Navigation Tools: Click on the “Table of Contents” below, or use the Bookmarks to the left.

Specifications

Standards and Service Limits

Engine Electrical

Item	Measurement	Qualification	Standard or New	Service Limit
Ignition coil	Rated voltage		12 V	
	Firing order		1−3−4−2	
Spark plug	Type (All models except PZEV)	NGK	ILZKR7B-11S	
		DENSO	SXU22HCR11S	
	Type (PZEV)	NGK	DILZKR7A11GS	
	Gap		1.0−1.1 mm (0.039−0.043 in)	−
Ignition timing	At idle Check the red mark	M/T in neutral, A/T in N or P	8±2 °BTDC	
Drive belt	Tension		Auto-tensioner	
Alternator	Output	At 13.5 V and normal engine temperature	105 A	
	Coil (rotor) resistance	At 68 °F (20 °C)	3.4−3.8 Ω	
	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		3.24 N (0.33 kgf, 0.73 lbf)	−
Starter	Output		1.6 kW	
	Commutator mica depth		0.40−0.50 mm (0.016−0.020 in)	0.15 mm (0.006 in)
	Commutator runout		0.02 mm (0.001 in) max.	0.05 mm (0.002 in)
	Commutator O.D.		28.0−28.1 mm (1.10−1.11 in)	27.5 mm (1.08 in)
	Brush length		11.1−11.5 mm (0.44−0.45 in)	4.3 mm (0.17 in)

Engine Assembly

Item	Measurement	Qualification	Standard or New	Service Limit
Compression	Pressure (check the engine with the starter cranking)	Minimum	−	932 kPa (9.5 kgf/cm², 135 psi)
		Maximum variation	−	196 kPa (2.0 kgf/cm², 28 psi)

Cylinder Head

Item	Measurement	Qualification	Standard or New	Service Limit
Head	Warpage		—	0.05 mm (0.002 in)
	Height		103.95—104.05 mm (4.093—4.096 in)	103.8 mm (4.087 in)
Camshaft	End play		0.05—0.20 mm (0.002—0.008 in)	0.4 mm (0.02 in)
	Camshaft-to-holder oil clearance	No. 1 journal	0.030—0.069 mm (0.0012—0.0027 in)	0.15 mm (0.006 in)
		No. 2 journal	0.060—0.099 mm (0.0024—0.0039 in)	0.15 mm (0.006 in)
		No. 3 journal	0.060—0.099 mm (0.0024—0.0039 in)	0.15 mm (0.006 in)
		No. 4 journal	0.060—0.099 mm (0.0024—0.0039 in)	0.15 mm (0.006 in)
		No. 5 journal	0.060—0.099 mm (0.0024—0.0039 in)	0.15 mm (0.006 in)
	Total runout		0.03 mm (0.001 in) max.	0.04 mm (0.002 in)
	Cam lobe height (All models except PZEV)	Intake PRI	33.744 mm (1.3285 in)	—
		Intake MID	35.456 mm (1.3959 in)	—
		Intake SEC	33.744 mm (1.3285 in)	—
		Exhaust	34.291 mm (1.3500 in)	—
	Cam lobe height (PZEV)	Intake PRI	33.744 mm (1.3285 in)	—
		Intake MID	35.456 mm (1.3959 in)	—
		Intake SEC	33.744 mm (1.3285 in)	—
		Exhaust PRI	34.232 mm (1.3477 in)	—
Valve	Clearance (cold)	Intake	0.21—0.25 mm (0.008—0.010 in)	—
		Exhaust	0.25—0.29 mm (0.010—0.011 in)	—
	Stem O.D.	Intake	5.475—5.485 mm (0.2156—0.2159 in)	5.445 mm (0.2144 in)
		Exhaust	5.450—5.460 mm (0.2146—0.2150 in)	5.42 mm (0.213 in)
	Stem-to-guide clearance	Intake	0.030—0.055 mm (0.0012—0.0022 in)	0.08 mm (0.003 in)
		Exhaust	0.055—0.080 mm (0.0022—0.0031 in)	0.11 mm (0.004 in)
Valve seat	Width	Intake	1.25—1.55 mm (0.049—0.061 in)	2.00 mm (0.079 in)
		Exhaust	1.25—1.55 mm (0.049—0.061 in)	2.00 mm (0.079 in)
	Stem installed height	Intake	44.0—44.5 mm (1.73—1.75 in)	44.7 mm (1.76 in)
		Exhaust	44.0—44.5 mm (1.73—1.75 in)	44.7 mm (1.76 in)
Valve guide	I.D.	Intake	5.515—5.530 mm (0.2171—0.2177 in)	5.55 mm (0.219 in)
		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 (0.60—0.64 in)	—
		Exhaust	15.5—16.5 mm (0.61—0.65 in)	—
Rocker arm	Arm-to-shaft clearance (All models except PZEV)	Intake	0.018—0.059 mm (0.0007—0.0023 in)	0.08 mm (0.003 in)
		Exhaust	0.018—0.056 mm (0.0007—0.0022 in)	0.08 mm (0.003 in)
	Arm-to-shaft clearance (PZEV)	Intake	0.018—0.059 mm (0.0007—0.0023 in)	0.08 mm (0.003 in)
		Exhaust	0.018—0.059 mm (0.0007—0.0023 in)	0.08 mm (0.003 in)

