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# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC ( U.S. Customary )

## 1992

Manufacturer  HONDA MOTOR CO., LTD.	Vehicle Line  INTEGRA	
Mailing Address No. 1-1, 2 chome, Minami - Aoyama, Minato - ku, Tokyo, Japan	Issued October 1991	Revised February 1992

Direct questions concerning these specifications to the manufacturer listed above.

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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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### 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

Vehicle Line INTEGRA  
Model Year 1992 Issued October 1991 Revised (-) February 1992

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## Vehicle Origin

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

## Vehicle Models

Vehicle Models

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code) *1	No. of Designated Seating Positions (Front / Rear)	Max. Trunk / Cargo Load - Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
INTEGRA 3 DOOR RS (FWD)	Dec. 1991	ACURA , INTEGRA , 5M , HATCHBACK , (DA934)	2/3	45 (100)	25 / 31
		ACURA , INTEGRA , 4A , HATCHBACK , (DA944)			23 / 29
INTEGRA 3 DOOR LS (FWD)		ACURA , INTEGRA , 5M , HATCHBACK , (DA935)			25 / 31
		ACURA , INTEGRA , 4A , HATCHBACK , (DA945)			23 / 29
INTEGRA 3 DOOR GS (FWD)		ACURA , INTEGRA , 5M , HATCHBACK , (DA936,937*2)			25 / 31
		ACURA , INTEGRA , 4A , HATCHBACK , (DA946,947*2)			23 / 29
INTEGRA 4 DOOR RS (FWD)	Dec. 1991	ACURA , INTEGRA , 5M , SEDAN , (DB154)	2/3	45 (100)	25 / 31
		ACURA , INTEGRA , 4A , SEDAN , (DB164)			23 / 29
INTEGRA 4 DOOR LS (FWD)		ACURA , INTEGRA , 5M , SEDAN , (DB155)			25 / 31
		ACURA , INTEGRA , 4A , SEDAN , (DB165)			23 / 29
INTEGRA 4 DOOR GS (FWD)		ACURA , INTEGRA , 5M , SEDAN , (DB156,157*2)			25 / 31
		ACURA , INTEGRA , 4A , SEDAN , (DB166,167*2)			23 / 29
INTEGRA 3 DOOR GSR (FWD)	March 1992	ACURA , INTEGRA , 5M , HATCHBACK , (DB238)	2/3	45 (100)	24 / 29

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

\* 1 5M: 5 Speed manual transmission

4A: 4 Speed automatic transmission

\* 2 DA937, DA947, DB157, DB167 : with leather seat cover

# MVMA Specifications

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### 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
E N G I N E	Engine code	B18A1	B18A1	B17A1	
	Displacement Liters (in³)	1.8 (112)	1.8 (112)	1.7 (102)	
	Induction system (FI, Carb, etc.)	PGM - FI *1	PGM - FI *1	PGM - FI *1	
	Compression ratio	9.2	9.2	9.7	
	SAE Net at RPM	Power <del>kW</del> (bhp)	(140) @6300	(160) @7600	
		Torque <del>Nm</del> (lb.ft.)	(126) @5000	(117) @7000	
T R A N S	Exhaust single, dual	dual	dual	dual	
	Transmission / Transaxle	5M	4A	5M	
	Axle Ratio (std. first)	4.27	4.43	4.40	

\* 1 : PROGRAMMED - FUEL INJECTION

Series Availability		Power Teams (A - B - C - D)	
Model	Code	Standard	Optional
INTEGRA 3 DOOR RS	DA934	A	N.A.
	DA944	B	N.A.
INTEGRA 3 DOOR LS	DA935	A	N.A.
	DA945	B	N.A.
INTEGRA 3 DOOR GS	DA936, DA937	A	N.A.
	DA946, DA947	B	N.A.
INTEGRA 4 DOOR RS	DB154	A	N.A.
	DB164	B	N.A.
INTEGRA 4 DOOR LS	DB155	A	N.A.
	DB165	B	N.A.
INTEGRA 4 DOOR GS	DB156, DB157	A	N.A.
	DB166, DB167	B	N.A.
INTEGRA 3 DOOR GSR	DB238	C	N.A.

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## METRIC (U.S. Customary)

Engine Description  
 Engine Code

• B17A1	B18A1
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### 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 (3.19)	
Stroke	81.4 (3.20)	89.0 (3.50)
Bore spacing (C/L to C/L)	90.0 (3.54)	
Cylinder block material & mass kg (lbs.) (machined)	Aluminum silicon alloy, 22.2 (48.9)	Aluminum silicon alloy, 21.1 (46.5)
Cylinder block deck height	263 (10.4)	271.95 (10.71)
Cylinder block length	419.5 (16.52)	427.0 (16.81)
Deck clearance (minimum) (above or below block)	60 (below block)	
Cylinder head material & mass kg (lbs.)	Aluminum silicon alloy, 12.8 (28.2)	Aluminum silicon alloy, 10.7 (23.6)
Cylinder head volume (cm <sup>3</sup> )	42.7	45.0
Cylinder liner material	Cast iron alloy	
Head gasket thickness (compressed)	0.7 ± 0.05 (0.028 ± 0.002)	
Minimum combustion chamber total volume (cm <sup>3</sup> )	193.0	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, 5.1 (11.2)	Aluminum silicon alloy, 4.1 (9.0)
Exhaust manifold material & mass [kg (lbs.)]**	Cast iron alloy, 6.05 (13.34)	Cast iron alloy, 6.30 (13.89)
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	• 4
	Material and type (elastomeric, hydroelastic, hydraulic, damper, etc.)	Rubber elastomeric
	Added isolation (sub - frame, crossmember, etc.)	N.A. Cross beam
Total dressed engine mass (wt) dry ***	141 (310.8)	133 (293)

### Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy, 289 (10.19)	Aluminum alloy, 280 (9.88)
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### Engine - Camshaft

Location	In cylinder head	
Material & mass kg (weight, lbs.)	Cast iron alloy, IN 2.27 (5.00) EXH 2.26 (4.98)	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 (1.02 / 0.38)

\* 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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**Engine Code**

- B17A1

**B 18A1**

### 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.)]*	Carbon steel, 0.487 (1.07) Include Connrod Cap , Bit & Nut
Length (axes C/L to C/L) mm	137 (5.39)

### Engine - Crankshaft

Material & mass (kg.,(weight, lbs.))*			Carbon steel , 15.1 (33.3)	Carbon steel , 15.9 (35.1)
End thrust taken by bearing (no.)			2	
Length & number of main bearings			20 (0.79) , * 5	
Seal (material, one, two piece design, etc.)	Front	Left	Rubber, 4 piece design	
	Rear	Right	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) , Less 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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### ~~Engine Description~~

