cm² (in.²)] | S3 | 7515 (1165) *1 |
| Total glass exposed surface area [cm² (in.²)] | S4 | 24027 (3725) *1 |
| Windshield glass (type / thickness) | | Laminated safety glass / 4.7 |
| Side glass (type / thickness) | | Tempered reinforced glass / 4.0 *2 |
| Backlight glass (type / thickness) | | Tempered reinforced glass / 3.5 |
| Tinted (yes / no , location) | | Yes , All glasses |
| Solar control (yes / no , coated / batched , location) | | No |

*1 Daylight opening area *2 Rear quarter glass 3.5 mm

### Headlamps

| | |
|---|---|
| Description - sealed beam, halogen, replaceable bulb, etc. | Replaceable bulb, Halogen |
| Shape | Round |
| Lo - beam type (2A1, 2B1, 2C1, etc.) | HB4 |
| Quantity | 2 |
| Hi - beam type (1A1, 2A1, 1C1, 2C1, etc.) | HB3 |
| Quantity | 2 |

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR

Model Year 1994 Issued June 1993 Revised (-)

## METRIC (U.S. Customary)

| Engine Code / Description | B18C1 | B18B1 | |
|---|---|---|---|
| | GS - R | LS | RS |

### Climate Control System

| Air conditioning (std., opt., man., auto.) | | Std. manual | | Opt. manual |
|---|---|---|---|---|
| Condenser | Type | Multi - Flow | | |
| | Eff. face area (sq. mm.) | Type A : 103000 | Type B : 109000 | |
| | Fins per inch | Type A : 11 | Type B : 12 | |
| Evaporator | Type | Serpentine | | |
| | Eff. face area (sq. mm.) | Type A : 50000 | Type B : 49000 | |
| | Fins per inch | Type A : 6 | Type B : 7 | |
| Heater core | Material | Tube, Tank : Brass Fin : Copper Frame : Steel | | |
| | Eff. face area (sq. mm.) | 24300 | | |
| | Fins per inch | 12 | | |
| Compressor | Type | Recipro | | |
| | Displacement (cc.) | 150 | | |
| | Manufacturer | NIPPON DENSO CO., LTD. | | |
| | A/C pulley ratio | 1.11 | 1.24 | |
| Accumulator | Type | N.A. | | |
| | Height (mm.) | | | |
| | Diameter (mm.) | | | |
| Receiver | Type | — | | |
| | Height (mm.) | 165 | | |
| | Diameter (mm.) | 60 | | |
| Refrigerant control (CCOT, TVS, etc.) | | — | | |
| Heater water valve (yes / no) | | Yes | | |
| Refrigerant (R - 12, R - 134a, etc.) | | HFC - 134a (R-134a) | | |
| Charge level (lbs. - oz.) | | 650~700g (23 ~ 25 oz) | | |
| Cold engine lockout switch (yes / no) | | — | | |
| Wide open throttle cutout switch (yes / no) | | — | | |

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR

Model Year 1994 Issued June 1993 Revised (·)

## METRIC (U.S. Customary)

| Model Code / Description Body type | RS | LS, GS - R |
|---|---|---|

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

| | | | |
|---|---|---|---|
| Clock (digital, analog) | | Std. (Digital) | |
| Compass / thermometer | | N.A. | |
| Console (floor, overhead) | | Std. (Floor) | |
| Defroster, elec. windshield | | N.A. | |
| Defroster, elec. backlight | | Std. | |
| Electronic | Diagnostic monitor (integrated, individual) | N.A. | |
| | Instrument cluster (list instruments) | N.A. | |
| | Keyless entry | N.A. | |
| | Tripminder (avg. spd., fuel) | N.A. | |
| | Voice alert (list items) | N.A. | |
| | Other | N.A. | |
| Fuel door lock (remote, key, electric) | | Std. (Remote) | |
| Lamps | Auto head on / off delay, dimming | N.A. | |
| | Cornering | N.A. | |
| | Courtesy (map, reading) | Std. (Map) | |
| | Door lock, ignition | N.A. | |
| | Engine compartment | N.A. | |
| | Fog | Opt. | |
| | Glove compartment | N.A. | Std. |
| | Trunk | Std. | |
| | Illuminated entry system (list lamps, activation) | N.A. | |
| | Other | N.A. | |
| | | | |
| Mirrors | Day / night (auto, man.) | Std. (Man.) | |
| | L.H. (remote, power, heated) | Std. (Power) | |
| | R.H. (convex, remote, power, heated) | Std. (Convex, Power) | |
| | Visor vanity (RH / LH, illuminated) | Std. (RH) | |
| Navigation system (describe) | | N.A. | |
| Parking brake - auto release (warning light) | | N.A. | |