Standards and Service Limits

Engine Block

Item	Measurement	Qualification	Standard or New	Service Limit
Block	Warpage of deck		0.07 mm (0.003 in) max.	0.10 mm (0.004 in)
	Bore diameter	A or I	87.010–87.020 mm (3.4256–3.4260 in)	87.070 mm (3.4279 in)
		B or II	87.000–87.010 mm (3.4252–3.4256 in)	87.070 mm (3.4279 in)
	Bore taper		–	0.02 mm (0.001 in)
	Reboring limit		–	0.25 mm (0.010 in)
Piston	Skirt O.D. at 13 mm (0.5 in) from bottom of skirt	No letter or A	86.980–86.990 mm (3.4244–3.4248 in)	86.930 mm (3.4224 in)
		Letter B	86.970–86.980 mm (3.4240–3.4244 in)	86.920 mm (3.4220 in)
	Clearance in cylinder		0.020–0.040 mm (0.0008–0.0016 in)	0.05 mm (0.002 in)
Piston ring	Ring-to-groove clearance	Top	0.060–0.085 mm (0.0024–0.0033 in)	0.13 mm (0.005 in)
		Second	0.040–0.065 mm (0.0016–0.0026 in)	0.13 mm (0.005 in)
	Ring end gap	Top	0.20–0.35 mm (0.008–0.014 in)	0.60 mm (0.024 in)
		Second	0.50–0.65 mm (0.020–0.026 in)	0.70 mm (0.028 in)
		Oil	0.20–0.70 mm (0.008–0.028 in)	0.75 mm (0.030 in)
Piston pin	O.D.		21.961–21.965 mm (0.8646–0.8648 in)	21.953 mm (0.8643 in)
	Pin-to-piston clearance		-0.005–0.002 mm (-0.0002–0.0001 in)	0.005 mm (0.0002 in)
Connecting rod	Pin-to-rod clearance		0.005–0.015 mm (0.0002–0.0006 in)	0.02 mm (0.001 in)
	Small-end bore diameter		21.970–21.976 mm (0.8650–0.8652 in)	–
	Large-end bore diameter		51.0 mm (2.01 in)	–
	End play		0.15–0.35 mm (0.006–0.014 in)	0.40 mm (0.016 in)
Crankshaft	Main journal diameter	No. 1 journal	54.984–55.008 mm (2.1647–2.1657 in)	–
		No. 2 journal	54.984–55.008 mm (2.1647–2.1657 in)	–
		No. 3 journal	54.976–55.000 mm (2.1644–2.1654 in)	–
		No. 4 journal	54.984–55.008 mm (2.1647–2.1657 in)	–
		No. 5 journal	54.984–55.008 mm (2.1647–2.1657 in)	–
	Rod journal diameter		47.976–48.000 mm (1.8888–1.8898 in)	–
	Rod/main journal taper		0.005 mm (0.0002 in) max.	0.010 mm (0.0004 in)
	Rod/main journal out-of-round		0.004 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)
	Total runout		0.03 mm (0.001 in) max.	0.04 mm (0.002 in)
Crankshaft bearing	Main bearing-to-journal oil clearance	No. 1 journal	0.017–0.041 mm (0.0007–0.0016 in)	0.050 mm (0.0020 in)
		No. 2 journal	0.017–0.041 mm (0.0007–0.0016 in)	0.050 mm (0.0020 in)
		No. 3 journal	0.025–0.049 mm (0.0010–0.0019 in)	0.055 mm (0.0022 in)
		No. 4 journal	0.017–0.041 mm (0.0007–0.0016 in)	0.050 mm (0.0020 in)
		No. 5 journal	0.017–0.041 mm (0.0007–0.0016 in)	0.050 mm (0.0020 in)
	Connecting rod bearing-to-journal oil clearance		0.032–0.066 mm (0.0013–0.0026 in)	0.077 mm (0.0030 in)

Engine Lubrication

Item	Measurement	Qualification	Standard or New	Service Limit
Engine oil	Capacity ('08-09 models)	Engine overhaul	5.3 L (5.6 US qt)	—
		Oil change including filter	4.2 L (4.4 US qt)	—
		Oil change without filter	4.0 L (4.2 US qt)	—
	Capacity ('10 model)	Engine overhaul	5.1 L (5.4 US qt)	—
		Oil change including filter	4.0 L (4.2 US qt)	—
		Oil change without filter	3.8 L (4.0 US qt)	—
Oil pump	Inner rotor-to-outer rotor radial clearance		0.050—0.150 mm (0.0020—0.0059 in)	0.19 mm (0.007 in)
	Pump housing-to-outer rotor radial clearance		0.150—0.210 mm (0.0059—0.0083 in)	0.23 mm (0.009 in)
	Pump housing-to-outer rotor axial clearance		0.035—0.070 mm (0.0014—0.0028 in)	0.12 mm (0.005 in)
	Balancer shafts, journal diameter	No. 1 journal, front shaft	19.938—19.950 mm (0.7850—0.7854 in)	19.92 mm (0.784 in)
		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 shaft	32.949—32.961 mm (1.2972—1.2977 in)	32.93 mm (1.296 in)
		No. 2 journal, rear shaft	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 (0.006 in)
		Rear	0.063—0.108 mm (0.0025—0.0043 in)	0.14 mm (0.006 in)
	Balancer shafts, shaft-to-bearing clearance	No. 1 journal, front shaft	0.050—0.082 mm (0.0020—0.0032 in)	0.10 mm (0.004 in)
		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 shaft	0.060—0.120 mm (0.0024—0.0047 in)	0.15 mm (0.006 in)
		No. 2 journal, rear shaft	0.060—0.120 mm (0.0024—0.0047 in)	0.15 mm (0.006 in)
	Balancer shaft bearings, I.D.	No. 1 journal, front shaft	20.000—20.020 mm (0.7874—0.7882 in)	20.03 mm (0.789 in)
		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 shaft	33.021—33.069 mm (1.3000—1.3019 in)	33.09 mm (1.303 in)
		No. 2 journal, rear shaft	33.021—33.069 mm (1.3000—1.3019 in)	33.09 mm (1.303 in)
	Relief valve, oil pressure with oil temperature at 176 °F (80 °C)	At idle	69 kPa (0.7 kgf/cm², 10.0 psi)	—
		At 3,000 rpm	304 kPa (3.1 kgf/cm², 44 psi)	—

Standards and Service Limits

Cooling System

Item	Measurement	Qualification	Standard or New	Service Limit
Radiator	Coolant capacities (including engine, heater, hoses, and reservoir) ('08-09 models)	Engine overhaul (M/T: DENSO)	8.2 L (2.17 US gal)	—
		Engine overhaul (M/T: TRAD)	8.1 L (2.14 US gal)	—
		Engine overhaul (A/T: DENSO)	8.1 L (2.14 US gal)	—
		Engine overhaul (A/T: TRAD)	8.0 L (2.11 US gal)	—
		Coolant change (M/T: DENSO)	6.1 L (1.61 US gal)	—
		Coolant change (M/T: TRAD)	6.0 L (1.59 US gal)	—
		Coolant change (A/T: DENSO)	6.0 L (1.59 US gal)	—
		Coolant change (A/T: TRAD)	5.9 L (1.56 US gal)	—
	Coolant capacities (including engine, heater, hoses, and reservoir) ('10 model)	Engine overhaul (M/T: DENSO)	7.3 L (1.93 US gal)	—
		Engine overhaul (M/T: TRAD)	7.2 L (1.90 US gal)	—
		Engine overhaul (A/T: DENSO)	7.2 L (1.90 US gal)	—
		Engine overhaul (A/T: TRAD)	7.1 L (1.88 US gal)	—
		Coolant change (M/T: DENSO)	6.1 L (1.61 US gal)	—
		Coolant change (M/T: TRAD)	6.0 L (1.59 US gal)	—
		Coolant change (A/T: DENSO)	6.0 L (1.59 US gal)	—
		Coolant change (A/T: TRAD)	5.9 L (1.56 US gal)	—
	Coolant type NOTE: If the vehicle is regularly driven in very low temperatures (under -31 °F (-35 °C)), a 60% concentration of coolant should be used (see page 10-6)		Honda Long Life Antifreeze/Coolant Type 2	
Coolant reservoir	Coolant capacity		0.68 L (0.180 US gal)	—
Radiator cap	Opening pressure		93—123 kPa (0.95—1.25 kgf/cm², 13.5—18 psi)	—
Thermostat	Opening temperature	Begins to open	169—176 °F (76—80 °C)	—
		Fully open	194 °F (90 °C)	—
	Valve lift at fully open		8.0 mm (0.31 in) min.	—