• B17A1	B18A1	
5M	5M	4A

### Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Std.		
Coolant fill location (rad., bottle)		Rad.		
Radiator cap relief valve pressure [kPa (psi)]		88 ± 14.7 (12.8 ± 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 5800 rpm (136ℓ / 5800 rpm)	36 at 6000 rpm (135ℓ / 6800 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.)	5.9 (6.2)	• 6.0 (6.3)	• 5.8 (6.1)
	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 , 2.5 (5.60)	Brass , 5.33 (11.75)	Aluminum , 4.32 (9.52)
	Width	670	668	670
	Height	325	325	325
	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)	MITSUBA 4 , Flex , Polypropylene	ND 5 , Flex , Polypropylene / MITSUBA 4 , Flex , Polypropylene	
	Diameter & projected width	280 , 52-100	280 , 48-100 / 280 , 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%		
	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 Code

• B17A1	B18A1
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## ENGINE - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

ENGINE - Fuel System		(See supplemental page for details on fuel injection, supercharger, blower, etc.)	
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)]	343 ± 5 (49.8 ± 0.7)	294 ± 5 (36.3 ± 0.7)
Idle spd. - rpm (spec. neutral or drive and propane if used)	Manual	800 (Neutral)	750 (Neutral)
	Automatic	N.A.	750 (Neutral)
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water thermostatic	
Air cleaner type		Paper element	
Fuel filter (type/location)		Paper element / Engine compartment	
Fuel pump	Type (elec. or mech.)	Electrical	
	Location (eng., tank)	Inside of fuel tank	
	Pressure range [kPa (psi)]	441 ~ 588 (64.0 ~ 85.5)	
	Flow rate at regulated pressure [L (gal) / hr @ kPa (psi)]	75 (19.8) at 343 (49.8)	85 (22.5) at 250 (36.25)

## 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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~~Engine Description~~  
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* B17A1	B18A1	
5M	5M	4A

## Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modification, other)		CAT	CAT / EGR
	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.	Controlled flow
		Exhaust source Point of exhaust injection (spacer, carburetor, manifold, other)	N.A.	Cylinder head port, intake manifold
	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	
Crankcase 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	
Evaporative 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)		dual	
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		1, reverse flow, stainless steel, 14.5 (31.9)	1, reverse flow, stainless steel, 10.5 (23.1)
Resonator no. & type		N.A.	
Exhaust pipe	Branch o.d., wall thickness	N.A.	
	Main o.d., wall thickness	50.8, 1.5	48.6, 1.6
	Material & Mass [kg (weight lbs)]	Carbon steel, 5.6 (12.3)	Carbon steel, 2.9 (6.4)
Intermediate pipe	Main o.d., wall thickness	50.8, 1.6	
	Material & Mass [kg (weight lbs)]	Carbon steel, 7.5 (16.5)	Carbon steel, 6.8 (15.0)
Tail pipe	Main o.d., wall thickness	50.8, 1.6	45.0, 1.6
	Material & Mass [kg (weight lbs)]	Carbon steel	

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### Ø 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.
Ø Gear ratios	1st	3.31	3.23
	2nd	2.11	1.90
	3rd	1.46	1.27
	4th	1.11	0.97
	5th	0.88	0.74
	6th	N.A.	
	Reverse	3.00	
Synchronous meshing (specify gears)		All gears	
Shift lever location		Floor	
Trans. case mat'l. & mass kg (lbs.)*		Aluminum silicon alloy	
Lubricant	Capacity [L (pt) (qt.)]	2.3 (4.9)	2.4 (5.1)
	Type recommended	SF or SG	

### 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)		Cable	
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	—	
	Released	—	
Assist (spring, power / percent, nominal)		2.0 kgf	
Type pressure plate springs		Diaphragm	
Total spring load (nominal, new) N (lbs)		3830 - 4270 (841 - 960)	
Clutch facing	Facing mfg. & material coding	F.C.C	
	Facing material & construction	Carbon steel	
	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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B18A1

### Automatic Transmission / Transaxle

Trade Name		Automatic
Type and special features (describe)		4 - speed automatic transmission with lock - up clutch
Gear selector	Location (column, floor, other)	Floor
	Ltr./No. designation (e.g. PRND21)	6, P - R - N - D - 54 - 2
	Shift interlock (yes, no, describe)	Yes
Gear ratios Ø	1st	2.65
	2nd	1.48
	3rd	0.97
	4th	0.72
	5th	N.A.
	6th	N.A.
	Reverse	1.90
Max. upshift speed - drive range [km/h (mph)]		1 - 2 : 55 (34), 2 - 3 : 106 (66), 3 - 4 : 169 (105)
Max. kickdown speed - drive range [km/h (mph)]		4 - 3 : 137 (85), 3 - 2 : 91 (57), 2 - 1 : 47 (29)
Min. overdrive speed [km/h (mph)]		N.A.
Torque converter	Number of elements	3
	Max. ratio at stall	2.55 at 2600 rpm
	Type of cooling (air, liquid)	Air & Liquid
	Nominal diameter	244
	Capacity factor "K"	—
Lubricant	Capacity [refill L (pt.)]	6.3 (13.3)
	Type recommended	DEXRON II
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Std., External, Liquid
Transmission mass [kg (lbs)] & case material **		Aluminum 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 ÷ √torque

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

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Engine Description  
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5M	5M	4A

### 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	4.43
Transfer ratio and method (chain, gear, etc.)			N.A.		
Front drive unit	Ring gear o.d.		193.1	192.2	194.1
	No. of teeth	Pinion	15		14
		Ring gear	66	64	62

### 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.)]	2.4 (4.4)	6.3 (13.3)
	Type recommended	SF or SG	DEXRON II

### 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 378		
		Right	26 x 378		
	Automatic transaxle	Left	26 x 378		
		Right	26 x 378		
	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.  
(Front Wheel Drive)

## MVMA Specifications

Vehicle Line INTEGRA

Model Year 1992 Issued October 1991 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 Shafts - Rear Wheel Drive

Propeller shafts - Rear wheel drive		N.A.	
Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			
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.  
(Rear Wheel Drive)

# MVMA Specifications

Vehicle Line INTEGRA  
Model Year 1992 Issued October 1991 Revised (-) February 1992

METRIC (U.S.Customary)

Model Code / Description And / Or Body type  
Engine Code / Description Series

	HATCHBACK	SEDAN
*1	RS (5M) , LS (5M)	
*2	RS (4A) , GS(5M) , * GSR	
*3	LS (4A) , GS (4A)	
*4	RS , LS , GS , * GSR	
*5	LS (4A) , GS (4A)	
*6	RS	
*7	LS , GS , * GSR	
*8	RS , LS , GS , * GSR	RS , LS (5M) , GS (5M)
*9	—	LS (4A) , GS (4A)

## Suspension - General Including Electronic Controls

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 MFG. CO., LTD.	
	Piston diameter	Front : 25 (0.98) , Rear : 25 (0.98)	
	Rod diameter	Front : 12.5 (0.49) , Rear : 12.5 (0.49)	

