2007-08 GENERAL INFORMATION Specifications - Element

#### 2007-08 GENERAL INFORMATION

**Specifications - Element** 

# STANDARDS AND SERVICE LIMITS

### **ENGINE ELECTRICAL**

#### **ENGINE ELECTRICAL SPECIFICATION**

Item	Measurement	Qualification	Standard or New	Service Limit
Institut and	Rated voltage		12V	
Ignition con	Firing order		1-3-4-2	
	Туре		NGK:IZFR6K11	
Spark plug	Gap		1.0-1.1 mm (0.039- 0.043 in.)	
Ignition	At idle Check the red	M/T (in neutral)	$8 \pm 2^{\circ}$ BTDC	
timing	mark	A/T (in N or P position)	$8 \pm 2^{\circ}$ BTDC	
Drive belt	Tension		Auto-tensioner	
	Output	At 13.5 V and normal engine temperature	105A	
	Coil (rotor) resistance	At 68°F (20°C)	2.5 ohms	
Alternator	Slip ring O.D.		14.4 mm (0.57 in.)	14.0 mm (0.55 in.)
	Brush length		10.5 mm (0.41 in.)	1.5 mm (0.06 in.)
	Brush spring tension		3.2 N (0.33 kgf, 0.7 lbf)	
	Output		1.6 kW	
	Commutator mica depth		0.40-0.50 mm (0.016- 0.020 in.)	0.15 mm (0.006 in.)
Starter	Commutator runout		0.02 mm (0.001 in.) max.	0.05 mm (0.002 in.)
	Commutator O.D.		28.0-28.1 mm (1.102- 1.106 in.)	27.5 mm (1.083 in.)
	Brush length		11.1-11.5 mm (0.44- 0.45 in.)	4.3 mm (0.17 in.)

#### **ENGINE ASSEMBLY**

#### **ENGINE ASSEMBLY SPECIFICATION**

	Item	Measurement	Qualification	Standard or New
	Compression	Pressure Check with the starter cranking the engine	Minimum	930 kPa (9.5 kgf/cm <sup>2</sup> , 135 psi)
			Maximum	$200 \text{ kPa} (2.0 \text{ kgf/cm}^2, 28)$

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variation

psi)

### **CYLINDER HEAD**

#### CYLINDER HEAD SPECIFICATION

Item	Measurement	Qualification	Standard or New	Service Limit
Haad	Warpage			0.05 mm (0.002 in.)
пеац	Height		103.95-104.05 mm (4.093- 4.096 in.)	
Camshaft	End play		0.05-0.20 mm (0.002-0.008 in.)	0.4 mm (0.02 in.)
	Camshaft-to-holder oil	No. 1 journal	0.030-0.069 mm (0.001- 0.003 in.)	0.15 mm (0.006 in.)
	clearance	No. 2, 3, 4, 5 journals	0.060-0.099 mm (0.002- 0.004 in.)	0.15 mm (0.006 in.)
	Total runout		0.03 mm (0.001 in.) max.	0.04 mm (0.002 in.)
		Intake, primary	34.263 mm (1.3489 in.)	
	Cam lobe height	Intake, secondary	29.638 mm (1.1668 in.)	
		Exhaust	34.092 mm (1.3422 in.)	
	Clearance (cold)	Intake	0.21-0.25 mm (0.008-0.010 in.)	
		Exhaust	0.28-0.32 mm (0.011 -0.013 in.)	
Value	Stem O.D.	Intake	5.475-5.485 mm (0.2156- 0.2159 in.)	5.445 mm (0.214 in.)
valve		Exhaust	5.450-5.460 mm (0.2146- 0.2150 in.)	5.42 mm (0.213 in.)
	<u>6</u> 4	Intake	0.030-0.055 mm (0.0012- 0.0022 in.)	0.08 mm (0.003 in.)
	Stem-to-guide clearance	Exhaust	0.055-0.080 mm (0.0022- 0.0031 in.)	0.11 mm (0.004 in.)
	Width	Intake	1.25-1.55 mm (0.049-0.061 in.)	2.00 mm (0.079 in.)
Value sect		Exhaust	1.25-1.55 mm (0.049-0.061 in.)	2.00 mm (0.079 in.)
valve seat	Store installed height	Intake	44.0-44.5 mm (1.73-1.75 in.)	
	Stem instaned height	Exhaust	44.1-44.6 mm (1.74-1.76 in.)	
Valve	Free longth	Intake	47.57 mm (1.873 in.)	
spring		Exhaust	49.64 mm (1.954 in.)	

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	I.D.	Intake	5.515-5.530 mm (0.2171- 0.2177 in.)	5.55 mm (0.219 in.)
Valve guide		Exhaust	5.515-5.530 mm (0.2171- 0.2177 in.)	5.55 mm (0.219 in.)
	Installed height	Intake	15.2-16.2 mm (0.598-0.638 in.)	
		Exhaust	15.5-16.5 mm (0.610-0.650 in.)	
Rocker arm	Arm-to-shaft clearance	Intake	0.025-0.052 mm (0.0010- 0.0020 in.)	0.08 mm (0.003 in.)
		Exhaust	0.018-0.056 mm (0.0007- 0.0022 in.)	0.08 mm (0.003 in.)

### **ENGINE BLOCK**

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#### **ENGINE BLOCK SPECIFICATION**

Item	Measurement	Qualification	Standard or New	Service Limit
	Warpage of deck		0.07 mm (0.003 in.) max.	0.10 mm (0.004 in.)
	Done diameter	A or I	87.010-87.020 mm (3.4256-3.4260 in.)	87.070 mm (3.4279 in.)
Block	Bore diameter	B or II	87.000-87.010 mm (3.4252-3.4256 in.)	87.070 mm (3.4279 in.)
	Bore taper			0.05 mm (0.002 in.)
	Reboring limit			0.25 mm (0.01 in.)
	Skirt O.D. at 13 mm (0.5 in.)	No letter or A	86.980-86.990 mm (3.4244-3.4248 in.)	86.930 mm (3.4224 in.)
	from bottom of skirt	Letter B	86.970-86.980 mm (3.4240-3.4244 in.)	86.920 mm (3.4220 in.)
Distant	Clearance in cylinder		0.020-0.040 mm (0.0008- 0.0016 in.)	0.05 mm (0.002 in.)
Piston		Тор	1.230-1.240 mm (0.0484- 0.0488 in.)	1.26 mm (0.0450 in.)
	Ring groove width	Second	1.240-1.250 mm (0.0488- 0.0492 in.)	1.270 mm (0.050 in.)
		Oil	2.005-2.025 mm (0.0789- 0.0797 in.)	2.05 mm (0.081 in.)
		Тор	0.050-0.075 mm (0.0020- 0.0030 in.)	0.13 mm (0.005 in.)
	King-to-groove clearance	Second	0.050-0.075 mm (0.0020- 0.0030 in.)	0.13 mm (0.005 in.)
			0.20-0.35 mm (0.008-0.014	0.60 mm