Fuel and Emissions

Item	Measurement	Qualification	Standard or New	Service Limit
Fuel pressure regulator	Pressure with fuel pressure gauge connected		330—380 kPa (3.4—3.9 kgf/cm², 48—55 psi)	—
Fuel tank	Capacity		70 L (18.5 US gal)	—
Engine idle	Idle speed without load	A/T in N or P	800 ± 50 rpm	
		M/T in neutral	780 ± 50 rpm	
	Idle speed with high electric load (A/C switch on, temperature set to max cool, blower fan on high, rear window defogger on, and headlights on high beam)	A/T in N or P	800 ± 50 rpm	
		M/T in neutral	780 ± 50 rpm	

Clutch

Item	Measurement	Qualification	Standard or New	Service Limit
Clutch pedal	Height from floor		174 mm (6.9 in)	—
	Stroke		130—140 mm (5.1—5.5 in)	—

Clutch (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
Flywheel	Runout on clutch mating surface		0.05 mm (0.002 in) max.	0.15 mm (0.006 in)
Clutch disc	Rivet head depth		1.15–1.75 mm (0.045–0.069 in)	0.7 mm (0.03 in)
	Thickness		7.30–7.90 mm (0.287–0.311 in)	6.0 mm (0.24 in)
Pressure plate	Warpage		0.03 mm (0.001 in) max.	0.15 mm (0.006 in)
	Evenness of the height of the diaphragm spring fingers		0.6 mm (0.02 in) max.	0.8 mm (0.03 in)

Manual Transmission and M/T Differential

Item	Measurement	Qualification	Standard or New	Service Limit
Manual transmission fluid	Capacity : use genuine Honda MTF	Fluid change	1.9 L (2.0 US qt)	—
		Overhaul	2.0 L (2.1 US qt)	—
Mainshaft	End play		0.11–0.17 mm (0.004–0.007 in)	Adjust
	Diameter of bushing contact area		20.80–20.85 mm (0.819–0.821 in)	20.75 mm (0.817 in)
	Diameter of ball bearing contact area (clutch housing side)		27.977–27.990 mm (1.1015–1.1020 in)	27.92 mm (1.099 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 (1.1018–1.1024 in)	27.93 mm (1.100 in)
	Diameter of 4th/5th gears distance collar contact area		31.984–32.000 mm (1.2592–1.2598 in)	31.93 mm (1.257 in)
	Runout		0.02 mm (0.001 in) max.	0.05 mm (0.002 in)
Mainshaft 3rd, 4th, 5th gear	I.D.		44.009–44.025 mm (1.7326–1.7333 in)	44.08 mm (1.735 in)
	Clearance	2nd-3rd	0.06–0.16 mm (0.002–0.006 in)	0.25 mm (0.010 in)
	End play (distance collar side)	4th, 5th	0.06–0.16 mm (0.002–0.006 in)	0.25 mm (0.010 in)
	Thickness		23.92–23.97 mm (0.942–0.944 in)	23.80 mm (0.937 in)
Mainshaft 4th, 5th gear distance collar	I.D.		32.00–32.01 mm (1.2598–1.2602 in)	32.02 mm (1.261 in)
	O.D.		38.989–39.000 mm (1.5350–1.5354 in)	38.94 mm (1.533 in)
	Overall Length		51.95–52.05 mm (2.045–2.049 in)	—
	Length of needle bearing contact area	4th, 5th	24.03–24.08 mm (0.946–0.948 in)	—
MBS distance collar	I.D.		28.00–28.10 mm (1.102–1.106 in)	28.12 mm (1.107 in)
	Length		23.95–24.05 mm (0.943–0.947 in)	—
Countershaft	Diameter of needle bearing contact area (clutch housing side)		40.000–40.015 mm (1.5748–1.5754 in)	39.95 mm (1.573 in)
	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)
	Diameter of 1st gear distance collar contact area		39.937–39.950 mm (1.5723–1.5728 in)	39.88 mm (1.570 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 (0.002–0.004 in)	Adjust

Standards and Service Limits

Manual Transmission and M/T Differential (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
Countershaft 1st, 2nd gear	I.D.		52.010–52.029 mm (2.0476–2.0484 in)	52.08 mm (2.050 in)
	Clearance	2nd-3rd	0.06–0.16 mm (0.002–0.006 in)	0.25 mm (0.010 in)
	End play (distance collar side)	1st	0.06–0.16 mm (0.002–0.006 in)	0.25 mm (0.010 in)
	Thickness	1st	22.92–22.97 mm (0.902–0.904 in)	22.87 mm (0.900 in)
		2nd	27.92–27.97 mm (1.099–1.101 in)	27.87 mm (1.097 in)
Countershaft 1st, 2nd gear distance collar	I.D.		39.95–39.96 mm (1.5728–1.5732 in)	39.97 mm (1.574 in)
	O.D.		46.989–47.000 mm (1.8500–1.8504 in)	46.94 mm (1.848 in)
	Length	1st	23.03–23.08 mm (0.907–0.909 in)	–
		2nd	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 (0.823 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 (0.02 in)
Double cone synchro	Outer synchro ring-to-synchro cone clearance (ring pushed against gear)	3rd gear	0.46–0.97 mm (0.018–0.038 in)	0.3 mm (0.01 in)
		4th gear	0.70–1.19 mm (0.028–0.047 in)	0.3 mm (0.01 in)
	Synchro cone-to-gear clearance (ring pushed against gear)	3rd gear	0.51–1.07 mm (0.020–0.042 in)	0.3 mm (0.01 in)
		4th gear	0.50–1.04 mm (0.020–0.041 in)	0.3 mm (0.01 in)
	Outer synchro ring-to-gear clearance (ring pushed against gear)		0.95–1.68 mm (0.037–0.066 in)	0.6 mm (0.02 in)
Triple cone synchro	Outer synchro ring-to-synchro cone clearance (ring pushed against gear)		0.70–1.19 mm (0.028–0.047 in)	0.3 mm (0.01 in)
	Synchro cone-to-gear clearance (ring pushed against gear)		0.50–1.04 mm (0.020–0.041 in)	0.3 mm (0.01 in)
	Outer synchro ring-to-gear clearance (ring pushed against gear)		0.95–1.68 mm (0.037–0.066 in)	0.6 mm (0.02 in)
Shift fork	Finger 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 (0.04 in)
Reverse shift fork	Finger width		13.4–13.7 mm (0.53–0.54 in)	–
	Fork-to-reverse idler gear clearance		0.20–0.59 mm (0.008–0.023 in)	1.2 mm (0.05 in)
Shift arm	I.D.		13.973–14.000 mm (0.5501–0.5512 in)	–
	Finger width		16.9–17.0 mm (0.665–0.669 in)	–
	Shift arm-to-shift fork clearance		0.2–0.5 mm (0.01–0.02 in)	0.6 mm (0.02 in)
Select lever	Finger width		14.85–14.95 mm (0.585–0.589 in)	–
Change lever	Shaft-to-select lever clearance		0.05–0.25 mm (0.002–0.010 in)	0.50 mm (0.020 in)
	Groove width		15.00–15.10 mm (0.591–0.594 in)	–
	Shaft-to-shift arm clearance		0.013–0.070 mm (0.0005–0.0028 in)	0.1 mm (0.00 in)
M/T differential carrier	Backlash		0.05–0.15 mm (0.002–0.006 in)	–
M/T differential 80 mm shim	80 mm shim-to-bearing outer race clearance in transmission housing		0–0.10 mm (0.0–0.004 in)	Adjust