## Suspension - Front

Type and description		Independent, Double wishbone with coil spring
Travel	Full jounce (define load condition)	66.8 (2.63)
	Full rebound	44.2 (1.74)
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)	331 x 64 (13.03 x 2.52) *1, 334 x 64 (13.15 x 2.52) *2, 338 x 64 (13.31 x 2.52) *3
	Spring rate [N / mm (lb. / in.)]	47.6 (272.1) *4 , 49.4 (282.2) *5
	Rate at wheel [N / mm (lb. / in.)]	22.0 (125.4) *4 , 22.8 (129.9) *5
	Type (link, linkless, frameless)	Linkless
Stabilizer	Material & O.D. bar / tube, wall thickness	Spring steel , 23.0 (0.90)

## Suspension - Rear

Type and description		Independent, Double wishbone with coil spring
Travel	Full jounce (define load condition)	52.0 (2.05)
	Full rebound	94.8 (3.73)
Spring	Type (coil, leaf, other & material)	Coil spring, Steel
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	373.5 x 62.4 ~ 74.1 (14.70 x 2.46 ~ 74.16) *6 379.0 x 62.4 ~ 74.1 (14.92 x 2.46 ~ 74.16) *7
	Spring rate [N / mm (lb. / in.)]	25.5 (145.3)
	Rate at wheel [N / mm (lb. / in.)]	15.3 (87.2)
	Insulators (type & material)	Mounting, Rubber
	If leaf	No. of leaves
		Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & O.D. bar / tube, wall thickness	Spring steel , 14.7 (0.58) *8 15.9 (0.63) *9
Track bar (type)		Independent, Double wishbone with coil spring

## MVMA Specifications

Vehicle Line           INTEGRA            
Model Year 1992 Issued October 1991 Revised (-) February 1992

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

METRIC (U.S. Customary)		HATCHBACK	SEDAN
<del>Model Code / Description And / Or</del>	Body type Series	RS, LS	
<del>Engine Code / Description</del>		GS, * GSR	

## Brakes - Service

Brakes - Service				Split service brake		
Description			NISSIN, Disk			
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.)			N.A.			
Booster type (remote, integral, vac., hyd., etc.)			Integral, Vac.			
Vacuum	Source (inline, pump, etc.)		Inline			
	Reservoir (volume in. <sup>3</sup> )		N.A.			
	Pump - type (elec, gear driven, belt driven)		N.A.			
Traction control	Operational speed range		N.A.			
	Type (engine or brake intervention)		N.A.			
Anti - lock device	Front / rear (std., opt., n.a.)		N.A. *1 , Std. / Std. *2			
	Manufacturer		N.A. *1 , NISSIN *2			
	Type (electronic, mech.)		N.A. *1 , Electronic *2			
	Number sensors or circuits		N.A. *1 , 4 *2			
	Number anti - lock hydraulic circuits		N.A. *1 , 3 *2			
	Integral or add - on system		N.A. *1 , Integral *2			
	Yaw control (yes, no)		N.A.			
	Hydraulic power source (elec., vac, mfr., pwr. strg.)		N.A. *1 , Electronic *2			
Effective area [cm <sup>2</sup> (in. <sup>2</sup> )]*			Front: 200.0 (31.0) , Rear: 84.0 (13.0)			
Gross Lining area [cm <sup>2</sup> (in. <sup>2</sup> )]**(F / R)			200.0 (31.0) / 84.0 (13.0)			
Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]*** (F / R)			1320.0 (204.6) / 804.0 (124.6)			
Rotor	Outer working diameter	F / R	262 (10.3) / 239 (9.4)			
	Inner working diameter	F / R	160 (6.3) / 174 (6.9)			
	Thickness	F / R	21 (0.83) / 10 (0.39)			
	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 (2.25) , Rear : 30.23 (1.19)			
Master cylinder	Bore / stroke	<del>F / R</del>	23.81 (0.94) / 30 (0.59) *1 , 25.4 (1.00) / 30 (0.59) *2			
Pedal arc ratio			4.0			
Line pressure at 445N (100 lb.) pedal load [kPa (psi)]			10780 (1564) *1 11270 (1635) *2			
Lining clearance		F / R	0 / 0			
Brake lining	Front Wheel	Bonded or riveted (rivets / seq.)		Bonded		
		Rivet size		N.A.		
		Manufacturer		NISSIN		
		Lining code *****		SUMITOMO M9226FE		
		Material		Resin mold		
		****	Primary or out - board	116.1 × 50.1 × 10 (4.57 × 1.97 × 0.39)		
		Size	Secondary or in - board	116.1 × 50.1 × 10 (4.57 × 1.97 × 0.39)		
		Shoe thickness (no lining)		6.5 (0.26)		
	Rear Wheel	Bonded or riveted (rivets / seq.)		Bonded		
		Manufacturer		NISSIN		
		Lining code *****		JB ND90FF		
		Material		Resin mold		
		****	Primary or out - board	71 × 31 × 7.5 (2.79 × 1.22 × 0.28)		
		Size	Secondary or in - board	71 × 31 × 7.5 (2.79 × 1.22 × 0.28)		
		Shoe thickness (no lining)		5.5 (0.22)		

\* 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                      INTEGRA  
 Model Year 1992 Issued October 1991 Revised (-) February 1992

## METRIC (U.S. Customary)

Model Code / Description And / Or  
 Engine Code / Description = Body type  
 Series

HATCHBACK			SEDAN		
RS	LS	GS, * GSR	RS	LS	GS

## Tires And Wheels (Standard)

Tires And Wheels (Standard)										
Tires	Size (load range, ply)		P195/60R14 85H		P195/60R14 85V			P195/60R4 85H		
	Type (bias, radial, steel, nylon, etc.)		Radial							
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	200 (29)							
		Rear [[kPa (psi)]	200 (29)							
	Rev. / mile - at 70 km/h (45 mph)			890	899		890	899		
Wheels	Type & material		Disk, steel		*1		Disk, steel		*1	
	Rim (size & flange type)		5 1/2 JJ x 14							
	Wheel offset		45 (1.77)							
	Attachment	Type (bolt or stud)	Stud							
		Circle diameter	100 (3.94)							
		Number & size	4, M12 x 1.5P (0.47 x 0.06)							
Spare	Tire and wheel		T105/70D14 4T x 14		T135/70D15 4T x 15		T105/70 D14 4T x 14	T115/70 D14 4T x 15	T135/70D15 4T x 15	
	Storage position & location (describe)		Luggage compartment				Trunk			

\*1 Aluminum alloy

## Tires And Wheels (Optional)

Tire size (load range, ply)	N.A.
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
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 lever
Location of control	Floor
Operates on	Rear wheels
If separate from service brakes	Type (internal or external)
	Drum diameter
	Lining size (length x width x thickness)
	N.A.
	N.A.
	N.A.