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		Тор	in.)	(0.024 in.)
Piston ring	Ring end gap	Second	0.40-0.55 mm (0.016-0.022 in.)	0.70 mm (0.028 in.)
		Oil	0.20-0.50 mm (0.008-0.020 in.)	0.80 mm (0.031 in.)
	O.D.		21.962-21.965 mm (0.8646-0.8648 in.)	21.953 mm (0.8643 in.)
Piston pin	Pin-to-piston clearance		-0.005 to +0.001 mm (- 0.00020 to +0.00004 in.)	0.005 mm (0.0002 in.)
	Pin-to-rod clearance		0.005-0.014 mm (0.0002- 0.0006 in.)	0.02 mm (0.0008 in.)
Connecting	Small-end bore diameter		21.970-21.976 mm (0.8650-0.8652 in.)	
rod	Large-end bore diameter		51.0 mm (2.01 in.)	
	End play installed on crankshaft		0.15-0.35 mm (0.006-0.014 in.)	0.40 mm (0.016 in.)
	Main journal diameter	No. 1 journal No. 2 journal No. 4 journal No. 5 journal	54.984-55.008 mm (2.1648-2.1657 in.)	
		No. 3 journal	54.976-55.000 mm (2.1644-2.1654 in.)	
Cue a lash e fé	Rod journal diameter		47.976-48.000 mm (1.8888-1.8898 in.)	
Cranksnaft	Rod/main journal taper		0.005 mm (0.0002 in.) max.	0.010 mm (0.0004 in.)
	Rod/main journal out-of-round		0.005 mm (0.0002 in.) max.	0.010 mm (0.0004 in.)
	End play		0.10-0.35 mm (0.004-0.014 in.)	0.45 mm (0.018 in.)
	Runout		0.03 mm (0.0012 in.) max.	0.04 mm (0.0016 in.)
Crankshaft	Main bearing-to-journal oil clearance	No. 1 journal No. 2 journal No. 4 journal No. 5 journal	0.017-0.041 mm (0.0007- 0.0016 in.)	0.050 mm (0.0020 in.)
bearing		No. 3 journal	0.025-0.049 mm (0.0010- 0.0019 in.)	0.055 mm (0.0022 in.)
	Rod bearing clearance		0.020-0.050 mm (0.0008- 0.0020 in.)	0.060 mm (0.0024 in.)

### **ENGINE LUBRICATION**

### **ENGINE LUBRICATION SPECIFICATION**

#### 2007-08 GENERAL INFORMATION Specifications - Element

Item	Measurement	Qualification	Standard or New	Service Limit
		Engine overhaul	5.3 L (5.6 US qt)	
Engine	Capacity	Oil change including filter	4.2 L (4.4 US qt)	
on		Oil change without filter	4.0 L (4.2 US qt)	
	Inner-to-outer rotor clearance		0.06-0.16 mm (0.002- 0.006 in.)	0.20 mm (0.008 in.)
	Pump housing-to-outer rotor clearance		0.15-0.21 mm (0.006- 0.008 in.)	0.23 mm (0.009 in.)
	Pump housing-to-rotor axial clearance		0.035-0.070 mm (0.0014-0.0028 in.)	0.12 mm (0.005 in.)
		No. 1 journal, front shaft	19.938-19.950 mm (0.7850-0.7854 in.)	19.92 mm (0.784 in.)
Oil	Balancer shafts, journal diameter	No. 1 journal, rear shaft	23.938-23.950 mm (0.9424-0.9429 in.)	23.92 mm (0.942 in.)
		No. 2 journal, front and rear shafts	32.949-32.961 mm (1.2972-1.2977 in.)	32.93 mm (1.296 in.)
	Balancer shafts, journal taper		0.005 mm (0.0002 in.) max.	
	Balancer shafts, end play	Front	0.063-0.108 mm (0.0025-0.0043 in.)	0.14 mm (0.0055 in.)
pump		Rear	0.063-0.108 mm (0.0025-0.0043 in.)	0.14 mm (0.0055 in.)
		No. 1 journal, front shaft	0.050-0.082 mm (0.0020-0.0032 in.)	0.10 mm (0.004 in.)
	Balancer shafts, shaft-to-bearing clearance	No. 1 journal, rear shaft	0.050-0.082 mm (0.0020-0.0032 in.)	0.10 mm (0.004 in.)
		No. 2 journal, front and rear shafts	0.060-0.120 mm (0.0024-0.0047 in.)	0.15 mm (0.006 in.)
		No. 1 journal, front shaft	20.000-20.020 mm (0.7874-0.7882 in.)	20.03 mm (0.789 in.)
	Balancer shaft bearings, I.D.	No. 1 journal, rear shaft	24.000-24.020 mm (0.9449-0.9457 in.)	24.03 mm (0.946 in.)
		No. 2 journal, front and rear shafts	33.021-33.069 mm (1.3000-1.3019 in.)	33.09 mm (1.303 in.)
	Relief valve, oil pressure with oil	At idle	$70 \text{ kPa} (0.7 \text{ kgf/cm}^2, 1)$	10 psi) min.
	temperature at 176°F (80°C)	At 3,000 rpm	$300 \text{ kPa} (3.1 \text{ kgf/cm}^2)$	44 psi) min.

### **COOLING SYSTEM**

#### **COOLING SYSTEM SPECIFICATION**

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Item	Measurement	Qualification	Standard or New
Radiator		M/T: engine overhaul	7.3 L (1.93 US gal)
	Coolant capacities (including engine, heater, hoses, and reservoir)	M/T: coolant change	5.2 L (1.37 US gal)
	Use Honda Long Life Antifreeze/Coolant Type 2	A/T: engine overhaul	7.2 L (1.90 US gal)
		A/T: coolant change	5.1 L (1.35 US gal)
Coolant reservoir	Coolant capacity		0.6 L (0.16 US gal)
Radiator can	Opening pressure		93-123 kPa (0.95-1.25
Radiator cap	opening pressure		kgf/cm <sup>2</sup> , 14-18 psi)
Thermostat	Opening temperature	Begins to open	169-176°F (76-80°C)
	Opening temperature	Fully open	194°F (90°C)
	Valve lift at fully open		8.0 mm (0.31 in.) min.

#### FUEL AND EMISSIONS

#### FUEL AND EMISSIONS SPECIFICATION

Item	Measurement	Qualification	Standard or New	
Fuel			320-370 kPa (3.3-	
pressure	Pressure with fuel pressure gauge connected		$3.8 \text{ kgf/cm}^2$ , 47-	
regulator			54 psi)	
Fuel tank	Capacity		60 L (15.9 US gal)	
		M/T (in neutral)	$700 \pm 50$ rpm	
	Idle speed without load	A/T (in N or P	$700 \pm 50 \text{ rpm}$	
Engine idle		position)		
	Idle speed with high electrical load (A/C switch ON,	M/T (in neutral)	$720 \pm 50 \text{ rpm}$	
	temperature set to max cool, blower fan on High, rear window defogger ON, and headlights on high beam)	A/T (in N or P position)	$720 \pm 50 \text{ rpm}$	

### CLUTCH

### **CLUTCH SPECIFICATION**

Item	Measurement	Qualification	Standard or New	Service Limit
	Height from floor		200 mm (7.87 in.)	
Clutch pedal	Stroke		125-135 mm (4.92- 5.31 in.)	
	Play		6-17 mm (0.24- 0.67 in.)	
			112 mm (4.41 in.)	

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	Disengagement height from floor	min.	
Flywheel	Runout on clutch mating surface	0.05 mm (0.002 in.) max.	0.15 mm (0.006 in.)
Clutch disc	Rivet head depth	1.65-2.25 mm (0.065-0.089 in.)	0.7 mm (0.03 in.)
	Thickness	8.6-9.2 mm (0.34- 0.36 in.)	6.0 mm (0.24 in.)
Pressure	Warpage	0.03 mm (0.001 in.) max.	0.15 mm (0.006 in.)
plate	Height of diaphragm spring fingers measured with special tool and feeler gauge	0.6 mm (0.02 in.) max.	0.8 mm (0.03 in.)