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR

Model Year 1994 Issued June 1993 Revised (·)

## METRIC (U.S. Customary)

Model Code / Description

| RS , LS , GS - R |
|---|

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

| | | | |
|---|---|---|---|
| Power equipment | Deck lid (release, pull down) | | N.A. |
| | Door locks (manual, automatic, describe system) | | Std. (Semi - Automatic , Motorized) *1 |
| | Seats | 2 - 4 - 6 way, etc. | N.A. |
| | | Reclining (R.H., L.H.) | N.A. |
| | | Memory (R.H., L.H., present, recline) | N.A. |
| | | Support (lumbar , hip , thigh , etc.) | Std. (Lumber , Front L.H.) |
| | | Heated (R.H., L.H., other) | N.A. |
| | | | |
| | Side windows | | Std. |
| | Vent windows | | N.A. |
| | Rear windows | | N.A. |
| Radio systems | Antenna (location, whip, w / shield, power) | | Std. (Rear L.H. , Whip type, Power) |
| | Standard | AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc. | AM, FM, Stereo Tape , Theft deterrent |
| | Optional | | N.A. |
| | Speaker (number, location) | | Std. (4, Front side door & rear side lining)<br>Std. (6, Front side door & rear side lining) *3<br>Opt. (2, Front side door ) *2 |
| Roof : open air of fixed (flip - up, sliding, "T") | | | Std. (Sliding ) *1 |
| Speed control device | | | Std. *1 |
| Speed warning device (light, buzzer, etc) | | | N.A. |
| Tachometer (rpm) | | | Std. |
| Telephone system (describe) | | | N.A. |
| Theft deterrent system | | | Std. (Steering lock) |

*1 : LS , GS-R *2 : RS , LS *3 : GS-R

### Trailer Towing

| | | |
|---|---|---|
| Towing capable | Yes / No | Yes |
| Engine / transmission / axle | Std / Opt | Std. |
| Tow class (I,II,III)* | Std / Opt | I |
| Max. gross trailer wgt. (lbs.) | Std / Opt | 450 (1000) |
| Max. trailer tongue load (lbs.) | Std / Opt | 45 (100) |
| 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 ACURA INTEGRA 3 DOOR

Model Year 1994 Issued June 1993 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 | SAE Ref. No. | RS , LS , GS - R |
|---|---|---|
| **Width** | | |
| Tread (front) | W101 | 1475 |
| Tread (rear) | W102 | 1470 |
| Vehicle width | W103 | 1710 |
| Body width at SgRP (front) | W117 | 1690 |
| Vehicle width (front doors open) | W120 | 3738 |
| Vehicle width (rear doors open) | W121 | N.A. |
| Tumble - home (degrees) | W122 | 25°30' |
| Outside mirror width | W410 | 1940 |
| **Length** | | |
| Wheelbase | L101 | 2570 |
| Vehicle length | L103 | 4380 |
| Overhang (front) | L104 | 915 |
| Overhang (rear) | L105 | 893 |
| Upper structure length | L123 | 2680 |
| Rear wheel C / L "X" coordinate | L127 | 2570 |
| **Height*** | | |
| Passenger distribution (front / rear) | PD1,2,3 | 2 / 2 |
| Trunk / cargo load | - | 45 |
| Vehicle height | H101 | 1290 |
| Cowl point to ground | H114 | 866 |
| Deck point to ground | H138 | 958 |
| Rocker panel - front to ground | H112 | 170 |
| Rocker panel - rear to ground | H111 | 152 |
| Windshield slope angle (degrees) | H122 | 63° |
| Backlight slope angle (degrees) | H121 | 73° |
| **Ground Clearance*** | | |
| Front bumper to ground | H102 | 150 |
| Rear bumper to ground | H104 | 192 |
| Bumper to ground [front at curb mass (wt.)] | H103 | 157 |
| Bumper to ground [rear at curb mass (wt.)] | H105 | 260 |
| Angle of approach (degrees) | H106 | 14° |
| Angle of departure (degrees) | H107 | 15° |
| Ramp breakover angle (degrees) | H147 | 10° |
| Axle differential to ground (front / rear) | H153 | N.A. |
| Min. running ground clearance | H156 | RS , LS : 109 GS-R : 106 |
| Location of min. run. grd.clear. | | RS , LS : Front end of Exhaust Muffler<br>GS - R : Pre-chamber of Exhaust pipe |