# MVMA Specifications

Vehicle Line INTEGRA  
Model Year 1992 Issued October 1991 Revised (-) \_\_\_\_\_

## METRIC (U.S. Customary)

~~Model Code / Description And / Or~~ Body type  
~~Engine Code / Description~~

HATCHBACK	SEDAN
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### 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 (14.76)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.92 (35.83)	11.08 (36.35)	
		Curb to curb (l. & r.)	10.14 (33.27)	10.30 (33.79)	
	Inside rear	Wall to wall (l. & r.)	5.55 (18.21)	5.67 (18.60)	
		Curb to curb (l. & r.)	5.78 (18.96)	5.92 (19.42)	
Scrub Radius *			9.9 (0.39)		
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	17.6	
	Pump (drive)		V. Belt		
	No. wheel turns (stop to stop)		3.53		
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.)		7°20' at 0°		
	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           INTEGRA            
Model Year 1992 Issued October 1991 Revised (-) February 1992

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

~~Model Code / Description And / Of~~      **Body type**  
~~Engine Code / Description =~~

HATCHBACK	SEDAN
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## Wheel Alignment

Wheel Alignment			
Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	$1^{\circ}30' \pm 1^{\circ}$
		Camber (deg.)	$0^{\circ} \pm 1^{\circ}$
		Toe - in outside track - mm (in.)	$0 \pm 2$ ( $0 \pm 0.8$ )
	Service reset*	Caster (deg.)	Pre - set
		Camber (deg.)	Pre - set
		Toe - in - mm (in.)	Adjustable
	Periodic M.V. inspection	Caster (deg.)	15000 mile or 12 months
		Camber (deg.)	15000 mile or 12 months
		Toe - in- mm (in.)	15000 mile or 12 months
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	$-0^{\circ}40' \pm 1^{\circ}$
		Toe - in outside track - mm (in.)	$2 \pm \frac{1}{2}$ ( $0.08 \pm \frac{0.04}{0.08}$ )
	Service reset*	Camber (deg.)	Pre - set
		Toe - in- mm (in.)	Pre - set
	Periodic M.V. inspection	Camber (deg.)	Not specified
		Toe - in- mm (in.)	Not specified

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

### Electrical - Instruments and Equipment

Electrical - Instruments and Equipment			Analog	
Speedometer	Type (analog, digital, std., opt.)		Std.	
	Trip odometer (std., opt., n.a.)		N.A.	
Head-up display	Standard, optional, not available			
	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		Std.		
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 : 3 stage speed included "INT" position		
	Type (optional)	N.A.		
	Blade length	Driver side : 500 (19.69) , Assist side : 475 (18.70)		
	Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]	7003 (1085) 6967 (1080)		
Windshield washer	Type (standard)	Electric power pump		
	Type (optional)	N.A.		
	Fluid level indicator (light, audible)		N.A.	
Rear window wiper, wiper / washer (std., opt., n.a.)		Std.	N.A.	
Horn	Type	Electric Vibrator		
	Number used		2	
Other	Parking Brake/Brake Failure Warning Light, Headlight High Beam Indicator Light, Seat Belt Warning Buzzer & Warning Light, Door Open Warning Buzzer & Warning Light, Tail Gate Open Warning Light, Shift Indicator (for 4A), Cruise Control Indicator Light (H/B LS, GS, *GSR SEDAN LS, GS), Anti Lock Brake Warning Light (H/B GS, *GSR SEDAN GS)			

# MVMA Specifications

Vehicle Line INTEGRA

Model Year 1992 Issued October 1991 Revised (-) February 1992

## METRIC (U.S. Customary)

Engine Code / Description

• B17A1	B18A1	
5M	5M	4A

### Electrical - Supply System

Battery	Manufacturer	YUASA, MATSUSHITA	
	Model, std., (opt.)	70D23R - MF	
	Voltage	12	
	Amps at 0°F cold crank	300	
	Minutes - reserve capacity	100	
	Amps / hrs. - 20 hr. rate	65	
	Location	RH side in engine compartment	
Alternator	Manufacturer	NIPPON DENSO	
	Rating (idle / max. rpm)	• 12V - 80A	
	Ratio (alt. crank / rev.)	• 2.14	
	Output at idle (rpm, park)	Min. 35 A	
	Optional (type & rating)	N.A.	
Regulator	Type	IC regulator, Voltage control	

### Electrical - Starting System

Motor	Manufacturer	NIPPON DENSO	
	Current drain _____ °C (°F)	Not Specified	
	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	
		Engine idling - A	Not Specified	
Spark plug	Manufacturer		NGK, NIPPON DENSO	
	Model		Std. (PFR6G-13, PK20PR-L13) Opt. (PFR7G-13, PK22PR-L13)	Std. (BCPR 5E-11, Q16PR-U11) Opt. (BCPR 6E-11, Q20PR-U11)
	Thread (mm)		14	
	Tightening torque [N·m (lb, ft)]		17.65 (13.02)	
	Gap		1.1 ± 0.1 (0.043 ± 0.004)	
	Number per cylinder		1	
	Distributor		TOYO DENSO	
		Model		TD - 23U TD - 24U

### Electrical - Suppression

Locations & type	N.A.
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# MVMA Specifications

Vehicle Line INTEGRA  
Model Year 1992 Issued October 1991 Revised (-) \_\_\_\_\_

METRIC (U.S. Customary)

Model Code / Description Body type

HATCHBACK	SEDAN
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## Body

Structure	Monocoque construction
Bumper system front - rear	Plastic bumper with energy absorbing plastic form and steel beam.
Anti - corrosion treatment	P.V.C. coating : Under of the vehicle Chipping primer : Hood, roof, fender, front pillar and side sill Rust proof wax : Doors, hood, tail gate and other hollow structures

## Body - Miscellaneous Information

Body - Miscellaneous Information			Acrylic baking	
Type of finish (lacquer, enamel, other)			Iron - zinc alloy coated steel, 14.9 (32.8)	
Hood	Material & mass		Rear	
	Hinge location (front, rear)		Prop	
	Type (counterbalance, prop)		Internal	
	Release control (internal, external)			
Trunk lid	Material & mass		N.A.	Iron - zinc alloy coated steel, 8.3 (18.3)
	Type (counterbalance, other)		N.A.	Torsion bar spring
	Internal release control (elec., mech., n.a.)		N.A.	Mech.
hatchback lid	Material & mass		Iron - zinc alloy coated steel, 9.9 (21.8)	N.A.
	Type (counterbalance, other)		dumper	N.A.
	Internal release control (elec., mech., n.a.)		Mech.	N.A.
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.	Cable
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)		Front	Bucket, Wire & Urethane form	
		Rear	Bench, Urethane form	
		3rd seat	N.A.	
Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.)		Front	Bucket, Wire & Urethane form	
		Rear	Bench, Urethane form	
		3rd seat	N.A.	