#### MANUAL TRANSMISSION AND M/T DIFFERENTIAL

#### MANUAL TRANSMISSION AND M/T DIFFERENTIAL SPECIFICATION

Item	Measurement	Qualification	Standard or New	Service Limit
Monuol		Fluid change	1.90 L (2.0 US qt)	
transmission fluid	Capacity Use Honda MTF	2WD: overhaul	2.15 L (2.3 US qt)	
		4WD: overhaul	2.25 L (2.4 US qt)	
	End play		0.11-0.17 mm (0.004-0.007 in.)	Adjust
	Diameter of bushing contact area		20.80-20.85 mm (0.8189-0.8209 in.)	20.75 mm (0.817 in.)
	Diameter of distance collar contact area		31.984-32.000 mm (1.2594-1.2598 in.)	31.93 mm (1.257 in.)
Mainshaft	Diameter of ball bearing contact area (clutch housing side)		27.977-27.990 mm (1.1015-1.1020 in.)	27.94 mm (1.100 in.)
	Diameter of needle bearing contact area		38.984-39.000 mm (1.5348-1.5354 in.)	38.93 mm (1.533 in.)
	Diameter of ball bearing contact area (transmission housing side)		27.987-28.000 mm (1.1019-1.1024 in.)	27.94 mm (1.100 in.)
	Runout		0.02 mm (0.001 in.) max.	0.05 mm (0.002 in.)
Mainshaft 3rd, 4th,	I.D.		44.009-44.025 mm (1.7326-1.7333 in.)	44.08 mm (1.735 in.)
and 5th gear	End play		0.06-0.16 mm (0.002-0.006 in.)	0.25 mm (0.010 in.)

	Thickness		23.92-23.97 mm (0.941-0.944 in.)	23.80 mm (0.937 in.)
	I.D.		32.00-32.01 mm (1.2598-1.2602 in.)	32.02 mm (1.261 in.)
Mainshaft 4th and 5th gear distance	O.D.		38.989-39.000 mm (1.5350-1.5354 in.)	38.94 mm (1.533 in.)
collar		A	51.95-52.05 mm (2.045-2.049 in.)	
	Length	В	24.03-24.08 mm (0.946-0.948 in.)	
MBS distance	I.D.		28.00-28.01 mm (1.102-1.103 in.)	28.02 mm (1.103 in.)
collar	Length		23.95-24.05 mm (0.943-0.947 in.)	
	Diameter of needle bearing contact area (clutch housing side)		35.000-35.015 mm (1.3780-1.3785 in.)	34.95 mm (1.376 in.)
	Diameter of distance collar contact area		39.937-39.950 mm (1.5723-1.5728 in.)	39.88 mm (1.570 in.)
Countershaft	Diameter of ball bearing contact area (transmission housing side)		30.020-30.033 mm (1.1819-1.1824 in.)	29.97 mm (1.180 in.)
	Runout		0.02 mm (0.001 in.) max.	0.05 mm (0.002 in.)
	35 mm shim-to-bearing inner race clearance		0.04-0.10 mm (0.0016-0.0039 in.)	Adjust
Cterchoft 1 of	I.D.		52.010-52.029 mm (2.0476-2.0484 in.)	52.08 mm (2.050 in.)
gear	End play		0.06-0.16 mm (0.002-0.006 in.)	0.25 mm (0.010 in.)
	Thickness		22.92-22.97 mm (0.902-0.904 in.)	22.87 mm (0.900 in.)
Countersheft and	I.D.		52.010-52.029 mm (2.0476-2.0484 in.)	52.08 mm (2.050 in.)
gear	End play		0.06-0.16 mm (0.002-0.006 in.)	0.25 mm (0.010 in.)
	Thickness		27.92-27.97 mm (1.099-1.101 in.)	27.87 mm (1.097 in.)

	I.D.		39.95-39.96 mm (1.5728-1.5732 in.)	39.97 mm (1.574 in.)
Countershaft 1st gear distance collar	O.D.		46.989-47.000 mm (1.8499-1.8504 in.)	46.94 mm (1.848 in.)
	Length		23.03-23.08 mm (0.907-0.909 in.)	
	I.D.		39.95-39.96 mm (1.5728-1.5732 in.)	39.97 mm (1.574 in.)
gear distance collar	O.D.		46.989-47.000 mm (1.8499-1.8504 in.)	46.94 mm (1.848 in.)
	Length		28.03-28.08 mm (1.104-1.106 in.)	
Reverse idler gear	I.D.		20.016-20.043 mm (0.7880-0.7891 in.)	20.90 mm (0.832 in.)
	Gear-to-reverse gear shaft clearance		0.036-0.084 mm (0.0014-0.0033 in.)	0.16 mm (0.006 in.)
Synchro ring	Ring-to-gear clearance	Ring pushed against gear	0.70-1.49 mm (0.028-0.059 in.)	0.4 mm (0.016 in.)
	Outer synchro ring-to-synchro cone clearance	Ring pushed against gear	0.70-1.19 mm (0.028-0.047 in.)	0.3 mm (0.012 in.)
Double cone synchro	Synchro cone-to-gear clearance	Ring pushed against gear	0.50-1.04 mm (0.020-0.041 in.)	0.3 mm (0.012 in.)
	Outer synchro ring-to-gear cone clearance	Ring pushed against gear	0.95-1.68 mm (0.037-0.066 in.)	0.6 mm (0.024 in.)
	Outer synchro ring-to-synchro clearance	Ring pushed against gear	0.70-1.19 mm (0.028-0.047 in.)	0.3 mm (0.012 in.)
Triple cone synchro	Synchro cone-to-gear clearance	Ring pushed against gear	0.50-1.04 mm (0.020-0.041 in.)	0.3 mm (0.012 in.)
	Outer synchro ring-to-gear clearance	Ring pushed against gear	0.95-1.68 mm (0.037-0.066 in.)	0.6 mm (0.024 in.)
Shift fork	Fork thickness		7.4-7.6 mm (0.29- 0.30 in.)	
	Fork-to-synchro sleeve clearance		0.35-0.65 mm (0.014-0.026 in.)	1.0 mm (0.039 in.)
Deverse -1-10 C 1	Finger width		13.4-13.7 mm (0.527-0.539 in.)	
Reverse shift fork	Fork-to-reverse idler gear clearance		0.20-0.59 mm (0.007-0.024 in.)	1.2 mm (0.047 in.)
		1	1	í