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

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

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR
Model Year 1994 Issued June 1993 Revised (-)

## METRIC (U.S. Customary)
## Vehicle Dimensions

See Key Sheets for definitions

| Model Code / Description | SAE Ref. No. | RS | LS | GS-R |
|---|---|---|---|---|
| **Front Compartment** | | | | |
| SgRP front, "X" coordinate | L31 | 1417 | | |
| Effective head room | H61 | 980 | 962 | |
| Max. eff. leg room (accelerator) | L34 | 1085 | | |
| SgRP to heel point | H30 | 205 | | |
| SgRP to heel point | L53 | 850 | | |
| Back angle (degrees) | L40 | 25° | | |
| Hip angle (degrees) | L42 | 93° | | |
| Knee angle (degrees) | L44 | 125°42' | | |
| Foot angle (degrees) | L46 | 92°42' | | |
| Design H - point front travel | L17 | 240 | | |
| Normal driving & riding seat track trvl. | L23 | 240 | | |
| Shoulder room | W3 | 1314 | | |
| Hip room | W5 | 1278 | | |
| Upper body opening to ground | H50 | 1212 | | |
| Steering wheel maximum diameter * | W9 | 375 | | |
| Steering wheel angle (degrees) | H18 | 22°36' | | |
| Accel. heel pt. to steer. whl. cntr | L11 | 436 | | |
| Accel. heel pt. to steer. whl. cntr | H17 | 584 | | |
| Underpressed floor covering thickness | H67 | 14 | | |
| **Rear Compartment** | | | | |
| SgRP point couple distance | L50 | 673 | | |
| Effective head room | H63 | 890 | | |
| Min. effective leg room | L51 | 714 | | |
| SgRP (second to heel) | H31 | 230 | | |
| Knee clearance | L48 | -45 | | |
| Shoulder room | W4 | 1240 | | |
| Hip room | W6 | 1119 | | |
| Upper body opening to ground | H51 | N.A. | | |
| Back angle (degrees) | L41 | 28° | | |
| Hip angle (degrees) | L43 | 72°30' | | |
| Knee angle (degrees) | L45 | 59° | | |
| Foot angle (degrees) | L47 | 108° | | |
| Depressed floor covering thickness | H73 | 20 | | |
| **Luggage Compartment** | | | | |
| Usable luggage capacity [L (cu. ft.)] | V1 | 377 | | |
| Liftover height | H195 | 756 | | |

## Interior Volumes (EPA Classification)

| | |
|---|---|
| Vehicle class | Sub compact |
| Interior volume index including trunk / cargo (cu. ft.)** | [ 90.1 (Hatchback) + 95.1 (Sedan) ] ÷ 2 = 92.6 |
| Trunk / cargo index (cu. ft.) | 13.321 |

* See page 14.
** See definition page 33.
All linear dimensions are in millimeters (inches) unless otherwise noted.