## Ø Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized frame
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## MVMA Specifications

Vehicle Line INTEGRA

Model Year 1992 Issued October 1991 Revised (·) \_\_\_\_\_

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

<del>Model Code/Description</del>	Body type
-----------------------------------	-----------

HATCHBACK / SEDAN

## Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)  Standard / optional	First seat	N.A.	N.A.	N.A.
		Second seat	Lap & Shoulder belt	Lap belt	Lap & Shoulder belt
		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	Motorized - 2 - point belt & Manual - lap belt, Knee bolster	N.A.	Motorized - 2 - point belt & Manual - lap belt, Knee bolster
		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 [cm <sup>2</sup> (in. <sup>2</sup> )]		S1	HATCHBACK : 9700 (1504) , SEDAN : 9630 (1493)		
Side glass exposed surface are [cm <sup>2</sup> (in. <sup>2</sup> )] - total 2 - sides		S2	HATCHBACK : 9400 (1457) , SEDAN : 10680 (1655)		
Backlight glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]		S3	HATCHBACK : 9980 (1547) , SEDAN : 8510 (1319)		
Total glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]		S4	HATCHBACK : 29080 (4507) , SEDAN : 28820 (4467)		
Windshield glass (type)			Laminated safety glass		
Side glass (type)			Tempered reinforced glass		
Backlight glass (type)			Tempered reinforced glass		

## Headlamps

Headlamps	
Description - sealed beam, halogen, replaceable bulb, etc.	Semi - sealed beam, halogen replaceable bulb.
Shape	Trapezoid
Lo - beam type (2A1, 2B1, 2C1, etc.)	HB1
Quantity	2
Hi - beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB1
Quantity	2

# MVMA Specifications

Vehicle Line INTEGRA  
 Model Year 1992 Issued October 1991 Revised (-) February 1992

METRIC (U.S. Customary)

Engine Code / ~~Description~~

• B17A1

B18A1

## Ø Climate Control System

Air condition (std., opt., man., auto.)		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	0.97	
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.)		R - 12	
Charge level (lbs. - oz.)		1.322 ~ 1.433 lbs (21.164 ~ 22.928 oz)	
Cold engine lockout switch (yes / no)		—	
Wide open throttle cutout switch (yes / no)		—	

# MVMA Specifications

Vehicle Line INTEGRA  
 Model Year 1992 Issued October 1991 Revised (-) February 1992

## METRIC (U.S. Customary)

~~Model Code / Description~~ Body type

HATCHBACK	SEDAN
-----------	-------

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

Clock (digital, analog)		Standard (Digital)
Compass / thermometer		N.A.
Console (floor, overhead)		Standard (Floor)
Defroster, elec. backlight		Standard
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)		Standard (Remote)
Lamps	Auto head on / off delay, dimming	N.A.
	Cornering	N.A.
	Courtesy (map, reading)	Standard (Map) *3
	Door lock, ignition	N.A.
	Engine compartment	N.A.
	Fog	Standard
	Glove compartment	Standard *2
	Trunk	Standard
	Illuminated entry system (list lamps, activation)	N.A.
	Other	N.A.
Mirrors	Day / night (auto, man.)	Standard (Man.)
	L.H. (remote, power, heated)	Standard (Remote : *1, Power : *2)
	R.H. (convex, remote, power, heated)	Standard (Convex, Remote : *1, Convex, Power : *2)
	Visor vanity (RH / LH, illuminated)	Standard (RH)
Navigation system (describe)		N.A.
Parking brake - auto release (warning light)		N.A.

\* 1 : H/B RS SEDAN RS

\* 2 : H/B LS, GS, \* GSR SEDAN LS, GS

\* 3 : H/B LS, GS, \* GSR SEDAN GS

# MVMA Specifications

Vehicle Line                      INTEGRA  
 Model Year 1992 Issued October 1991 Revised (-) February 1992

## METRIC (U.S. Customary)

Model Code / Description Body type

HATCHBACK	SEDAN
-----------	-------

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

Power equipment	Deck lid (release, pull down)		N.A.
	Door locks (manual, automatic, describe system)		Standard (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.
		Lumbar, hip, thigh, support	N.A.
		Heated (R.H., L.H., other)	N.A.
		Side windows	Standard *3
	Vent windows	N.A.	
Rear windows	N.A.		
Radio systems	Antenna (location, whip, w / shield, power)		Standard (Rear L.H. side, Whip type, Manual) *2 Standard (Rear L.H. side, Whip type, Power) *3
	Standard	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM, FM, Stereo Tape *3
	Optional		AM, FM, Stereo Tape *2
	Speaker (number, location)		Standard (4, Front door & rear side) *3 Optional (4, Front door & rear side) *2
Roof : open air or fixed (flip - up, sliding, "T")			Standard (Sliding) *4
Speed control device			Standard *3
Speed warning device (light, buzzer, etc)			N.A.
Tachometer (rpm)			Standard
Telephone system (describe)			N.A.
Theft deterrent system			Standard (Steering lock)

\*1 : H/B GS, \*GSR SEDAN LS, GS

\*2 : H/B RS SEDAN RS

\*3 : H/B LS, GS, \*GSR SEDAN LS, GS

\*4 : H/B LS, GS, \*GSR SEDAN GS

### 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	450kg (1000)
Max. trailer tongue load (lbs.)	Std / Opt	45kg (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 . INTEGRA

Model Year 1992 Issued October 1991 Revised (-) February 1992

**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	Body type	SAE Ref. No.	HATCHBACK	SEDAN
<b>Width</b>				
Tread (front)	W101	1475 (58.07)		
Tread (rear)	W102	1475 (58.07)		
Vehicle width	W103	1714 (67.48)		
Body width at SgRP (front)	W117	1674 (65.91)	1677 (66.02)	
Vehicle width (front doors open)	W120	3738 (147.17)	3415 (134.45)	
Vehicle width (rear doors open)	W121	N.A.	3334 (131.26)	
Tumble - home (deg.)	W122	23°46'	28°3'	
Outside mirror width	W410	1880 (74.02) *1 , 1900 (74.80) *2		

\*1 : H/B RS

\*2 : H/B LS, GS, \*GSR SEDAN RS, LS, GS

**Length**

Wheelbase	L101	2550 (100.39)	2600 (102.36)
Vehicle length	L103	4392 (172.91)	4484 (176.54)
Overhang (front)	L104	882 (34.72)	
Overhang (rear)	L105	960 (37.80)	1002 (39.45)
Upper structure length	L123	2848 (112.13)	2703 (106.42)
Rear wheel C/L "X" coordinate	L127	2550 (100.39)	2600 (102.36)