	I.D.	13.973-14.000 mm (0.5501-0.5512 in.)	
Shift arm	Shift arm thickness at contact area	16.9-17.0 mm (0.665-0.669 in.)	
	Shift arm-to-shift fork clearance	0.2-0.5 mm (0.008-0.020 in.)	0.6 mm (0.023 in.)
Select lever	Finger width	14.85-14.95 mm (0.585-0.589 in.)	
	Change-to-select lever clearance	0.05-0.25 mm (0.002-0.010 in.)	0.5 mm (0.020 in.)
Change lever	Groove width (to select lever)	15.00-15.10 mm (0.591-0.594 in.)	
	Shaft-to-shift arm clearance	0.013-0.07 mm (0.0005-0.003 in.)	0.1 mm (0.004 in.)
M/T differential carrier	Pinion shaft contact area I.D.	18.010-18.028 mm (0.7091-0.7098 in.)	
	Carrier-to-pinion shaft clearance	0.027-0.057 mm (0.0011-0.0022 in.)	0.1 mm (0.004 in.)
	Driveshaft contact area I.D.	28.025-28.045 mm (1.1033-1.1041 in.)	
	Backlash	0.05-0.15 mm (0.002-0.006 in.)	
M/T differential pinion gear	I.D.	18.042-18.066 mm (0.7103-0.7113 in.)	
·	Pinion gear-to-pinion shaft clearance	0.059-0.095 mm (0.0023-0.0037 in.)	0.15 mm (0.006 in.)
80 mm shim	80 mm shim-to-bearing outer race clearance in transmission housing	0-0.10 mm (0- 0.0039 in.)	Adjust
	Diameter of tapered roller bearing contact area (transfer shaft)	24.975-24.990 mm (0.9833-0.9838 in.)	24.92 mm (0.9811 in.)
Transfer assembly	Diameter of tapered roller bearing contact area (transfer drive gear)	40.002-40.018 mm (1.5749-1.5755 in.)	38.95 mm (1.5335 in.)
	Diameter of tapered roller bearing contact area (driven gear side)	35.002-35.018 mm (1.3780-1.3786 in.)	34.95 mm (1.3760 in.)
	Diameter of tapered roller bearing	26.975-26.988 mm (1.0620-1.0625	26.92 mm (1.0598

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contact area (splined side)	in.)	in.)
Transfer gear backlash	0.06-0.16 mm (0.0024-0.0063 in.)	Adjust
Total starting torque	2.16-3.57 N.m (22.0-36.4 kgf.cm, 19.1-31.6 lbf.in.)	Adjust

### AUTOMATIC TRANSMISSION AND A/T DIFFERENTIAL

### AUTOMATIC TRANSMISSION AND A/T DIFFERENTIAL SPECIFICATION

Item	Measurement		Qualification	Standard or New	Service Limit
	1		Fluid change	2.5 L (2.6 US qt)	
Automatic	Capacity Use Honda	4WD	Overhaul	7.2 L (7.6 US qt)	
fluid	ATF-Z1		Fluid change	2.6 L (2.7 US qt)	
			Overhaul	7.0 L (7.4 US qt)	
			$\Lambda + 2.000$ mm in N or	900-960 kPa (9.2-	850 kPa (8.7
	Line pressure		P position	9.8 kgf/cm <sup>2</sup> , 130-	kgf/cm <sup>2</sup> , 120
				140 psi)	psi)
			A + 2 000  rpm in  1	890-970 kPa (9.1-	840 kPa (8.6
	1st clutch pressure		nosition	9.9 kgf/cm <sup>2</sup> , 130-	kgf/cm <sup>2</sup> , 120
				140 psi)	psi)
	2nd clutch pressure		A + 2 000 rpm in 2	890-970 kPa (9.1-	840 kPa (8.6
			nosition	9.9 kgf/cm <sup>2</sup> , 130-	kgf/cm <sup>2</sup> , 120
ATE pressure				140 psi)	psi)
ATT pressure		3rd clutch pressure		890-970 kPa (9.1-	840 kPa (8.6
	3rd clutch pressure			9.9 kgf/cm <sup>2</sup> , 130-	$kgf/cm^2$ , 120
			gour in Do position	140 psi)	psi)
				890-970 kPa (9.1-	840 kPa (8.6
	4th clutch pressure		gear in D position	9.9 kgf/cm <sup>2</sup> , 130-	$kgf/cm^2$ , 120
				140 psi)	psi)
			A t 2 000 rpm in 5th	890-970 kPa (9.1-	840 kPa (8.6
	5th clutch pressure		dear in D position	9.9 kgf/cm <sup>2</sup> , 130-	$kgf/cm^2$ , 120
				140 psi)	psi)
Torque converter	Stall speed Check with	n		2 400 rpm	2,250-2,550
	vehicle on level groun	.d	ļ	2,400 1911	rpm
					1.38-1.58 mm
			1st		(0.054-0.062
	Clutch and plate-to-to	n disc			in.)
	clearance	p uise	0		1.14-1.34 mm
	ciourunee		Znd		(0.045 - 0.055)
					III. <i>)</i>
					1.23-1.43 mm

### 2007-08 GENERAL INFORMATION Specifications - Element

	3rd		(0.048-0.056
	4th, 5th		0.93-1.13 mm (0.037-0.044 in.)
Clutch return spring free	1st, 2nd, 3rd	45.1 mm (1.78 in.)	48.8 mm (1.92 in.)
Clutch return spring free ength Clutch disc thickness Clutch plate thickness Clutch wave-plate phase ifference	4th, 5th	33.5 mm (1.32 in.)	31.5 mm (1.24 in.)
Clutch disc thickness		1.94 mm (0.076 in.)	
	1st, 3rd	1.6 mm (0.063 in.)	When discolored
Clutch plate thickness	2nd	2.0 mm (0.079 in.)	When discolored
	4th, 5th	2.0 mm (0.079 in.)	When discolored
Clutch wave-plate phase difference		0.07-0.20 mm (0.003-0.008 in.)	0.05 mm (0.002 in.)
	Mark 1	2.6 mm (0.102 in.)	When discolored
	Mark 2	2.7 mm (0.106 in.)	When discolored
	Mark 3	2.8 mm (0.110 in.)	When discolored
	Mark 4	2.9 mm (0.114 in.)	When discolored
1st clutch end-plate thickness	Mark 5	3.0 mm (0.118 in.)	When discolored
	Mark 6	3.1 mm (0.122 in.)	When discolored
	Mark 7	3.2 mm (0.126 in.)	When discolored
	Mark 8	3.3 mm (0.130 in.)	When discolored
	Mark 9	3.4 mm (0.134 in.)	When discolored
	Mark 1	2.4 mm (0.095 in.)	When discolored
	Mark 2	2.5 mm (0.098 in.)	When discolored
	Mark 3	2.6 mm (0.102 in.)	When discolored
			When

Clutch

l	Mark 4	2.7  mm (0.106  in)	discolored
		2.7 mm (0.100 m.)	When
	Mark 5	2.8 mm (0.110 in.)	discolored
			When
	Mark 6	2.9 mm (0.114 in.)	discolored
2nd clutch end-plate thickness	Mark 7	3.0 mm (0.118 in.)	When
	Mark 8	3.1 mm (0.122 in.)	When
			When
	Mark 9	3.2 mm (0.126 in.)	discolored
3rd, 4th, 5th clutch end-plate thickness	Mark 1	2.1 mm (0.083 in.)	When discolored
	Mark 2	2.2 mm (0.087 in.)	When discolored
	Mark 3	2.3 mm (0.091 in.)	When discolored
	Mark 4	2.4 mm (0.095 in.)	When discolored
	Mark 5	2.5 mm (0.098 in.)	When discolored
	Mark 6	2.6 mm (0.102 in.)	When discolored
	Mark 7	2.7 mm (0.106 in.)	When discolored
	Mark 8	2.8 mm (0.110 in.)	When discolored
	Mark 9	2.9 mm (0.114 in.)	When discolored
	At stator shaft	22.984-23.000 mm (0.905-0.906 in.)	When worn or damaged
Diameter of needle bearing contact area	At 5th gear	51.975-51.991 mm (2.046-2.047 in.)	When worn or damaged
	At 4th gear collar	33.975-33.991 mm (1.3376-1.3382 in.)	When worn or damaged
	5th gear	57.000-57.019 mm	When worn of
ID of gears		(2.2441-2.2448 in.)	damaged
1.D. 01 genis	4th gear	40.000-40.016 mm (1.5748-1.5754 in )	When worn of damaged
	5th gear	0.04-0.10 mm (0.002-0.004 in )	
End play of gears	4th gear	0.1-0.22 mm (0.004-0.009 in.)	
		4.450 mm (0.1752	When worn or