Automatic Transmission and A/T Differential

Item	Measurement	Qualification	Standard or New	Service Limit
Automatic transmission fluid	Capacity: use genuine Honda ATF-Z1	Fluid change	2.5 L (2.6 US qt)	—
		Overhaul	6.5 L (6.9 US qt)	—
ATF pressure	Line pressure	At 2,000 rpm in N or P	927—985 kPa (9.45—10.05 kgf/cm², 134—143 psi)	877 kPa (8.95 kgf/cm², 127 psi)
	1st clutch pressure	At 2,000 rpm in 1	917—995 kPa (9.35—10.15 kgf/cm², 133—144 psi)	867 kPa (8.85 kgf/cm², 126 psi)
	2nd clutch pressure	At 2,000 rpm in 2	917—995 kPa (9.35—10.15 kgf/cm², 133—144 psi)	867 kPa (8.85 kgf/cm², 126 psi)
	3rd clutch pressure	At 2,000 rpm in 3rd gear in D	917—995 kPa (9.35—10.15 kgf/cm², 133—144 psi)	867 kPa (8.85 kgf/cm², 126 psi)
	4th clutch pressure	At 2,000 rpm in 4th gear in D	917—995 kPa (9.35—10.15 kgf/cm², 133—144 psi)	867 kPa (8.85 kgf/cm², 126 psi)
	5th clutch pressure	At 2,000 rpm in 5th gear in D	917—995 kPa (9.35—10.15 kgf/cm², 133—144 psi)	867 kPa (8.85 kgf/cm², 126 psi)
Torque converter	Stall speed Check with vehicle on level ground		2,100 rpm	—
		Service limit	1,950—2,250 rpm	—
Clutch	Clearance between clutch end-plate and top disc	1st	1.38—1.58 mm (0.054—0.062 in)	—
		2nd	1.14—1.34 mm (0.045—0.053 in)	—
		3rd	1.23—1.43 mm (0.048—0.056 in)	—
		4th, 5th	0.93—1.13 mm (0.037—0.044 in)	—
	Clutch return spring free length	1st, 2nd, 3rd	45.1 mm (1.78 in)	43.1 mm (1.70 in)
		4th, 5th	33.5 mm (1.32 in)	31.5 mm (1.24 in)
	Clutch disc thickness		1.94 mm (0.076 in)	—
	Clutch plate thickness	1st, 3rd	1.6 mm (0.063 in)	When discolored
		2nd, 4th, 5th	2.0 mm (0.079 in)	When discolored
	Clutch wave-plate phase difference	1st <2PLCS>	0.15—0.25 mm (0.006—0.010 in)	0.13 mm (0.005 in)
		2nd, 3rd, 4th, 5th <2PLCS>	0.10—0.20 mm (0.004—0.008 in)	0.08 mm (0.003 in)
	1st clutch end-plate thickness	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
		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
	2nd clutch end-plate thickness	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
		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 10	2.4 mm (0.094 in)	When discolored
		Mark 11	2.5 mm (0.098 in)	When discolored
	3rd, 4th and 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 (0.094 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

Standards and Service Limits

Automatic Transmission and A/T Differential (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
Mainshaft	Diameter at needle bearing contact area	Stator shaft	22.984—23.000 mm (0.9049—0.9055 in)	When worn or damaged
		5th gear	51.975—51.991 mm (2.0463—2.0469 in)	When worn or damaged
		4th gear collar	33.975—33.991 mm (1.3376—1.3382 in)	When worn or damaged
	I.D. of gears	4th gear	40.000—40.016 mm (1.5748—1.5754 in)	When worn or damaged
		5th gear	57.000—57.019 mm (2.2441—2.2448 in)	When worn or damaged
	Axial clearance of gears	4th gear	0.10—0.22 mm (0.004—0.009 in)	—
		5th gear	0.04—0.10 mm (0.002—0.004 in)	—
	41 x 68 mm thrust washer thickness	No. 1	4.450 mm (0.1752 in)	When worn or damaged
		No. 2	4.475 mm (0.1762 in)	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
		No. 8	4.625 mm (0.1821 in)	When worn or damaged
		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 (0.075—0.078 in)	1.86 mm (0.073 in)
	Sealing ring groove width		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)
	Feed pipe bushing I.D.		8.000—8.015 mm (0.3150—0.3156 in)	8.030 mm (0.3161 in)

Automatic Transmission and A/T Differential (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
Countershaft	Diameter at needle bearing contact area	Torque converter housing bearing	36.005—36.015 mm (1.4175—1.4179 in)	When worn or damaged
		4th gear	34.982—34.998 mm (1.3772—1.3779 in)	When worn or damaged
		Reverse gear	39.979—40.000 mm (1.5740—1.5748 in)	When worn or damaged
	I.D. of gears	4th gear	41.000—41.016 mm (1.6142—1.6148 in)	When worn or damaged
		Reverse gear	46.000—46.016 mm (1.8110—1.8116 in)	When worn or damaged
	Axial clearance of gears	4th gear	0.04—0.12 mm (0.002—0.005 in)	—
		5th gear	0—0.48 mm (0—0.019 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 length		54.25—54.30 mm (2.136—2.138 in)	—
	Reverse selector hub width		25.45—25.65 mm (1.002—1.010 in)	—
	Reverse selector hub O.D.		55.87—55.90 mm (2.200—2.201 in)	When worn or damaged