## Height\*

Passenger distribution (front / rear)	PD1,2,3	2 / 3	
Trunk / cargo load		45 (100)	
Vehicle height	H101	1270 (50.00)	1285 (50.59)
Cowl point to ground	H114	832 (32.76)	
Deck point to ground	H138	900 (35.43)	910 (35.83)
Rocker panel - front to ground	H112	151 (5.94)	
Rocker panel - rear to ground	H111	125 (4.92)	
Windshield slope angle	H122	61°48'	61°33'
Backlight slope angle	H121	70°46'	62°12'

**Ground Clearance\***

Ground Clearance-			
Front bumper to ground	H102	172 (6.77)	
Rear bumper to ground	H104	249 (9.80)	256 (10.08)
Bumper to ground [front at curb mass (wt.)]	H103	198 (7.80)	
Bumper to ground [rear at curb mass (wt.)]	H105	324 (12.76)	331 (13.03)
Angle of approach (degrees)	H106	17°29'	
Angle of departure (degrees)	H107	15°0'	
Ramp breakover angle (degrees)	H147	9°54'	10°07'
Axle differential to ground (front / rear)	H153	141 (5.55)	
Min. running ground clearance	H156	120 (4.72)	
Location of min. run. grd.clear.		Converter cover	

\* All vehicle height and ground clearances are measured at the Manufacturer's Design Load Weight.

\* 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 INTEGRA  
Model Year 1992 Issued October 1991 Revised (-)

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description Body type

SAE  
Ref.  
No.

HATCHBACK

SEDAN

## Front Compartment

SgRP front, "X" coordinate	L31	1400 (55.12)	1395 (54.92)
Effective head room	H61	978 (38.50)	983 (38.70)
Max. eff. leg room (accelerator)	L34	1062 (41.81)	1057 (41.61)
SgRP to heel point	H30	205 (8.07)	216 (8.50)
SgRP to heel point	L53	834 (32.83)	827 (32.56)
Back angle	L40	25°	
Hip angle	L42	92°02'	92°10'
Knee angle	L44	124°14'	122°48'
Foot angle	L46	104°22'	102°47'
Design H - point front travel	L17	179 (7.05)	
Normal driving & riding seat track trvl.	L23	179 (7.05)	
Shoulder room	W3	1339 (52.72)	1344 (52.91)
Hip room	W5	1288 (50.71)	1285 (50.59)
Upper body opening to ground	H50	1286 (50.63)	1307 (51.46)
Steering wheel maximum diameter *	W9	375 (14.76)	
Steering wheel angle	H18	23°11'	23°45'
Accel. heel pt. to steer. whl. cntr	L11	408 (16.06)	403 (15.87)
Accel. heel pt. to steer. whl. cntr	H17	585 (23.03)	591 (23.27)
Underpressed floor covering thickness	H67	15 (0.59)	

## Rear Compartment

SgRP point couple distance	L50	685 (26.97)	745 (29.33)
Effective head room	H63	882 (34.72)	935 (36.81)
Min. effective leg room	L51	726 (28.58)	805 (31.69)
SgRP (second to heel)	H31	266 (10.47)	286 (11.26)
Knee clearance	L48	-106 (-4.17)	-65 (-2.56)
Shoulder room	W4	1321 (52.01)	1331 (52.40)
Hip room	W6	1195 (47.05)	1299 (51.14)
Upper body opening to ground	H51	1302 (51.26)	1320 (51.97)
Back angle	L41	28°	
Hip angle	L43	78°06'	83°32'
Knee angle	L45	62°11'	74°11'
Foot angle	L47	109°14'	115°48'
Depressed floor covering thickness	H73	13 (0.51)	

## Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	N.A.	317 (11.215)
Liftover height	H195	N.A.	751 (29.57)

## Interior Volumes (EPA Classification)

Vehicle class	Sub compact		
Interior volume index (cu. ft.)**	[ 94.8 (Hatchback) + 95.9 (Sedan) ] ÷ 2 = 95.35		
Trunk / cargo index (cu. ft.)	15.855		11.215

\* See page 14.

\*\* See definition page 33.

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

# MVMA Specifications

Vehicle Line INTEGRA  
Model Year 1992 Issued October 1991 Revised (-)

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Model Code / Description	Body type	SAE Ref. No.	HATCHBACK	SEDAN
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	L88			
Hip angle	L89			
Knee angle	L90			
Foot angle	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 bell	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 [m³ (ft.³)]	V2			
Hidden cargo volume index [m³ (ft.³)]	V4			
Cargo volume index - rear of 2 - seat	V10			
Ø Cargo volume index*	V6			
Ø Cargo width at floor*	W500			
Ø Maximum cargo height*	H505			

## Hatchback - Cargo Space

Cargo length at front seatback height	L208	1465 (57.68)	N.A.	
Cargo length at floor (front)	L209	1639 (64.53)		
Cargo length at second seatback height	L210	523 (20.59)		
Cargo length at floor (second)	L211	981 (38.62)		
Front seatback to load floor height	H197	378 (14.88)		
Second seatback to load floor height	H198	452 (17.80)		
Cargo volume index [m³ (ft.³)]	V3	0.77 (27.37)		
Hidden cargo volume index [m³ (ft.³)]	V4	N.A.		
Cargo volume index - rear of 2 - seat	V11	0.45 (15.855)		

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

\*MPV - Multipurpose Vehicle

# MVMA Specifications

Vehicle Line INTEGRA  
 Model Year 1992 Issued October 1991 Revised (-)       

METRIC (U.S. Customary)

Model Code#  
 Description#  
 Body type

HATCHBACK	SEDAN
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## Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front (1)		<p>Diagram illustrating the coordinate system for the vehicle. The front view shows the C/L (Center Line) and Zero 'Y' plane. The side view shows the Zero 'X' plane and Zero 'Z' plane. The Zero 'Z' plane is at the ground level (G.L.). Dimensions H 161 and H 162 are indicated from the ground level to the top of the front and rear wheels respectively. The coordinate system has -X and +X for horizontal, +Z and -Z for vertical, and C/L for longitudinal.</p>
Front (2)		
Rear (1)		
Rear (2)		
Note: Provide 3 of 4 Fiducial Mark Locations		
Front	W21**	—
	LS4**	—
	H81**	—
	H161**	205 (8.07)
	H163**	—

Rear	W22**	—
	LS5**	—
	H82**	—
	H162**	220 (8.66)
	H164**	—

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

# MVMA Specifications

Vehicle Line INTEGRA  
Model Year 1992 Issued October 1991 Revised (-) February 1992