		No. 1	in.)	damaged
		No. 2	4.475 mm (0.1762	When worn or damaged
		No. 3	4.500 mm (0.1772 in.)	When worn or damaged
		No. 4	4.525 mm (0.1781 in.)	When worn or damaged
		No. 5	4.550 mm (0.1791 in.)	When worn or damaged
		No. 6	4.575 mm (0.1801 in.)	When worn or damaged
		No. 7	4.600 mm (0.1811 in.)	When worn or damaged
	41 x 68 mm thrust washer thickness	No. 8	4.625 mm (0.1821 in.)	When worn or damaged
Mainshaft	theress	No. 9	4.650 mm (0.1831 in.)	When worn or damaged
		No. 10	4.675 mm (0.1841 in.)	When worn or damaged
		No. 11	4.700 mm (0.1850 in.)	When worn or damaged
		No. 12	4.725 mm (0.1860 in.)	When worn or damaged
		No. 13	4.750 mm (0.1870 in.)	When worn or damaged
		No. 14	4.775 mm (0.1880 in.)	When worn or damaged
		No. 15	4.800 mm (0.1890 in.)	When worn or damaged
	4th gear collar length		66.3-66.4 mm (2.610-2.614 in.)	
	Length of 4th gear collar flange from end		19.15-19.30 mm (0.754-0.760 in.)	When worn or damaged
	Sealing ring thickness		1.91 -1.97 mm (0.0752-0.0776 in.)	1.86 mm (0.0732 in.)
	Width of sealing ring groove		2.025-2.060 mm (0.0797-0.0811 in.)	2.080 mm (0.0819 in.)
	Clutch feed pipe O.D.		7.97-7.98 mm (0.3138-0.3142 in.)	7.95 mm (0.313 in.)
	Clutch feed pipe bushing I.D.		8.000-8.015 mm (0.3150-0.3156 in.)	8.030 mm (0.3161 in.)
		At torque converter housing	36.005-36.015 mm (1.4175-1.4179 in.)	When worn or damaged
	Diameter of needle bearing		34.982-34.998 mm	When worn or

	1	I.	1	1
	contact area	At 4th gear	(1.3772-1.3779 in.)	damaged
		At reverse gear	39.979-40.000 mm	When worn or
		At levelse geal	(1.5740-1.5748 in.)	damaged
		Ath gear	41.000-41.016 mm	When worn or
	ID of gears		(1.6142-1.6148 in.)	damaged
	I.D. of gears	Reverse gear	46.000-46.016 mm	When worn or
			(1.8110-1.8116 in.)	damaged
		5th gear	0.00-0.48 mm	
			(0.000-0.019 in.)	
	End play of gears	Ath gear	0.04-0.27 mm	
Countershaft	End play of gears		(0.002-0.011 in.)	
		Reverse gear	0.10-0.25 mm	
			(0.004-0.010 in.)	
	Collar, 35 x 47 x 7.8 mm thickness		7.8 mm (0.31 in.)	
	Collar, 37 x 41 x 54.3 mm		54.25-54.30 mm	
	length		(2.136-2.138 in.)	
	Pavarsa salactor hub width		25.45-25.65 mm	
	Reverse selector hub width		(1.002-1.010 in.)	
	Reverse selector hub $O D$		55.87-55.90 mm	When worn or
	Reverse selector hub O.D.		(2.200-2.201 in.)	damaged
		At 1st gear	39.986-39.999 mm	When worn or
			(1.5742-1.5748 in.)	damaged
	Diameter of needle bearing	At 2nd gear	39.986-39.999 mm	When worn or
	contact area		(1.5742-1.5748 in.)	damaged
		At 3rd gear collar	36.975-36.991 mm	When worn or
			(1.4557-1.4563 in.)	damaged
		1st gear	47.000-47.016 mm	When worn or
			(1.8504-1.8510 in.)	damaged
	ID of gears	2nd gear	46.000-46.016 mm	When worn or
		2114 gour	(1.8110-1.8116 in.)	damaged
		3rd gear	43.000-43.016 mm (1.6929-1.6935 in.)	When worn or damaged
		1st gear	0.04-0.12 mm (0.002-0.005 in.)	
	End play of gears	2nd gear	0.04-0.12 mm (0.002-0.005 in.)	
		3rd gear	0.10-0.22  mm (0.004-0.009 in)	
		No. 1	3.900 mm (0.154	When worn or
		No. 2	3.925 mm (0.155	When worn or damaged
			2.050 (0.155	
			13.950 mm (0.156	When worn or

		No. 3	in.)	damaged
		No 4	3.975 mm (0.156	When worn or
		110.4	in.)	damaged
		No 5	4.000 mm (0.157	When worn or
		110. 5	in.)	damaged
		No 6	4.025 mm (0.158	When worn or
		110.0	in.)	damaged
		No 7	4.050 mm (0.159	When worn or
		110. /	in.)	damaged
		No.8	4.075 mm (0.160	When worn or
		10. 8	in.)	damaged
		No 9	4.100 mm (0.161	When worn or
		110. 9	in.)	damaged
		No. 10	4.125 mm (0.162	When worn or
		100.10	in.)	damaged
		No. 11	4.150 mm (0.163	When worn or
	37 x 58 mm thrust washer thickness	NO. 11	in.)	damaged
		No. 12	4.175 mm (0.164	When worn or
		110.12	in.)	damaged
		No. 13	4.200 mm (0.165	When worn or
		INO. 15	in.)	damaged
Secondamy shaft		No. 14	4.225 mm (0.166	When worn or
Secondary shall			in.)	damaged
		No. 15	4.250 mm (0.167	When worn or
		NO. 15	in.)	damaged
		No. 16	4.275 mm (0.168	When worn or
		NO. 16	in.)	damaged
		No. 17	4.300 mm (0.169	When worn or
		INO. 17	in.)	damaged
		No. 18	4.325 mm (0.170	When worn or
			in.)	damaged
		No. 10	4.350 mm (0.171	When worn or
		NO. 19	in.)	damaged
		No. 20	4.375 mm (0.172	When worn or
		10.20	in.)	damaged
		No.1	4.80 mm (0.189	When worn or
		INO. I	in.)	damaged
		$N_{\odot}$ 2	4.85 mm (0.191	When worn or
		INU. Z	in.)	damaged
	40 x 51.5 mm thrust washer	No 2	4.90 mm (0.193	When worn or
	tnickness	1NO. 3	in.)	damaged
		No. 4	4.95 mm (0.195	When worn or
		1NO. 4	in.)	damaged
			5.00 mm (0.197	When worn or

