

**Close**

2006 INSIGHT - Design Specifications

Item	Measurement	Qualification	Specification	
DIMENSIONS	Overall length		3,940 mm (155.1 in.)	
	Overall width		1,695 mm (66.7 in.)	
	Overall height		1,355 mm (53.3 in.)	
	Wheelbase		2,400 mm (94.5 in.)	
	Track	Front		1,435 mm (56.5 in.)
		Rear		1,325 mm (52.2 in.)
	Ground clearance		150 mm (5.91 in.)	
	Seating capacity		Two (2)	
WEIGHT (U.S.A.)	Gross Vehicle Weight Rating (GVWR)	M/T	2,325 lbs	
		CVT	2,380 lbs	
WEIGHT (CANADA)	Gross Vehicle Weight Rating (GVWR)		1,055 kg	
ENGINE	Type		Water-cooled, 4-stroke SOHC VTEC gasoline engine	
	Cylinder arrangement		Inline 3-cylinder, transverse	
	Bore and stroke		72.0 x 81.5 mm (2.83 x 3.21 in.)	
	Displacement		995 cm ³ (mL) (61 cu in.)	
	Compression ratio	M/T		10.8
		CVT		10.3
	Valve train		Chain driven, SOHC VTEC 4-valves per cylinder	
	Lubrication system		Forced, wet sump, with trochoid pump	
	Oil pump displacement	At 6,000 rpm		30.8 L (32.5 US qt)/minute
	Water pump displacement	At 6,000 rpm		114 L (120 US qt)/minute
	Fuel required			Regular UNLEADED gasoline with 87 Pump Octane Number or higher
IMA MOTOR	Type		DC brushless	
IMA BATTERY	Type		7.2 V Ni-MH	
	Number		20	
	Output		144 V	
IMA MOTOR	Type		Intelligent Power Module (IPM)	

CONTROLLER				
STARTER	Type		Gear reduction	
	Normal output		1.0 kW	
	Nominal voltage		12 V	
	Hour rating		30 seconds	
	Direction of rotation		Counterclockwise as viewed from gear end	
CLUTCH	Type		Single plate dry, diaphragm spring	
	Clutch friction material surface area		147 cm ² (22.8 sq in.)	
MANUAL TRANSMISSION	Type	SHR	Synchronized, 5-speed forward, 1 reverse	
	Primary reduction		Direct 1:1	
	Gear ratio	1st		3.461
		2nd		1.750
		3rd		1.096
		4th		0.857
		5th		0.710
		Reverse		3.230
	Final reduction	Type		Single helical gear
Gear ratio			3.208	

Item	Measurement	Qualification	Specification	
CVT	Type	MHTA	Electronically controlled continuously variable transmission	
	Primary reduction		Direct 1:1	
	Gear ratio	Low-High		2.441-0.407
		Reverse		4.359-3.214
	Final reduction	Type		Single helical gear
		Gear ratio		5.69
STEERING	Type		Electric, power assisted, rack and pinion	
	Overall ratio		16.4	
	Turns, lock-to-lock		3.32	
	Steering wheel diameter		360 mm (14.2 in.)	
SUSPENSION	Type	Front	Independent strut with stabilizer, coil spring	
		Rear	Independent strut, trapezoid link, coil spring	
	Shock absorber	Front and rear	Telescopic, hydraulic nitrogen gas-filled	

TIRES	Size	Front and rear tires	P165/65R14 78S (M+S)
		Spare tire	T115/70D14 88M
WHEEL ALIGNMENT	Camber	Front	0 ° 00 '
		Rear	-1 ° 00 '
	Caster	Front	2 ° 00 '
	Total toe-in	Front	0 mm (0 in.)
Rear		3 mm (0.12 in.)	
BRAKES	Type of service brake	Front	Power-assisted self-adjusting ventilated disc
		Rear	Power-assisted self-adjusting drum
	Type of parking brake		Mechanical actuating, rear wheels
	Pad friction surface area	M/T	36.0 cm ² x 4 (5.6 sq in.) x 4
		CVT	34.9 cm ² x 4 (5.4 sq in.) x 4
Shoe friction surface area		40.4 cm ² x 4 (6.3 sq in.) x 4	
AIR CONDITIONING	Cooling capacity		3,200 kcal/h (12,700 BTU/h)
	Compressor	Type/manufacturer	Scroll/SANDEN
		Number of cylinders	---
		Capacity	85.7 mL/rev. (5.23 cu in./rev.)
		Maximum speed	10,000 rpm
		Lubricant capacity	130 mL (4 1/3 fl oz)
		Lubricant type	SANDEN SP-10
	Condenser	Type	Corrugated fin
	Evaporator	Type	Corrugated fin
	Blower	Type	Sirocco fan
		Motor input	220 W/12 V max.
		Speed control	Infinite variable
		Max. capacity	435 m ³ /h (15,300 cu ft/h)
	Temperature control		Air-mix type
	Compressor clutch	Type	Dry, single plate, poly-V-belt drive
		Electrical power consumption at 68 °F (20 °C)	41 W maximum at 12 V
	Refrigerant	Type	HFC-134a (R-134a)
Quantity		500-550 g (17.6-19.4 oz)	

(cont'd)

Item	Measurement	Qualification	Specification
ELECTRICAL RATINGS	Battery	M/T	12 V-27 AH/5 hours
		CVT	12 V-30 AH/5 hours
	Fuses	Under-hood fuse/relay box	7.5 A, 10 A, 15 A, 20 A, 30 A, 40 A, 50 A, 80 A
		Under-dash fuse/relay box	7.5 A, 10 A, 15 A, 20 A
	Light bulbs	Headlight high beam	12 V-60 W
		Headlight low beam	12 V-55 W
		Front turn signal lights	12 V-21 W
		Front parking lights	12 V-5 W
		Front side marker lights	12 V-5 W
		Rear turn signal lights	12 V-21 W
		Brake/taillights	12 V-21/5 W
		High mount brake light	LED
		Back-up lights	12 V-18 W
		License plate light	12 V-5 W
		Ceiling light	12 V-5 W
		Cargo area light	12 V-3.4 W
		Spotlights	12 V-5 W
		Gauge lights	12 V-3 W
Indicator lights		12 V-1.12 W, 12 V-1.4 W	
Panel and pilot lights		12 V-0.56 W, 12 V-0.84 W, LED	