Automatic Transmission and A/T Differential (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
Secondary shaft	Diameter at needle bearing contact area	1st gear	39.986–39.999 mm (1.5742–1.5748 in)	When worn or damaged
		2nd gear	39.986–39.999 mm (1.5742–1.5748 in)	When worn or damaged
		3rd gear collar	36.975–36.991 mm (1.4557–1.4563 in)	When worn or damaged
	I.D. of gears	1st gear	47.000–47.016 mm (1.8504–1.8510 in)	When worn or damaged
		2nd gear	46.000–46.016 mm (1.8110–1.8116 in)	When worn or damaged
		3rd gear	43.000–43.016 mm (1.6929–1.6935 in)	When worn or damaged
	Axial clearance of gears	1st gear	0.04–0.12 mm (0.002–0.005 in)	–
		2nd gear	0.04–0.12 mm (0.002–0.005 in)	–
		3rd gear	0.10–0.22 mm (0.004–0.009 in)	–
	37 x 58 mm thrust washer thickness	No. 1	3.900 mm (0.154 in)	When worn or damaged
		No. 2	3.925 mm (0.155 in)	When worn or damaged
		No. 3	3.950 mm (0.156 in)	When worn or damaged
		No. 4	3.975 mm (0.156 in)	When worn or damaged
		No. 5	4.000 mm (0.157 in)	When worn or damaged
		No. 6	4.025 mm (0.158 in)	When worn or damaged
		No. 7	4.050 mm (0.159 in)	When worn or damaged
		No. 8	4.075 mm (0.160 in)	When worn or damaged
		No. 9	4.100 mm (0.161 in)	When worn or damaged
		No. 10	4.125 mm (0.162 in)	When worn or damaged
		No. 11	4.150 mm (0.163 in)	When worn or damaged
		No. 12	4.175 mm (0.164 in)	When worn or damaged
		No. 13	4.200 mm (0.165 in)	When worn or damaged
		No. 14	4.225 mm (0.166 in)	When worn or damaged
		No. 15	4.250 mm (0.167 in)	When worn or damaged
		No. 16	4.275 mm (0.168 in)	When worn or damaged
		No. 17	4.300 mm (0.169 in)	When worn or damaged
		No. 18	4.325 mm (0.170 in)	When worn or damaged
		No. 19	4.350 mm (0.171 in)	When worn or damaged
		No. 20	4.375 mm (0.172 in)	When worn or damaged

Automatic Transmission and A/T Differential (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
Secondary shaft (cont'd)	40 x 51.5 mm thrust washer thickness	No. 1	4.80 mm (0.189 in)	When worn or damaged
		No. 2	4.85 mm (0.191 in)	When worn or damaged
		No. 3	4.90 mm (0.193 in)	When worn or damaged
		No. 4	4.95 mm (0.195 in)	When worn or damaged
		No. 5	5.00 mm (0.197 in)	When worn or damaged
		No. 6	5.05 mm (0.199 in)	When worn or damaged
	3rd gear collar length		43.9–44.0 mm (1.728–1.732 in)	—
	Length of 3rd gear collar flange from end		5.25–5.40 mm (0.207–0.213 in)	When worn or damaged
	Sealing ring thickness		1.91–1.97 mm (0.0752–0.0776 in)	1.86 mm (0.0732 in)
	Sealing ring groove width		2.025–2.060 mm (0.0797–0.0811 in)	2.080 mm (0.0819 in)
	Clutch feed pipe O.D.	1st	6.97–6.98 mm (0.2744–0.2748 in)	6.95 mm (0.2736 in)
		3rd	11.47–11.48 mm (0.4528–0.4535 in)	11.45 mm (0.4508 in)
	Feed pipe bushing I.D.	1st clutch	7.018–7.030 mm (0.2763–0.2768 in)	7.045 mm (0.2774 in)
		3rd clutch	11.500–11.518 mm (0.4528–0.4535 in)	11.530 mm (0.4539 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)
Idler gear shaft	Diameter at needle bearing contact area	End cover side	32.003–32.013 mm (1.2600–1.2604 in)	When worn or damaged
	Thickness of cotters		1.39–1.42 mm (0.055–0.056 in)	—
Reverse idler gear	Reverse idler gear shaft diameter at needle bearing contact area		14.99–15.00 mm (0.590–0.591 in)	When worn or damaged
	I.D.		20.007–20.020 mm (0.7877–0.7882 in)	When worn or damaged
	I.D. of transmission housing of gear shaft contact area		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	ATF pump thrust clearance		0.03–0.06 mm (0.001–0.002 in)	0.07 mm (0.003 in)
	Clearance between ATF pump gear and main valve body	Drive gear	0.210–0.265 mm (0.0083–0.0104 in)	—
		Driven gear	0.070–0.125 mm (0.0028–0.0049 in)	—
	ATF pump driven gear I.D.		14.016–14.034 mm (0.5518–0.5525 in)	When worn or damaged
	ATF pump driven gear shaft O.D.		13.980–13.990 mm (0.5504–0.5508 in)	When worn or damaged
Stator shaft	I.D. at needle bearing contact area	Torque converter side	27.000–27.021 mm (1.0630–1.0638 in)	When worn or damaged
		ATF pump side	29.000–29.021 mm (1.1417–1.1426 in)	—
	I.D. at mainshaft sealing ring contact area		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	
Servo body	Shift fork shaft bore I.D.		14.000–14.010 mm (0.5512–0.5516 in)	—
	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	Mainshaft 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 (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
Main valve body spring (see page 14-277)	Shift valve A spring	Wire diameter	0.8 mm (0.031 in)	—
		O.D.	5.6 mm (0.220 in)	—
		Free length	28.1 mm (1.106 in)	—
		No. of coil	15.9	
	Shift valve B spring	Wire diameter	0.8 mm (0.031 in)	—
		O.D.	5.6 mm (0.220 in)	—
		Free length	28.1 mm (1.106 in)	—
		No. of coil	15.9	
	Shift valve C spring	Wire diameter	0.8 mm (0.031 in)	—
		O.D.	5.6 mm (0.220 in)	—
		Free length	28.1 mm (1.106 in)	—
		No. of coil	15.9	
	Shift valve E spring	Wire diameter	0.8 mm (0.031 in)	—
		O.D.	5.6 mm (0.220 in)	—
		Free length	28.1 mm (1.106 in)	—
		No. of coil	15.9	
	Relief valve spring	Wire diameter	1.0 mm (0.039 in)	—
		O.D.	9.6 mm (0.378 in)	—
		Free length	34.1 mm (1.343 in)	—
		No. of coil	10.2	
	Lock-up control valve spring	Wire diameter	0.65 mm (0.026 in)	—
		O.D.	7.1 mm (0.280 in)	—
		Free length	23.1 mm (0.909 in)	—
		No. of coil	12.7	
	Cooler check valve spring	Wire diameter	0.85 mm (0.033 in)	—
		O.D.	6.6 mm (0.260 in)	—
		Free length	27.0 mm (1.063 in)	—
		No. of coil	11.3	
	Servo control valve spring	Wire diameter	0.7 mm (0.028 in)	—
		O.D.	6.6 mm (0.260 in)	—
		Free length	35.7 mm (1.406 in)	—
		No. of coil	17.2	