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR

Model Year 1994 Issued June 1993 Revised (·)

## METRIC (U.S. Customary)

### Vehicle Dimensions

See Key Sheets for definitions

| Model Code / Description | SAE Ref. No. | RS, LS, GS - R |
|---|---|---|
| **Station Wagon / MPV*- Third Seat** | | |
| Seat facing direction | SD1 | N.A. |
| SgRP couple distance | L85 | |
| Shoulder room | W85 | |
| Hip room | W86 | |
| Effective leg room | L86 | |
| Effective head room | H86 | |
| SgRP to heel point | H87 | |
| Knee clearance | L87 | |
| Back angle (degrees) | L88 | |
| Hip angle (degrees) | L89 | |
| Knee angle (degrees) | L90 | |
| Foot angle (degrees) | L91 | |
| **Station Wagon / MPV*- Cargo Space** | | |
| Cargo length (open front) | L200 | N.A. |
| 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 [$m^3$ ($ft.^3$)] | V2 | |
| Hidden cargo volume index [$m^3$ ($ft.^3$)] | V4 | |
| Cargo volume index - rear of 2 - seat | V10 | |
| Cargo volume index* | V6 | |
| Cargo width at floor* | W500 | |
| Maximum cargo height* | H505 | |
| **Hatchback - Cargo Space** | | |
| Cargo length at front seatback height | L208 | 1425 |
| Cargo length at floor (front) | L209 | 1548 |
| Cargo length at second seatback height | L210 | 770 |
| Cargo length at floor (second) | L211 | 959 |
| Front seatback to load floor height | H197 | 472 |
| Second seatback to load floor height | H198 | 448 |
| Cargo volume index [$m^3$ ($ft.^3$)] | V3 | 0.69 |
| Hidden cargo volume index [$m^3$ ($ft.^3$)] | V4 | N.A. |
| Cargo volume index - rear of 2 - seat | V11 | 0.45 |

All linear dimensions are in millimeters (inches) unless otherwise noted.
*MPV - Multipurpose Vehicle

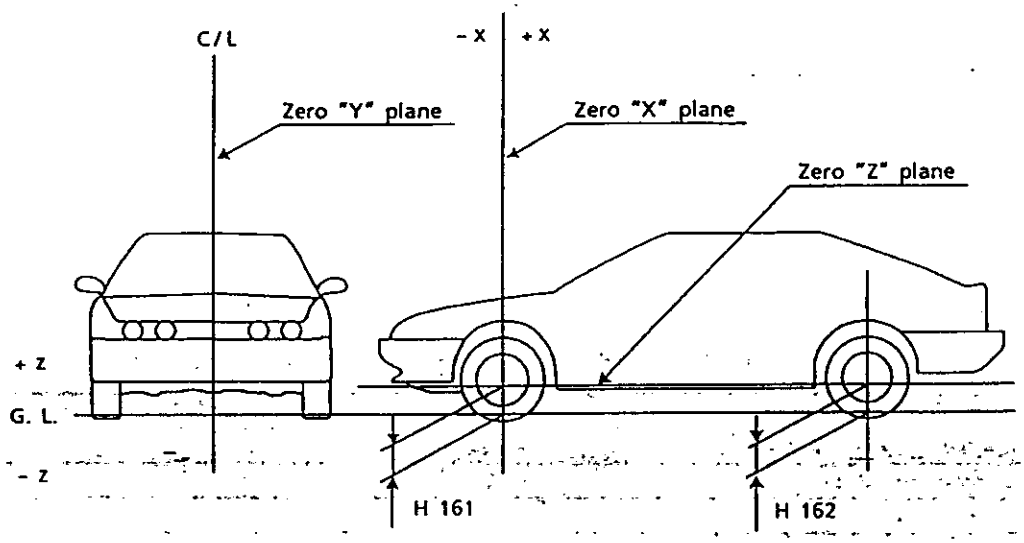
# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR
Model Year 1994 Issued June 1993 Revised (-)

## METRIC (U.S. Customary)

| Model Code / Description Body type | RS , LS , GS - R |
|---|---|

### Vehicle Fiducial Marks

| Fiducial Mark Number* | | Define Coordinate Location |
|---|---|---|
| Front (1)<br>Front (2)<br>Rear (1)<br>Rear (2)<br>Note: Provide 3 of 4 Fiducial Mark Locations | |  |
| Front | W21** | — |
| | L54** | — |
| | H81** | — |
| | H161** | 275 |
| | H163** | — |
| Rear | W22** | — |
| | L55** | — |
| | H82** | — |
| | H162** | 283 |
| | H164** | — |

* Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks.
** Reference - SAE Recommended Practice J1100 - Motor Vehicle Dimensions.
All linear dimensions are in millimeters (inshes) unless otherwise noted.