#### 2007-08 GENERAL INFORMATION Specifications - Element

		No. 5	in.)	damaged
		No. 6	5.05 mm (0.199	When worn or
			111.)	uainageu
	3rd gear collar length		(1.728, 1.732  in)	
	Length of 2nd goon collon		(1.720-1.752 III.)	When were or
	flange from end		(0.207-0.213 in.)	damaged
	Sealing ring thickness		1.91-1.97 mm (0.0752-0.0776 in.)	1.86 mm (0.0732 in.)
	Width of sealing ring groove		2.025-2.060 mm (0.0797-0.0811 in.)	2.080 mm (0.0819 in.)
		3rd clutch feed pipe	11.47-11.48 mm (0.4516-0.4520 in.)	11.45 mm (0.4508 in.)
	Clutch feed pipe O.D.	1st clutch feed pipe	6.97-6.98 mm (0.2744-0.2748 in.)	6.95 mm (0.2736 in.)
	Clutch feed pipe bushing	3rd clutch feed pipe	11.500-11.518 mm (0.4528-0.4553 in.)	11.530 mm (0.4539 in.)
	O.D.	1st clutch feed pipe	7.018-7.030 mm (0.2763-0.2768 in.)	7.045 mm (0.2774 in.)
	ATF guide collar of sealing ring contact I.D.		29.000-29.021 mm (1.1417-1.1426 in.)	29.05 mm (1.144 in.)
Idlan caan shaft	Diameter of needle bearing contact area	End cover side	32.003-32.013 mm (1.2600-1.2604 in.)	When worn or damaged
idler gear shart	Thickness of cotters		1.39-1.42 mm (0.0547-0.0559 in.)	
	Reverse idler gear shaft diameter at needle bearing contact area		14.99-15.00 mm (0.5902-0.5906 in.)	When worn or damaged
<b>D</b>	I.D.		20.007-20.020 mm (0.7877-0.7882 in.)	When worn or damaged
Reverse idler gear	I.D. of reverse idler gear shaft contact area on transmission housing		14.800-14.818 mm (0.5827-0.5834 in.)	
	I.D. of reverse idler gear shaft holder		14.800-14.824* mm (0.5827- 0.5836 in.)	When worn or damaged
	ATF pump thrust clearance		0.03-0.06 mm (0.001-0.002 in.)	0.07 mm (0.003 in.)
	ATF pump gear-to-body	Drive gear	0.210-0.265 mm (0.008-0.010 in.)	
ATF pump	clearance	Driven gear	0.070-0.125 mm (0.003-0.005 in.)	
	ATF pump driven gear I.D.		14.016-14.034 mm (0.5518-0.5525 in.)	When worn or damaged

#### 2007-08 GENERAL INFORMATION Specifications - Element

	ATF pump driven gear shaft O.D.		13.980-13.990 mm (0.5504-0.5508 in.)	When worn or damaged
Stator shaft	Needle bearing contact I.D.	Torque converter side	27.000-27.021 mm (1.063-1.064 in.)	When worn or damaged
		ATF pump side	29.000-29.021 mm (1.1417-1.1426 in.)	
	Sealing ring contact area I.D.		29.000-29.021 mm (1.1417-1.1426 in.)	29.05 mm (1.144 in.)
Reverse shift fork	Fork finger thickness		5.90-6.00 mm (0.232-0.236 in.)	5.40 mm (0.213 in.)
Park gear and pawl				When worn or damaged
Samue hedu	Shift fork shaft bore I.D.		14.000-14.010 mm (0.5512-0.5516 in.)	
Servo body	Shift fork shaft valve bore I.D.		37.000-37.039 mm (1.4567-1.4582 in.)	37.045 mm (1.4585 in.)
Regulator valve body	Sealing ring contact I.D.		29.000-29.021 mm (1.1417-1.1426 in.)	29.05 mm (1.144 in.)

### AUTOMATIC TRANSMISSION AND A/T DIFFERENTIAL SPECIFICATION

			Standard or New			
Item	Measurement	Qualification	Wire Diameter	O.D.	Free Length	No. of Coils
Main valve body spring (see <u>MAIN VALVE BODY</u> <u>DISASSEMBLY,</u> <u>INSPECTION, AND</u> <u>REASSEMBLY</u> )	Shift valve A spring		0.8 mm (0.031 in.)	5.6 mm (0.220 in.)	28.1 mm (1.106 in.)	15.9
	Shift valve B spring		0.8 mm (0.031 in.)	5.6 mm (0.220 in.)	28.1 mm (1.106 in.)	15.9
	Shift valve C spring		0.8 mm (0.031 in.)	5.6 mm (0.220 in.)	28.1 mm (1.106 in.)	15.9
	Relief valve spring		1.0 mm (0.039 in.)	9.6 mm (0.378 in.)	34.1 mm (1.343 in.)	10.2
	Lock-up control valve spring		0.65 mm (0.026 in.)	7.1 mm (0.280 in.)	23.1 mm (0.909 in.)	12.7
	Cooler check valve spring		0.85 mm (0.033 in.)	6.6 mm (0.260 in.)	27.0 mm (1.063 in.)	11.3
	Servo control valve spring		0.7 mm (0.028 in.)	6.6 mm (0.260 in.)	35.7 mm (1.406 in.)	17.2
	1	1	1	1	1	

	Shift valve E spring	0.8 mm (0.031 in.)	5.6 mm (0.220	28.1 mm (1.106	15.9
	Stator reaction spring	4.5 mm (0.177 in.)	35.4 mm (1.394 in.)	30.3 mm (1.193 in.)	1.92
	Regulator valve spring A	1.9 mm (0.075 in.)	14.7 mm (0.579 in.)	80.6 mm (3.173 in.)	16.1
	Regulator valve spring B	1.6 mm (0.063 in.)	9.2 mm (0.362 in.)	44.0 mm (1.732 in.)	12.5
Regulator valve body spring (see <b>REGULATOR VALVE BODY</b>	Torque converter check valve spring	1.2 mm (0.047 in.)	8.6 mm (0.339 in.)	33.8 mm (1.331 in.)	12.2
DISASSEMBLY, INSPECTION, AND REASSEMBLY)	Lock-up shift valve spring	1.0 mm (0.039 in.)	6.6 mm (0.260 in.)	35.5 mm (1.398 in.)	18.2
	3rd accumulator spring	2.5 mm (0.098 in.)	14.6 mm (0.575 in.)	29.9 mm (1.177 in.)	4.9
	1st accumulator spring A	2.4 mm (0.094 in.)	18.6 mm (0.732 in.)	49.0 mm (1.929 in.)	7.1
	1st accumulator spring B	2.3 mm (0.091 in.)	12.2 mm (0.480 in.)	31.5 mm (1.240 in.)	6.6
Servo body spring (see <u>SERVO</u> <u>BODY DISASSEMBLY,</u> <u>INSPECTION, AND</u> <u>REASSEMBLY</u> )	Shift valve D spring	0.8 mm (0.031 in.)	5.6 mm (0.220 in.)	28.1 mm (1.106 in.)	15.9
	4th accumulator spring B	2.3 mm (0.091 in.)	12.2 mm (0.480 in.)	31.5 mm (1.240 in.)	6.6
	4th accumulator spring A	2.4 mm (0.094 in.)	18.6 mm (0.732 in.)	49.0 mm (1.929 in.)	7.1
	2nd accumulator	2.1 mm	10.8 mm	34.0 mm (1.339	8.2

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spring B	(0.083 in.)	(0.425 in.)	in.)	
2nd accumulator spring A	2.1 mm (0.083 in.)	16.6 mm (0.654 in.)	48.7 mm (1.917 in.)	8.4
5th accumulator spring	2.5 mm (0.098 in.)	14.6 mm (0.575 in.)	29.9 mm (1.177 in.)	4.9