Automatic Transmission and A/T Differential (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
Regulator valve body spring (see page 14-279)	1st accumulator spring A	Wire diameter	2.4 mm (0.094 in)	–
		O.D.	18.6 mm (0.732 in)	–
		Free length	49.0 mm (1.929 in)	–
		No. of coil	7.1	
	1st accumulator spring B	Wire diameter	2.3 mm (0.091 in)	–
		O.D.	12.2 mm (0.480 in)	–
		Free length	31.5 mm (1.240 in)	–
		No. of coil	6.6	
	3rd accumulator spring	Wire diameter	2.5 mm (0.098 in)	–
		O.D.	14.6 mm (0.575 in)	–
		Free length	29.4 mm (1.157 in)	–
		No. of coil	4.9	
	Regulator valve spring A	Wire diameter	1.85 mm (0.073 in)	–
		O.D.	14.7 mm (0.579 in)	–
		Free length	83.0 mm (3.268 in)	–
		No. of coil	14.9	
	Regulator valve spring B	Wire diameter	1.6 mm (0.063 in)	–
		O.D.	9.2 mm (0.362 in)	–
		Free length	44.0 mm (1.732 in)	–
		No. of coil	12.5	
	Stator reaction spring	Wire diameter	4.5 mm (0.177 in)	–
		O.D.	35.4 mm (1.394 in)	–
		Free length	30.3 mm (1.193 in)	–
		No. of coil	1.92	
	Lock-up shift valve spring	Wire diameter	1.0 mm (0.039 in)	–
		O.D.	6.6 mm (0.260 in)	–
		Free length	35.5 mm (1.398 in)	–
		No. of coil	18.2	
	Torque converter check valve spring	Wire diameter	1.2 mm (0.047 in)	–
		O.D.	8.6 mm (0.339 in)	–
		Free length	33.8 mm (1.331 in)	–
		No. of coil	12.2	
Servo body spring (see page 14-280)	2nd accumulator spring A	Wire diameter	2.1 mm (0.083 in)	–
		O.D.	16.6 mm (0.654 in)	–
		Free length	48.7 mm (1.917 in)	–
		No. of coil	8.4	
	2nd accumulator spring B	Wire diameter	2.1 mm (0.083 in)	–
		O.D.	10.8 mm (0.425 in)	–
		Free length	34.0 mm (1.339 in)	–
		No. of coil	8.2	
	4th accumulator spring A	Wire diameter	2.4 mm (0.094 in)	–
		O.D.	18.6 mm (0.732 in)	–
		Free length	49.0 mm (1.929 in)	–
		No. of coil	7.1	
	4th accumulator spring B	Wire diameter	2.3 mm (0.091 in)	–
		O.D.	12.2 mm (0.480 in)	–
		Free length	31.5 mm (1.240 in)	–
		No. of coil	6.6	
	5th accumulator spring	Wire diameter	2.5 mm (0.098 in)	–
		O.D.	14.6 mm (0.575 in)	–
		Free length	29.9 mm (1.177 in)	–
		No. of coil	4.9	
	Shift valve D spring	Wire diameter	0.8 mm (0.031 in)	–
		O.D.	5.6 mm (0.220 in)	–
		Free length	28.1 mm (1.106 in)	–
		No. of coil	15.9	

Standards and Service Limits

Automatic Transmission and A/T Differential (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
A/T differential carrier	Pinion shaft contact area I.D.		18.000–18.025 mm (0.7087–0.7096 in)	–
	Driveshaft contact area I.D.		28.021–28.051 mm (1.1032–1.1044 in)	–
	Clearance between carrier and pinion shaft		0.013–0.054 mm (0.0005–0.0021 in)	0.1 mm (0.004 in)
	Clearance between carrier and driveshaft		0.071–0.117 mm (0.0028–0.0046 in)	0.12 mm (0.005 in)
	Tapered roller bearing starting torque (preload)	For new bearing	2.7–3.9 N·m (0.28–0.40 kgf·m, 2.0–2.9 lbf·ft)	Adjust
		For reused bearing	2.5–3.6 N·m (0.25–0.37 kgf·m, 1.8–2.7 lbf·ft)	Adjust
	Final driven gear backlash		0.086–0.142 mm (0.0034–0.0056 in)	0.2 mm (0.008 in)
A/T differential pinion gear	Backlash		0.05–0.15 mm (0.002–0.006 in)	–
	I.D.		18.042–18.066 mm (0.7103–0.7113 in)	–
	Clearance between pinion gear and pinion shaft		0.055–0.095 mm (0.0022–0.0037 in)	0.12 mm (0.005 in)

Steering

Item	Measurement	Qualification	Standard or New	Service Limit
Steering wheel	Rotational play measured at outside edge		0–10 mm (0–0.39 in)	–
	Initial turning load measured at outside edge with engine running		29 N (3.0 kgf, 6.6 lbf)	–
Gearbox	Angle of rack guide screw loosened from locked position		15±5 °	
Pump	Output pressure with shut-off valve closed		8,140–8,830 kPa (83–90 kgf/cm², 1,180–1,280 psi)	–
Power steering fluid	Capacity: use Honda power steering fluid	System capacity	1.05 L (1.11 US qt)	–
		Reservoir capacity	0.32 L (0.34 US qt)	–

Suspension

Item	Measurement	Qualification	Standard or New	Service Limit
Wheel alignment	Camber	Front	0 ° 00 ′ $^{+30}_{-45}$ ′	
		Rear	−1 °00 ′ $^{+30}_{-45}$ ′	
	Caster	Front (4-door)	3 ° 48 ′ $^{+0\,°\,25}_{-1\,°\,05}$ ′	
		Front (2-door)	3 ° 47 ′ $^{+0\,°\,25}_{-1\,°\,05}$ ′	
	Total toe-in	Front	0±2 mm (0±0.08 in)	
		Rear	2±2 mm (0.08±0.08 in)	
	Front wheel turning angle	Inward	39 ° 00 ′ ±2 °	
		Outward (reference)	31 ° 50 ′	
Wheel	Aluminum wheel runout	Axial	0–0.7 mm (0–0.03 in)	2.0 mm (0.08 in)
		Radial	0–0.7 mm (0–0.03 in)	1.5 mm (0.06 in)
	Steel wheel runout	Axial	0–1.0 mm (0–0.04 in)	2.0 mm (0.08 in)
		Radial	0–1.0 mm (0–0.04 in)	1.5 mm (0.06 in)
Wheel bearing	End play	Front	0–0.05 mm (0–0.002 in)	–
		Rear	0–0.05 mm (0–0.002 in)	–