# MVMA Specifications

Vehicle Line ACURA INTEGRA 3 DOOR

Model Year 1994 Issued June 1993 Revised (-)

## METRIC (U.S. Customary)

| | | Vehicle Mass (weight) | | | | | | % PASS MASS DISTRIBUTION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CURB MASS, kg. (lb.)* | | | SHIPPING MASS kg(lb)*** | ETWC** Code | | Pass in Front | | Pass in Rear | |
| Code | Model | Front | Rear | Total | | Without Air Con | With Air Con | Front | Rear | Front | Rear |
| DC434 | INTEGRA 3 DOOR RS 5M/T | 713 (1572) | 434 (957) | 1147 (2529) | 1115 (2458) | P | P | 45 | 55 | 18 | 82 |
| DC444 | INTEGRA 3 DOOR RS 4A/T | 734 (1618) | 432 (952) | 1166 (2570) | 1134 (2499) | P | P | 45 | 55 | 18 | 82 |
| DC435 | INTEGRA 3 DOOR LS 5M/T | 755 (1664) | 444 (979) | 1199 (2643) | 1167 (2572) | — | Q | 45 | 55 | 18 | 82 |
| DC445 | INTEGRA 3 DOOR LS 4A/T | 776 (1711) | 442 (974) | 1218 (2685) | 1186 (2614) | — | Q | 45 | 55 | 18 | 82 |
| DC234 | INTEGRA 3 DOOR GS-R 5M/T | 768 (1693) | 442 (974) | 1210 (2667) | 1178 (2596) | — | Q | 45 | 55 | 18 | 82 |

* Reference - SAE J1100 Motor vehicle dimensions,curb weight definition. This curb mass is without air conditioner.

** 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

Vehicle Line ACURA INTEGRA 3 DOOR
Model Year 1994 Issued June 1993 Revised (-)

METRIC (U.S. Customary)

| Code | Equipment | Optional Equipment Differential Mass (weight)* MASS, kg. (lb.) Front | Rear | Total | Remarks Restrictions, Requirements |
|---|---|---|---|---|---|
| | Air Conditioner | 19 (42) | - 1 ( - 2) | 18 (40) | For RS |
| | | | | | |
| | | | | | |
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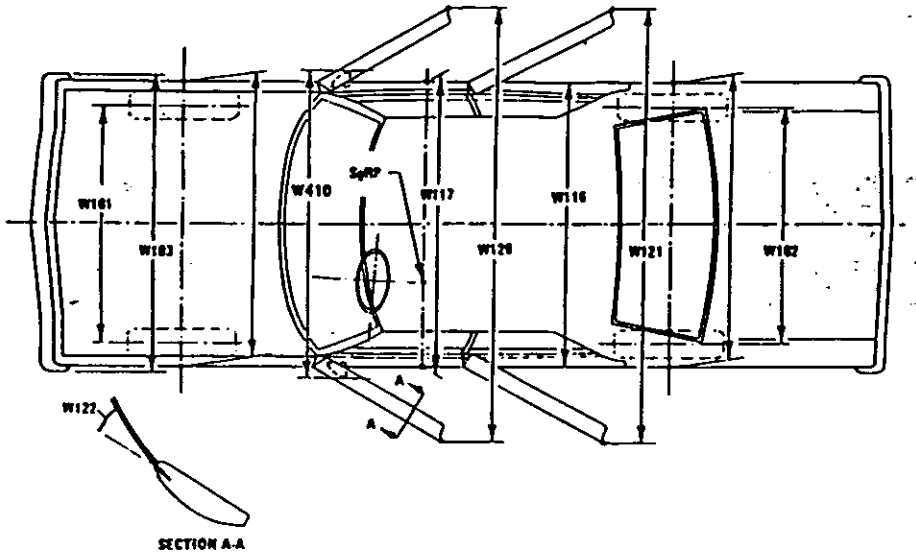
| | | | | | |