## METRIC (U.S. Customary)

		Vehicle Mass (weight)						% PASS MASS DISTRIBUTION			
Code	Model	CURB MASS, kg. (lb.)*			SHIPPING MASS kg(lb)***	ETWC** Code		Pass in Front		Pass in Rear	
		Front	Rear	Total		Without Air Con	With Air Con	Front	Rear	Front	Rear
DA934	INTEGRA 3 DOOR RS	708 (1561)	452 (996)	1160 (2557)	1128 (2487)	P	P	45	55	18	82
DA944	INTEGRA 3 DOOR RS	736 (1623)	450 (992)	1186 (2615)	1154 (2544)	P	Q	45	55	18	82
DA935	INTEGRA 3 DOOR LS	726 (1600)	464 (1023)	1190 (2623)	1158 (2553)	P	Q	45	55	18	82
DA945	INTEGRA 3 DOOR LS	754 (1662)	462 (1019)	1216 (2681)	1184 (2610)	Q	Q	45	55	18	82
DA936	INTEGRA 3 DOOR GS	731 (1611)	468 (1032)	1199 (2643)	1167 (2573)	Q	Q	45	55	18	82
DA946	INTEGRA 3 DOOR GS	759 (1674)	466 (1027)	1225 (2701)	1193 (2630)	Q	Q	45	55	18	82
*1	DA937	733 (1616)	468 (1032)	1201 (2648)	1169 (2577)	Q	Q	45	55	18	82
*1	DA947	761 (1678)	466 (1027)	1227 (2705)	1195 (2635)	Q	Q	45	55	18	82
	DB154	722 (1592)	461 (1016)	1183 (2608)	1151 (2538)	P	Q	46	54	20	80
	DB164	750 (1653)	459 (1012)	1209 (2665)	1177 (2595)	Q	Q	46	54	20	80
	DB155	731 (1611)	468 (1032)	1199 (2643)	1167 (2573)	Q	Q	46	54	20	80
	DB165	759 (1672)	466 (1027)	1225 (2701)	1193 (2630)	Q	Q	46	54	20	80
	DB156	748 (1649)	478 (1054)	1226 (2703)	1194 (2632)	Q	Q	46	54	20	80
	DB166	776 (1711)	476 (1049)	1252 (2760)	1220 (2690)	R	R	46	54	20	80
*1	DB157	749 (1651)	479 (1056)	1228 (2707)	1196 (2637)	Q	Q	46	54	20	80
*1	DB167	777 (1713)	477 (1052)	1254 (2765)	1222 (2694)	R	R	46	54	20	80
*	DB238	737 (1625)	472 (1040)	1209 (2665)	1177 (2594)	Q	Q	45	55	18	82

\* 1 : Leather seat cover and leather steering wheel

\* 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           INTEGRA            
Model Year 1992 Issued October 1991 Revised (-)           

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

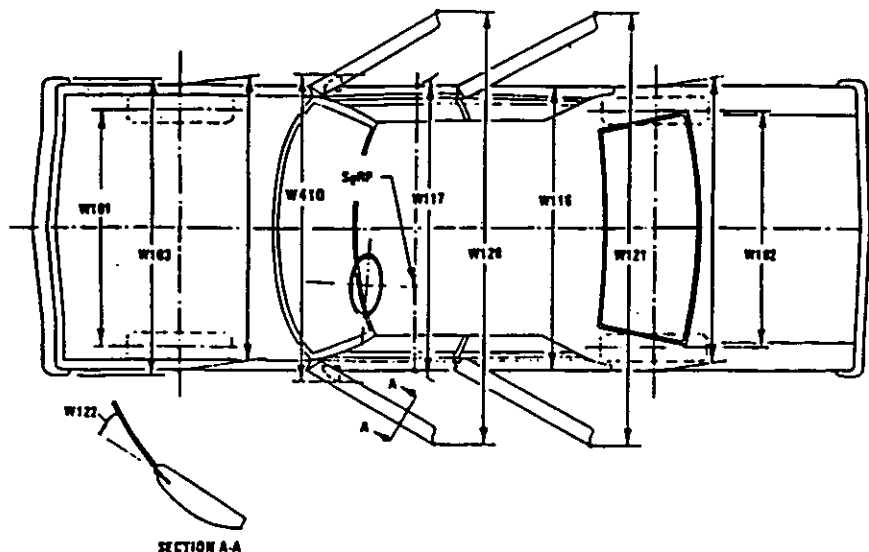
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\* Also see Engine - General Section for dressed engine mass (weight).

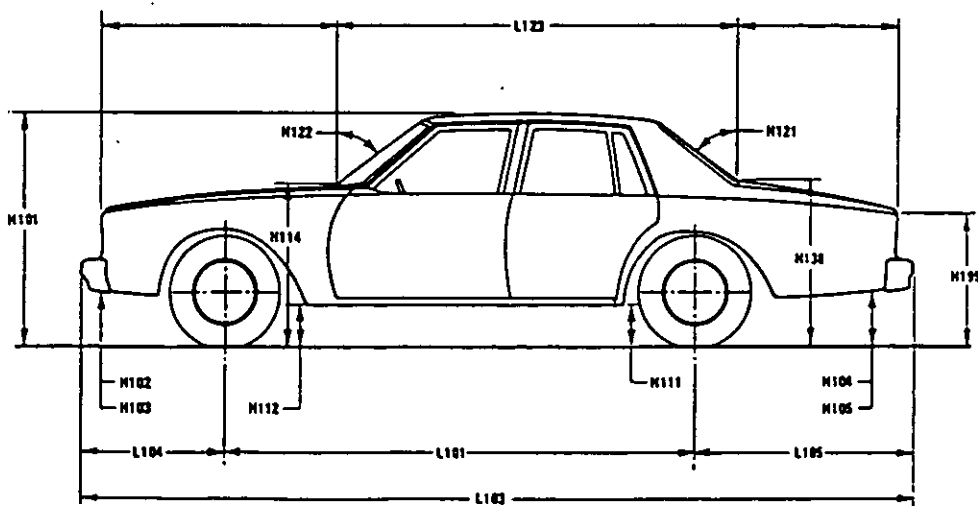
**MVMA Specifications**  
**METRIC (U.S. Customary)**