### AUTOMATIC TRANSMISSION AND A/T DIFFERENTIAL SPECIFICATION

Item	Item Measurement Qualification Standard or New		Standard or New	Service Limit
	Pinion shaft contact area I.D.		18.000-18.025 mm (0.709-0.719 in.)	
	Carrier-to-pinion shaft clearance		0.017-0.109 mm (0.001-0.004 in.)	
A/T differential carrier	Driveshaft contact area I.D.		28.015-28.045 mm (1.103-1.104 in.)	
	Carrier-to-driveshaft clearance		0.035-0.086 mm (0.002-0.003 in.)	0.12 mm (0.005 in.)
	Carrier bearing starting torque	For new bearing	2.7-3.9 N.m (28-40 kgf.cm, 24-35 lbf.in.)	Adjust
	(preload)	For used bearing	2.5-3.6 N.m (25-37 kgf.cm, 22-32 lbf.in.)	Adjust
	Final driven gear backlash		0.085-0.144 mm (0.003-0.006 in.)	0.2 mm (0.008 in.)
	Backlash		1.1-1.6 mm (0.04-0.06 in.)	
A/T differential pinion gear	I.D.		18.042-18.066 mm (0.7103-0.7113 in.)	
	Pinion gear-to-pinion shaft clearance		0.059-0.095 mm (0.0023-0.0037 in.)	0.12 mm (0.005 in.)
	Diameter of transfer shaft on	At roller bearing	38.485-38.500 mm (1.5152-1.5157 in.)	38.43 mm (1.513 in.)
	bearing contact area	At tapered roller bearing	24.975-24.990 mm (0.9833-0.9839 in.)	24.92 mm (0.9811 in.)
Transfer assembly	Transfer drive gear diameter	At tapered roller bearing	40.002-40.018 mm (1.5749-1.5755 in.)	38.95 mm (1.533 in.)
usseniory	Diameter of transfer driven gear	At driven gear side	35.002-35.018 mm (1.3780-1.3787 in.)	34.95 mm (1.376 in.)
	area	At shaft splines side	26.975-26.988 mm (1.0620-1.0625 in.)	26.92 mm (1.060 in.)
				1

#### 2007-08 GENERAL INFORMATION Specifications - Element

Transfer gear backlash	0.06-0.16 mm (0.002- 0.006 in.)	Adjust
Total starting torque (preload)	1.96-3.14 N.m (20.0- 32.0 kgf.cm, 17.4-27.8 lbf.in.)	Adjust

### **REAR DIFFERENTIAL**

#### **REAR DIFFERENTIAL SPECIFICATION**

Item	Measurement	Qualification	Standard or New
Rear differential fluid	Canagity Use Handa Dual Rump Fluid II	Fluid change	1.0 L (1.1 US qt)
	Capacity Use Honda Dual Pump Fluid II	Overhaul	1.21 (1.3 US qt)

#### STEERING

#### **STEERING SPECIFICATION**

Item	Measurement	Qualification	Standard or New	Service Limit
Steering	Rotational play measured at outside edge with engine running		0-10 mm (0- 0.39 in.)	
wheel	Initial turning load measured at outside edge with engine running		29 N (3.0 kgf, 6.6 lbf)	If higher, check gearbox and pump
Gearbox	Angle of rack guide screw loosened from locked position		20° max.	
Pump	Output pressure with shut-off valve closed		7,460-8,140 kPa (76-83 kgf/cm <sup>2</sup> , 1,080-1,180 psi)	
Power	Capacity Use Honda Power Steering	Reservoir capacity	0.27 L (0.28 US	S qt)
steering fluid	Fluid	System capacity	0.83 L (0.87 US qt)	

### SUSPENSION

#### SUSPENSION SPECIFICATION

Item	Measurement	Qualification	Standard or New Service Limit
	Camber	Front	$-0^{\circ}13' \pm 45'$
		Rear	$-1^{\circ}00' \pm 45'$
	Caster	Front	$1^{\circ}50' \pm 1^{\circ}$
Wheel alignment (LX,	Total toe-in	Front	$0 \pm 3 \text{ mm} (0 \pm 0.12 \text{ in.})$
EX)		Rear	$2^{+2}_{-1}$ mm (0.08 <sup>+0.08</sup> <sub>-0.04</sub> in.)
	Front wheel turning	Inward	$40^{\circ} \ 05' \pm 2^{\circ}$
	angle	Outward	32°16' (Reference)

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	Combon	Front	$-0^{\circ}24' \pm 45'$		
	Camber	Rear	$-1^{\circ}06' \pm 45'$		
	Caster	Front	$1^{\circ}50' \pm 1^{\circ}$		
Wheel alignment (SC)		Front	$0 \pm 3 \text{ mm} (0 \pm 0.12 \text{ in})$	n.)	
	Total toe-in	Rear	$2^{+2}_{-1}$ mm (0.08 <sup>+0.08</sup> 00.4 in.)		
	Front wheel turning	Inward	$38^{\circ} 24' \pm 2^{\circ}$		
	angle	Outward	31° 24 '(Reference)		
	Aluminum wheel runout	Axial	0-0.6 mm (0-0.02	2.0 mm (0.08	
			in.)	in.)	
		Radial	0-0.6 mm (0-0.02	1.5 mm (0.06	
Wheel			in.)	in.)	
WIICCI		Avial	0-1.4 mm (0-0.06	2.0 mm (0.08	
	Staal whaal runout		in.)	in.)	
	Steel wheel fullout	Padial	0-1.4 mm (0-0.06	1.5 mm (0.06	
		Kaulai	in.)	in.)	
Wheel bearing	End play	Front	0-0.05 mm (0-0.002 in.)		
		Rear	0-0.05 mm (0-0.002 in.)		

### BRAKES

#### **BRAKES SPECIFICATION**

Item	Measurement	Qualification	Standard or New	Service Limit	
	Distance traveled when lever pulled with	LX, EX	4 to 7 clicks	•	
	196 N (20 kgf, 44 lbf) of force	SC	8 to 10 clicks		
Parking brake	Drum I.D.		169.9-170.0 mm (6.689-6.693 in.)	171 mm (6.732 in.)	
	Shoe lining thickness		2.5 mm (0.098 in.)	1.0 mm (0.04 in.)	
D 1		M/T	178 mm (7 in.)	•	
Brake pedal	redai height (carpet removed)	A/T	180 mm (7 3/32 in.)		
pedal	Free play		1-5 mm (1/16-3/16 in.)		
Master cylinder	Piston-to-pushrod clearance		0-0.4 mm (0-0.02 in.)		
	Thickness	Front	22.9-23.1 mm (0.90- 0.91 in.)	21.0 mm (0.83 in.)	
Brake disc		Rear	8.9-9.1 mm (0.35- 0.36 in.)	7.5 mm (0.30 in.)	
	Runout	Front		0.04 mm (0.0016 in.)	
	Parallelism			0.015 mm (0.0006 in.)	
		Front	10.6-11.2 mm (0.42-	1.6 mm (0.06	

#### 2007-08 GENERAL INFORMATION Specifications - Element

Brake pad Thickness			0.44 in.)	in.)
	Thickness	Rear	8.6-9.7 mm (0.34- 0.38 in.)	1.6 mm (0.06 in.)

### **AIR CONDITIONING**

### AIR CONDITIONING SPECIFICATION

Item	Measurement	Qualification	Standard or New
Refrigerant	Туре		HFC-134a (R-134a)
	Capacity of system		500-550 g (17.6-19.4 oz)
Refrigerant oil	Туре		DENSO ND-OIL 8 (P/N 38897-PR7-A01AH or 38899-PR7-A01)
	Capacity of components	Condenser	25 mL (5/6 fl.oz)
		Evaporator	45 mL (1 1/2 fl.oz)
		Each line and hose	10 mL (1/3 fl.oz)
		Compressor	160-175 mL (5 1/3-5 5/6 fl.oz)
Compressor	Field coil resistance	At 68°F (20°C)	3.9-4.3 ohms
	Pulley-to-pressure plate clearance		0.35-0.6 mm (0.014-0.024 in.)