Brakes

Item	Measurement	Qualification	Standard or New	Service Limit
Parking brake	Number of clicks when lever pulled with 196 N (20 kgf, 44 lbf) of force		7 to 9 clicks	
Brake pedal	Pedal height (carpet moved aside)	M/T	156 mm (6.1 in)	–
		A/T	155 mm (6.1 in)	–
	Free play		1–5 mm (0.04–0.20 in)	–
Brake disc	Thickness	Front (NISSIN)	27.9–28.1 mm (1.10–1.11 in)	26.0 mm (1.02 in)
		Front (AKEBONO)	22.9–23.1 mm (0.90–0.91 in)	21.0 mm (0.83 in)
		Rear	8.9–9.1 mm (0.35–0.36 in)	8.0 mm (0.31 in)
	Runout		–	0.04 mm (0.0016 in)
	Parallelism		–	0.015 mm (0.0006 in)
Brake pad	Thickness	Front (NISSIN)	10.5–11.2 mm (0.41–0.44 in)	1.6 mm (0.06 in)
		Front (AKEBONO)	10.5–10.8 mm (0.41–0.43 in)	1.6 mm (0.06 in)
		Rear	8.3–9.0 mm (0.33–0.35 in)	1.0 mm (0.04 in)

Air Conditioning

Item	Measurement	Qualification	Standard or New	Service Limit
Refrigerant	Type		HFC-134a (R-134a)	
	Capacity of system		400–450 g (14.1–15.9 oz)	–
Refrigerant oil	Type		DENSO ND-OIL 8 (P/N 38897-PR7-A01AH or 38999-PR7-A01)	
	Capacity of components	Condenser	35 mL (1 1/5 fl·oz)	
		Evaporator	35 mL (1 1/5 fl·oz)	
		Each line and hose	10 mL (1/3 fl·oz)	
		Receiver/Dryer	10 mL (1/3 fl·oz)	
		Compressor	70–82 mL (2 3/8–2 7/9 fl·oz)	
Compressor	Field coil resistance	At 68 °F (20 °C)	3.9–4.3 Ω	
	Pulley-to-armature plate clearance		0.35–0.60 mm (0.014–0.024 in)	–

Design Specifications

Item	Measurement	Qualification	Specification
DIMENSIONS (4-door)	Overall length		4,930 mm (194.1 in)
	Overall width		1,847 mm (72.7 in)
	Overall height		1,475 mm (58.1 in)
	Wheelbase		2,800 mm (110.2 in)
	Track	Front (16 inch wheels)	1,580 mm (62.2 in)
		Front (17 inch wheels)	1,590 mm (62.6 in)
		Rear (16 inch wheels)	1,580 mm (62.2 in)
		Rear (17 inch wheels)	1,590 mm (62.6 in)
	Seating capacity		Five (5)
DIMENSIONS (2-door)	Overall length		4,849 mm (190.9 in)
	Overall width		1,848 mm (72.7 in)
	Overall height		1,432 mm (56.3 in)
	Wheelbase		2,740 mm (107.9 in)
	Track	Front	1,580 mm (62.2 in)
		Rear	1,580 mm (62.2 in)
	Seating capacity		Five (5)
WEIGHT (4-door)	Gross Vehicle Weight Rating (GVWR) USA models	LX, LX-P, LX PZEV, LX-P PZEV	1,950 kg (4,299 lbs)
		EX, EX-L, EX PZEV, EX-L PZEV	2,010 kg (4,431 lbs)
	Gross Vehicle Weight Rating (GVWR) Canada models	LX, LX-P	1,970 kg (4,343 lbs)
		EX, EX-L	2,030 kg (4,475 lbs)
WEIGHT (2-door)	Gross Vehicle Weight Rating (GVWR) USA models	LX, LX-S, LX PZEV	1,950 kg (4,299 lbs)
		EX, EX-L, EX PZEV, EX-L PZEV	2,000 kg (4,409 lbs)
	Gross Vehicle Weight Rating (GVWR) Canada models	LX	1,970 kg (4,343 lbs)
		EX, EX-L	2,020 kg (4,453 lbs)
ENGINE	Type		Water cooled, 4-stroke DOHC i-VTEC gasoline engine
	Cylinder arrangement		Inline 4-cylinder, transverse
	Bore and stroke		87 x 99 mm (3.43 x 3.90 in)
	Displacement		2,354 cm^3 (144 cu in)
	Compression ratio		10.5
	Valve train		Chain drive, DOHC i-VTEC 4 valves per cylinder
	Lubrication system		Forced, wet sump, with trochoid pump
	Fuel required		Regular UNLEADED gasoline with 87 Pump Octane Number or higher
STARTER	Type		Gear reduction
	Nominal output		1.6 kW
	Nominal voltage		12 V
	Hour rating		30 seconds
	Rotation of direction		Clockwise as viewed from drive end

Item	Measurement	Qualification		Specification
CLUTCH	Type			Single plate dry, diaphragm spring
MANUAL TRANSMISSION	Type			Synchronized, five-speed forward, one reverse
	Primary reduction			Direct 1:1
	Gear ratio	1st		3.267
		2nd		1.778
		3rd		1.154
		4th		0.870
		5th		0.647
		Reverse		3.583
	Final reduction	Type		Single helical gear
		Gear ratio		4.389
AUTOMATIC TRANSMISSION	Type			Electronically-controlled automatic, five-speed forward, one reverse, three-element torque converter with lock-up clutch
	Primary reduction			Direct 1:1
	Gear ratio	1st		2.651
		2nd	K24Z2	1.516
			K24Z3	1.613
		3rd	K24Z2	1.037
			K24Z3	1.081
		4th	K24Z2	0.738
			K24Z3	0.772
		5th		0.566
		Reverse		2.000
	Final reduction	Type		Single helical gear
		Gear ratio		4.437
STEERING	Type			Hydraulic power-assisted rack and pinion
	Overall ratio			13.1
	Turns, lock-to-lock			2.56
	Steering wheel diameter			370 mm (14.6 in)
SUSPENSION	Type	Front		Independent double wishbone with stabilizer, coil spring
		Rear		Independent multilink with stabilizer, coil spring
	Shock absorber	Front		Telescopic, hydraulic, nitrogen gas-filled
		Rear		Telescopic, hydraulic, nitrogen gas-filled
TIRES	Size (4-door)	Front and rear (LX, LX-P, LX PZEV, LX-P PZEV)		P215/60R16 94H
		Front and rear (EX, EX-L, EX PZEV, EX-L PZEV)		P225/50R17 93V
		Spare		T135/80D16 101M
	Size (2-door)	Front and rear		P225/50R17 93V
		Spare		T135/80D16 101M
WHEEL ALIGNMENT	Camber	Front		0 ° 00 ′
		Rear		−1 ° 00 ′
	Caster	Front (4-door)		3 ° 48 ′
		Front (2-door)		3 ° 47 ′
	Total toe-in	Front		0 mm (0 in)
		Rear		2 mm (0.08 in)
	Front wheel turning angle	Inward		39 ° 00 ′
		Outward (reference)		31 ° 50 ′