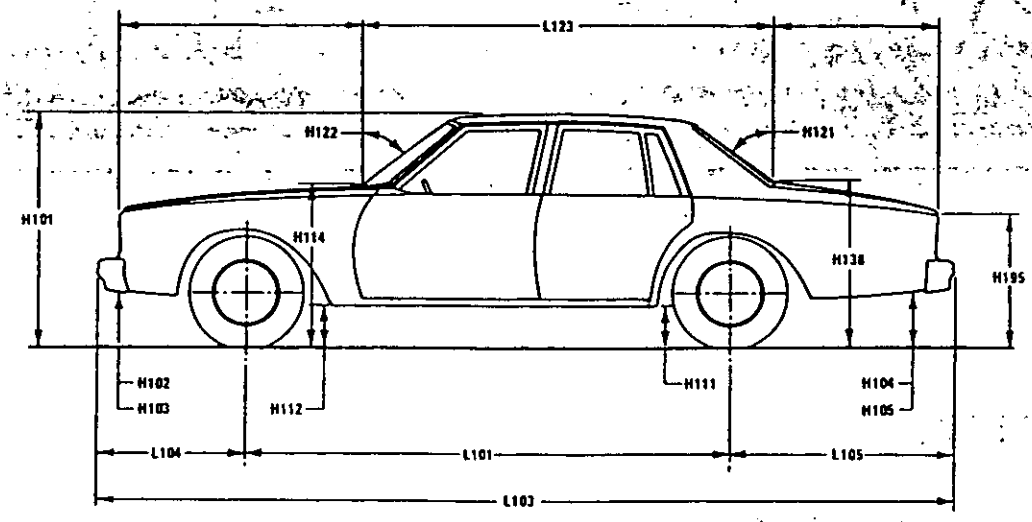
* Also see Engine - General Section for dressed engine mass (weight).