# **DESIGN SPECIFICATIONS**

#### **DESIGN SPECIFICATIONS**

Item	Measurement	Qualification	Standard or New
	Overall length	LX	4,300 mm (169.3 in.)
		EX	4,326 mm (170.3 in.)
		SC	4,341 mm (170.9 in.)
	Overall width		1,815 mm (71.5 in.)
	Overall height	LX, EX	1,788 mm (70.4 in.)
DIMENSIONS		SC	1,763 mm (69.4 in.)
DIMENSIONS	Wheelbase		2,575 mm (101.4 in.)
	Track	Front (LX, EX)	1,577 mm (62.1 in.)
		Front (SC)	1,578 mm (62.1 in.)
		Rear (LX, EX)	1,582 mm (62.3 in.)
		Rear (SC)	1,587 mm (62.5 in.)
	Seating capacity		Four (4)
WEIGHT	Gross Vehicle Weight Rating (GVWR)		2,020 kg (4,450 lbs)
	Туре		Water cooled, 4-stroke DOHC i-VTEC gasoline engine
		1	

	Cylinder		Inline 4-cylinder, transverse
	Bore and stroke		87 x 99 mm (3.43 x 3.90 in.)
	Displacement		$2354\mathrm{cm}^3(144\mathrm{cu}\mathrm{in})$
	Compression ratio		97
FNGINE	Valve train		Chain drive, DOHC i-VTEC 4 valves per cylinder
LINGINE	Lubrication system		Forced, wet sump, with trochoid pump
	Oil pump displacement	At 6,000 rpm	52.8 L (55.8 US qt)/minute
	Water pump displacement	At 6,000 rpm	95.5 L (101 US qt)/minute
	Fuel required		Regular UNLEADED gasoline with 87 Pump Octane Number or higher
	Туре		Gear reduction
	Normal output		1.6 kW
STARTER	Nominal voltage		12V
	Hour rating		30 seconds
	Direction of rotation		Clockwise as viewed from drive end
	Туре		Single plate dry, diaphragm spring
CLUTCH	Clutch friction material surface area		174 cm <sup>2</sup> (26.97 sq in.)
	Туре		Synchronized, 5-speed forward, 1 reverse
	Primary reduction		Direct 1:1
	Gear ratio	1st	3.533
		2nd	2.042
MANUAL		3rd	1.355
IKANSMISSION		4th	1.028
		5th	0.825
		Reverse	3.583
	Final reduction	Туре	Single helical gear
		Gear ratio	4.765
	Туре		Electronically controlled automatic, 5- speed forward, 1 reverse, 3-element torque converter with lock-up clutch
	Primary reduction		Direct 1:1
TRANSMISSION	Gear ratio	1st	2.786
		2nd	1.614
		3rd	1.082
		4th	0.773

		5th	0.566
		Reverse	2.000
		Туре	Single helical gear
	Transfer gear	Gear ratio	4.765
	Differential final	Туре	Single helical gear
	gears	Gear ratio	4.500
	Туре		Hydraulic power-assisted rack and pinion
		LX, EX	16.2
	Overall ratio	SC	15.34
STEERING		LX, EX	3.26
	Turns, lock-to-lock	SC	2.98
	Steering wheel diameter		386 mm (15.2 in.)
	Туре	Front	Independent strut with stabilizer, coil spring
CURDENSION		Rear	Independent double wishbone with stabilizer, coil spring
SOSLENSION	Shock absorber	Front	Telescopic, hydraulic, nitrogen gas- filled
	SHUCK AUSUIDEI	Rear	Telescopic, hydraulic, nitrogen gas- filled
	Size of front and	LX, EX	P215/70R1699S
TIRES	rear tires	SC	P225/55R18 97H
	Size of spear tires		T145/90D16 106M
	Camban	Front	-0° 13'
WHEEL	Camber	Rear	-1° 00'
ALIGNMENT (LX,	Caster	Front	1° 50'
EX)		Front	0 mm (0 in.)
	Total toe-in	Rear	2 mm (0.08 in.)
		Front	-0° 24'
	Camber	Rear	-1° 06'
WHEEL	Caster	Front	1° 50'
ALIGNMENT (SC)		Front	0 mm (0 in.)
	Total toe-in	Rear	2 mm (0.08 in.)
BRAKES	Type of service brake	Front	Power-assisted self-adjusting ventilated disc
		Rear	Power-assisted self-adjusting solid disc
	Type of parking brake		Mechanical actuating, rear wheels
	Pad friction surface	Front	46.0 cm <sup>2</sup> (7.13 sq in.) x 2

	area	Rear	27.9 cm <sup>2</sup> (4.32 sq in.) x 2
	Parking brake shoe friction surface area		49.0 cm <sup>2</sup> (7.6 sq in.) x 2
	Compressor	Туре	Swash plate
		Capacity	188 mL (11.47 cu in.)/rev.
		Maximum speed	7,922 rpm
		Lubricant capacity	160 mL (51/3 fl.oz)
		Lubricant type	DENSO ND-OIL 8
	Condenser	Туре	Corrugated fin
	Evaporator	Туре	Corrugated fin
		Туре	Radial fan
AIR		Motor type	190 W/12 V
CONDITIONING	Blower	Speed control	Infinite variable
		Maximum capacity	$480 \text{ m}^3$ (16.900 cu ft)/h
	Temperature control		Air-mix type
	1	Туре	Dry, single plate, poly-V belt drive
	Communication allocation	Electrical power	
	Compressor clutch	consumption at 68°F (20°C)	35 W max. at 12 V
		Туре	HFC-134a (R-134a)
	Refrigerant	Capacity	500-550 g (17.6-19.4 oz)
	Battery		12 V-47 Ah/20 HR (12 V-38 Ah/5HR)
	Fuses	Under-hood fuse/relay box	100 A, 50 A, 40 A, 30 A, 20 A, 15 A, 10 A, 7.5 A
		Under-dash fuse/relay box	20 A, 15 A, 10 A, 7.5 A
	Light bulbs	Headlight high/low beam(LX, EX)	12 V-60/55 W (H4/HB2)
		Headlight high beam (SC)	12 V-60 W (HB3)
ELECTRICAL		Headlight low beam (SC)	12 V-55 W (H11)
RATINGS		Front turn signal/parking lights	12V-21/5 W (LX, EX) 12V-28/8 W (SC)
		Front side marker lights	12 V-3CP (LX, EX) 12 V-5 W (SC)
		Rear turn signal lights	12 V-21 W (Amber)
		Brake/rear side marker lights/taillights	12 V-21/5 W
		High mount brake light	12 V-21 W

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	Back-up lights	12 V-18 W
	License plate lights	12 V-5 W
	Ceiling lights	12 V-10 W
	Spotlights	12 V-8 W
	Gauge lights	LED
	Indicator lights	LED
Washer reservoir	Capacity	4.5 L (4.7 US qt)

#### **BODY SPECIFICATIONS**

#### LX, EX:



#### \*': LX •': EX



SC:

#### 2007-08 GENERAL INFORMATION Specifications - Element



**Fig. 2: Identifying Body Specifications (SC)** Courtesy of AMERICAN HONDA MOTOR CO., INC.