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

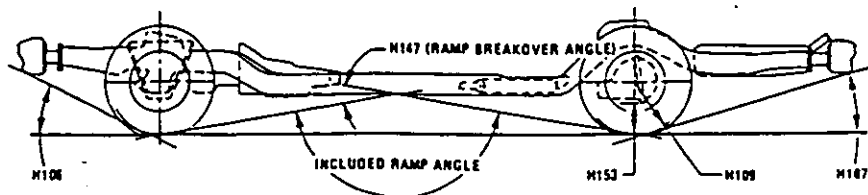
**Exterior Width**



**Exterior Length & Height**



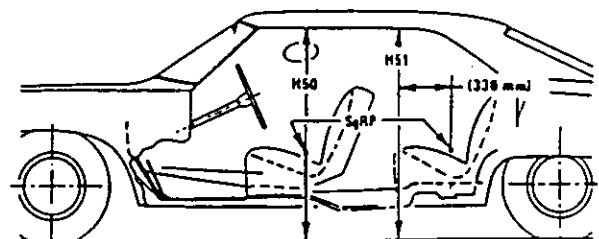
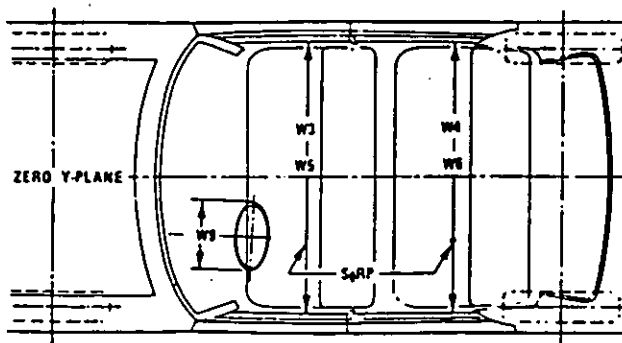
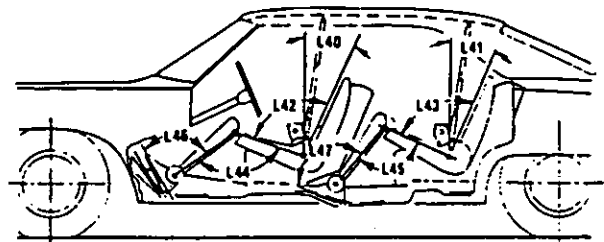
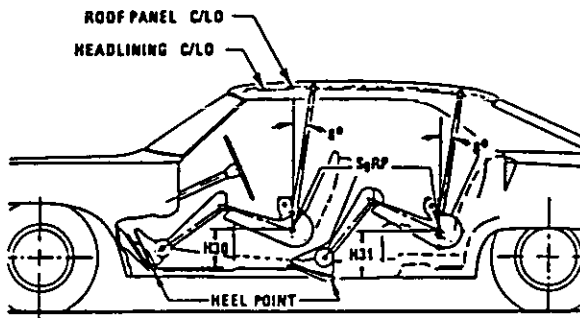
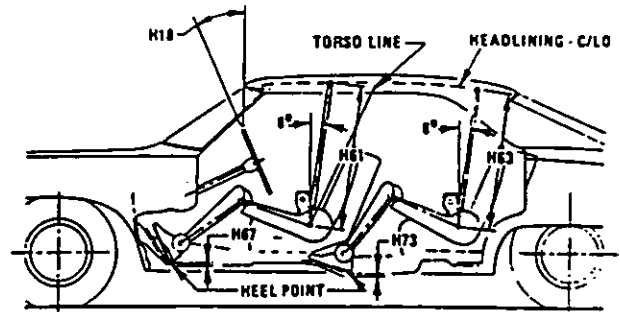
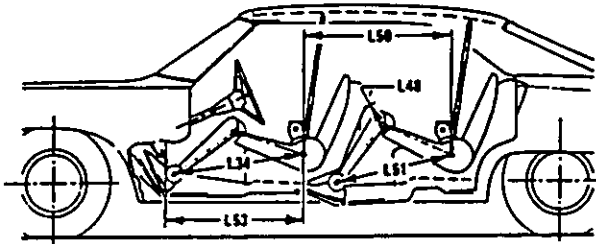
**Exterior Ground Clearance**



# MVMA Specifications Form

## METRIC (U.S. Customary)

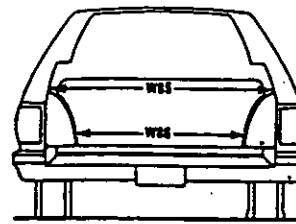
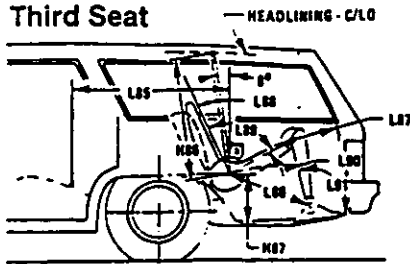
### Interior Vehicle And Body Dimensions – Key Sheet



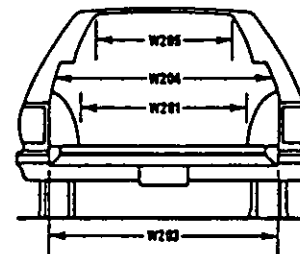
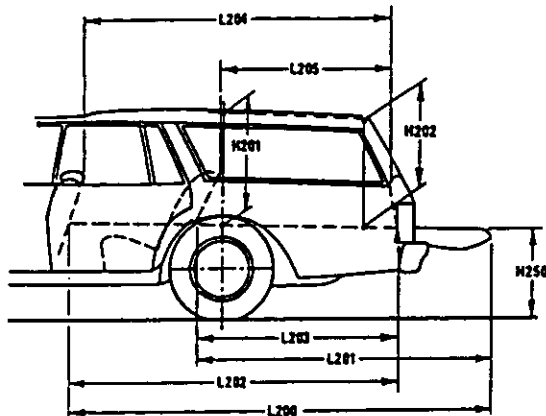


**Interior Vehicle And Body Dimensions – Key Sheet**

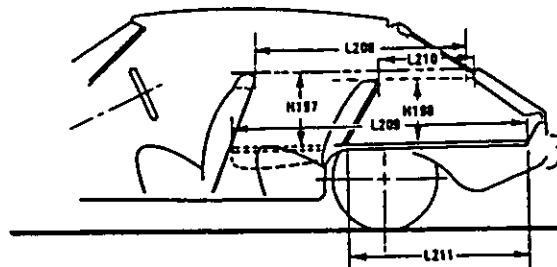
**Third Seat**



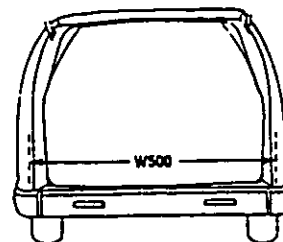
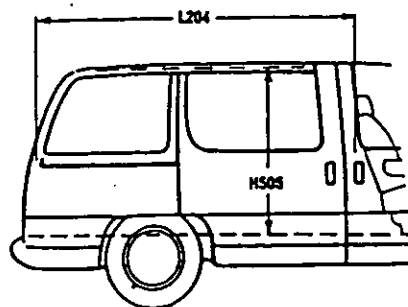
**Cargo Space**



**Station Wagon**



**Hatchback**



Ø 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 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 HEADROOM – 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 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 undeepressed floor covering to the rearmost point on the undeepressed 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 undeepressed floor covering to the rearmost point on the undeepressed 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 undeepressed floor covering to the rearmost point on the undeepressed 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 undeepressed floor covering to the rearmost point on the undeepressed 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 wheelhouseings 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 undeepressed floor covering.

- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undeepressed 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 undeepressed 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 undeepressed 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 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:

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

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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