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

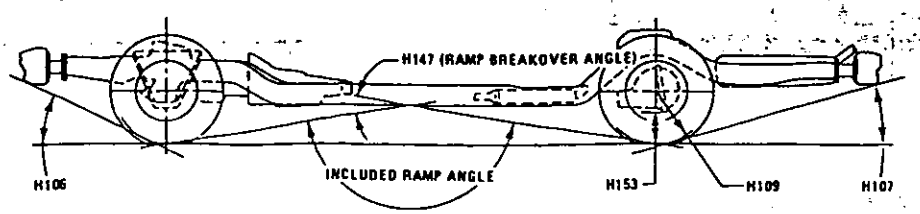
## Exterior Width



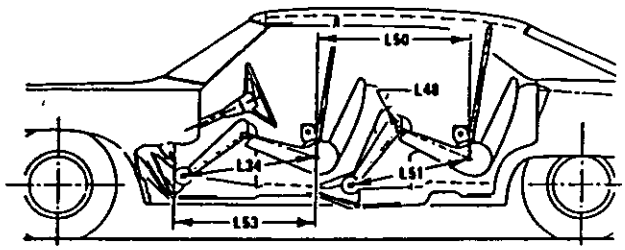

## Exterior Length & Height

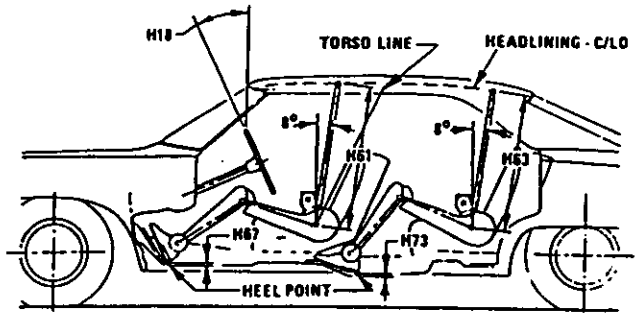


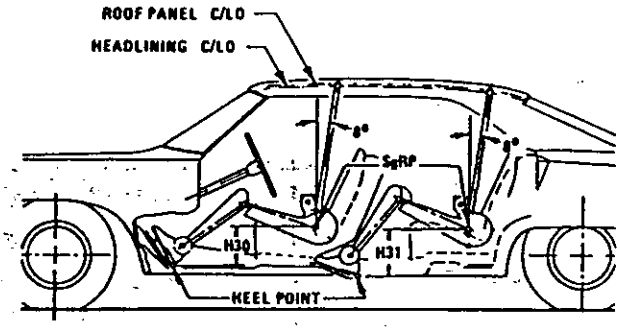

## Exterior Ground Clearance

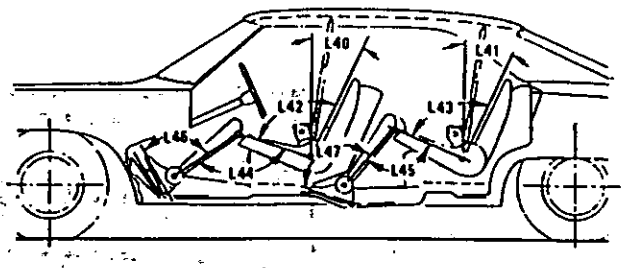


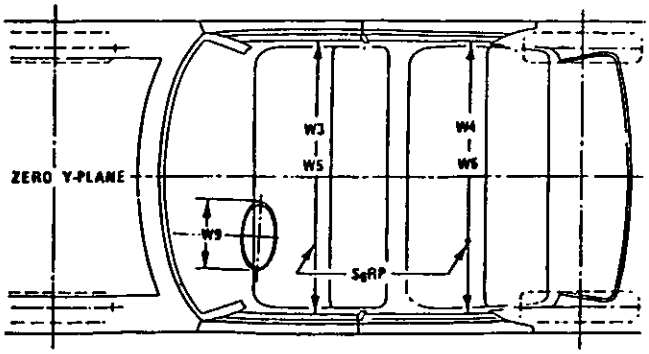
## Interior Vehicle And Body Dimensions – Key Sheet

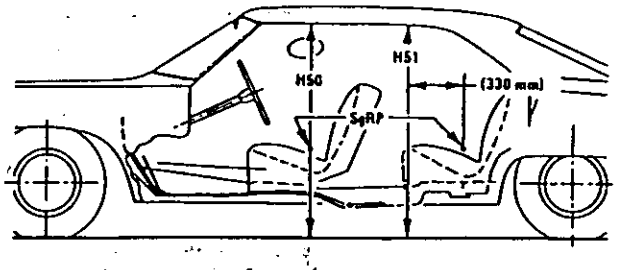


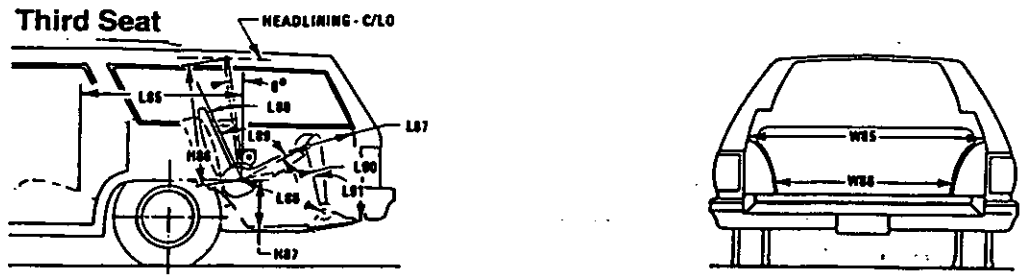



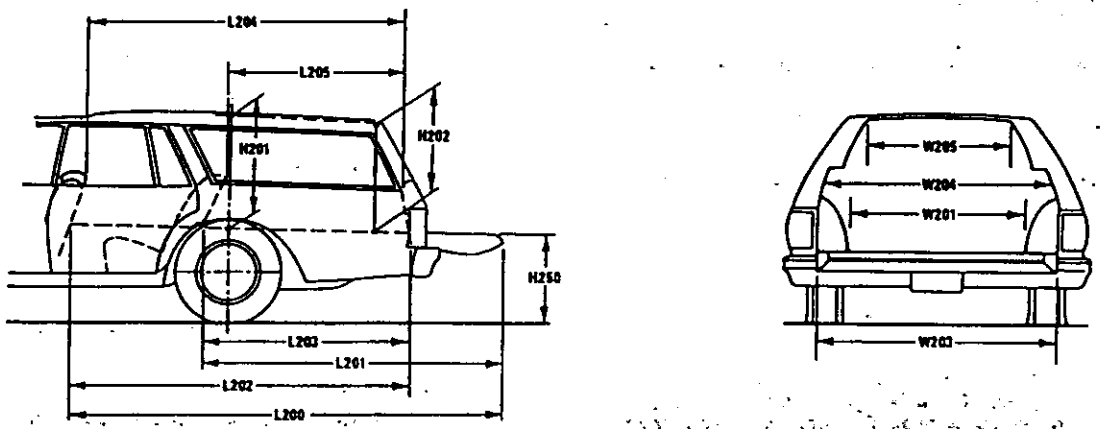



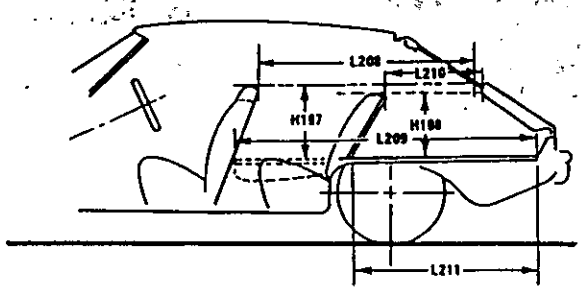
**Interior Vehicle And Body Dimensions – Key Sheet**



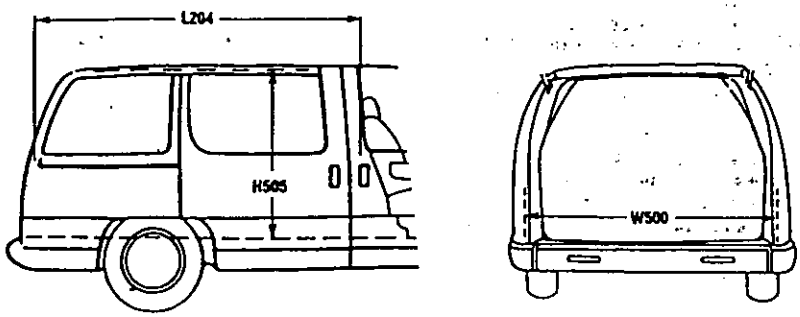

Cargo Space




Station Wagon




Hatchback




Multipurpose Vehicle

## 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.

## 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 (4.0in.).

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 the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).

L48 KNEE CLEARANCE – SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).

L50 SgRP COUPLE DISTANCE – SECOND. The dimension measured horizontally from the driver SgRP – front to the SgRP – second.

L51 MINIMUM EFFECTIVE LEG ROOM – SECOND. The dimension measured along a line from the ankle pivot center to the SgRP – second plus 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 wheelhousings 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.

## Interior Vehicle And Body Dimensions – Key Sheet
## Dimensions Definitions

V2 STATION WAGON

Measured in inches:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V5 TRUCKS AND MPV'S WITH OPEN AREA.

Measured in inches:

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

Measured in mm:

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

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

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

Measured in mm:

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

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

V10 STATION WAGON CARGO VOLUME INDEX.

Measured in inches:

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

Measured in mm:

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

**Hatchback – Cargo Space Dimensions**

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

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.

L209 CARGO LENGTH AT FLOOR – FRONT. 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:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:

Measured in inches:

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

Measured in mm:

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

# MVMA Specifications

## METRIC (U.S. Customary)

### Index