Design Specifications

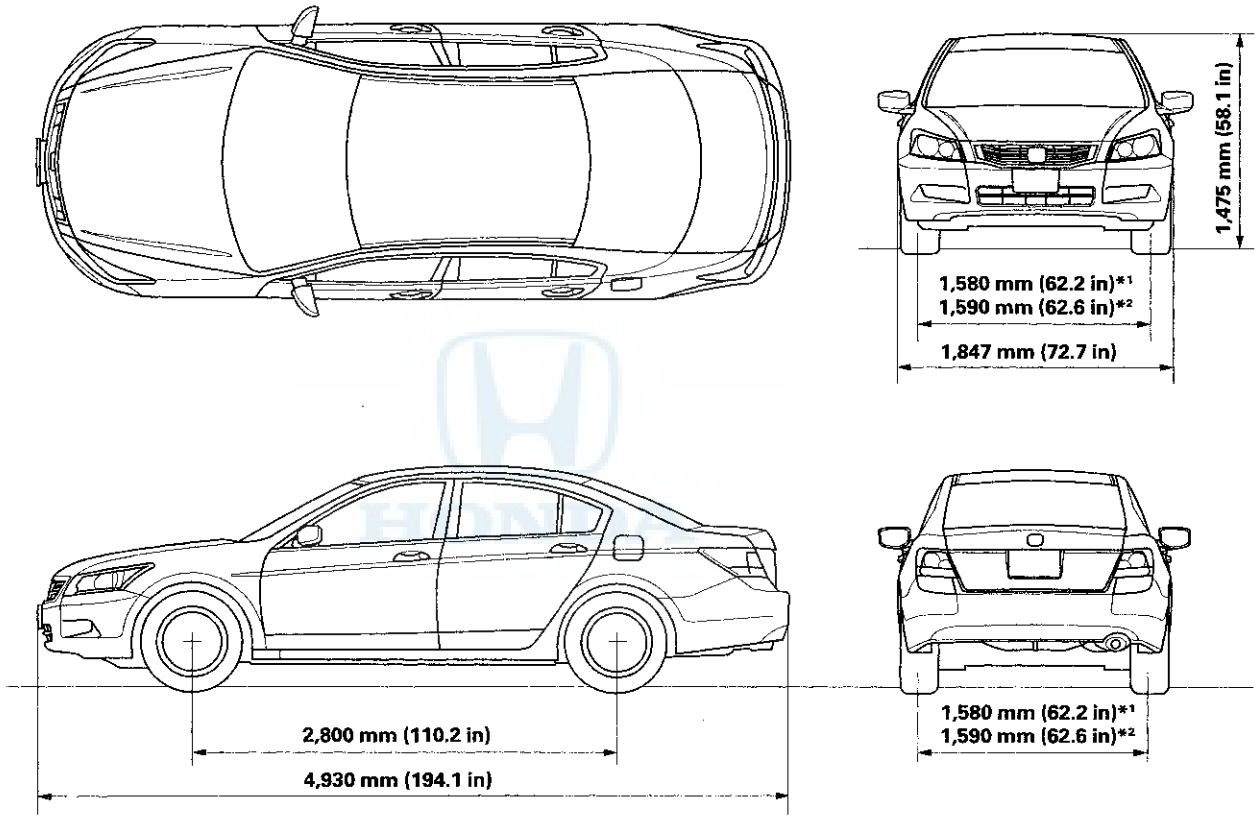
Item	Measurement	Qualification	Specification
BRAKES	Type of service brake	Front	Power-assisted self-adjusting ventilated disc
		Rear	Power-assisted self-adjusting solid disc
	Type of parking brake		Mechanical actuating, rear wheels
	Pad friction surface area (swept area)	Front: (NISSIN)	50.6 cm^2 (7.84 sq in) x 2
		Front: (AKEBONO)	45.7 cm^2 (7.08 sq in) x 2
		Rear	27.3 cm^2 (4.23 sq in) x 2
AIR CONDITIONING	Compressor	Type	Swash plate/DENSO
		Capacity	154.4 mL (9.42 cu in)/rev
		Maximum speed	8,400 rpm
		Lubricant capacity	70 mL (2 3/8 fl·oz)
		Lubricant type	DENSO ND-OIL 8
	Condenser	Type	Corrugated fin
	Evaporator	Type	Corrugated fin
	Blower	Type	Stabilized swirling flow
		Motor type	216 W/12 V
		Speed control	Infinitely variable
		Maximum capacity	505 m^3 (17,834 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)	35 W maximum at 12 V
	Refrigerant	Type	HFC-134a (R-134a)
		Capacity	400—450 g (14.1—15.9 oz)

Item	Measurement	Qualification	Specification
ELECTRICAL RATINGS	Battery	USA 4-door models except PZEV	12 V—45 Ah/20 HR (12 V—36 Ah/5 HR), 12 V—47 Ah/20 HR (12 V—36 Ah/5 HR), 12 V—45 Ah/20 HR (12 V—38 Ah/5 HR)
		USA 2-door models, '08 Canada models	12 V—47 Ah/20 HR (12 V—38 Ah/5 HR)
		USA models PZEV, '09-10 Canada models	12 V—65 Ah/20 HR (12 V—52 Ah/5 HR)
	Fuse	Under-hood fuse/relay box	100 A, 60 A, 50 A, 40 A, 30 A, 20 A, 15 A, 7.5 A
		Driver's under-dash fuse/relay box	20 A, 15 A, 10 A, 7.5 A
		Passenger's under-dash fuse/relay box	20 A, 15 A, 10 A, 7.5 A
	Light bulbs	Headlight high beam	12 V—60 W
		Headlight low beam (4-door)	12 V—51 W
		Headlight low beam (2-door)	12 V—55 W
		Front turn signal/parking lights (4-door)	12 V—21/5 W
		Front turn signal/parking lights (2-door)	12 V—24/2.2 CP
		Front side marker lights (4-door)	12 V—3 CP
		Front side marker lights (2-door)	12 V—5 W
		Rear turn signal lights	12 V—21 W
		Brake/taillights	12 V—21/5 W
		High mount brake light	12 V—21 W
		Back-up lights	12 V—21 W
		License plate lights	12 V—5 W
		Ceiling light	12 V—8 W
		Trunk light	12 V—5 W
		Front map light	12 V—8 W
		Ambient light	LED
		Vanity mirror lights	12 V—1.1 W
		Glove box light	12 V—2 CP
		Door courtesy light	12 V—2 CP
		Gauge lights	LED
		Indicator lights	LED
	Washer reservoir	Capacity (USA models)	2.5 L (2.64 US qt)
		Capacity (Canada models)	4.5 L (4.75 US qt)

Design Specifications

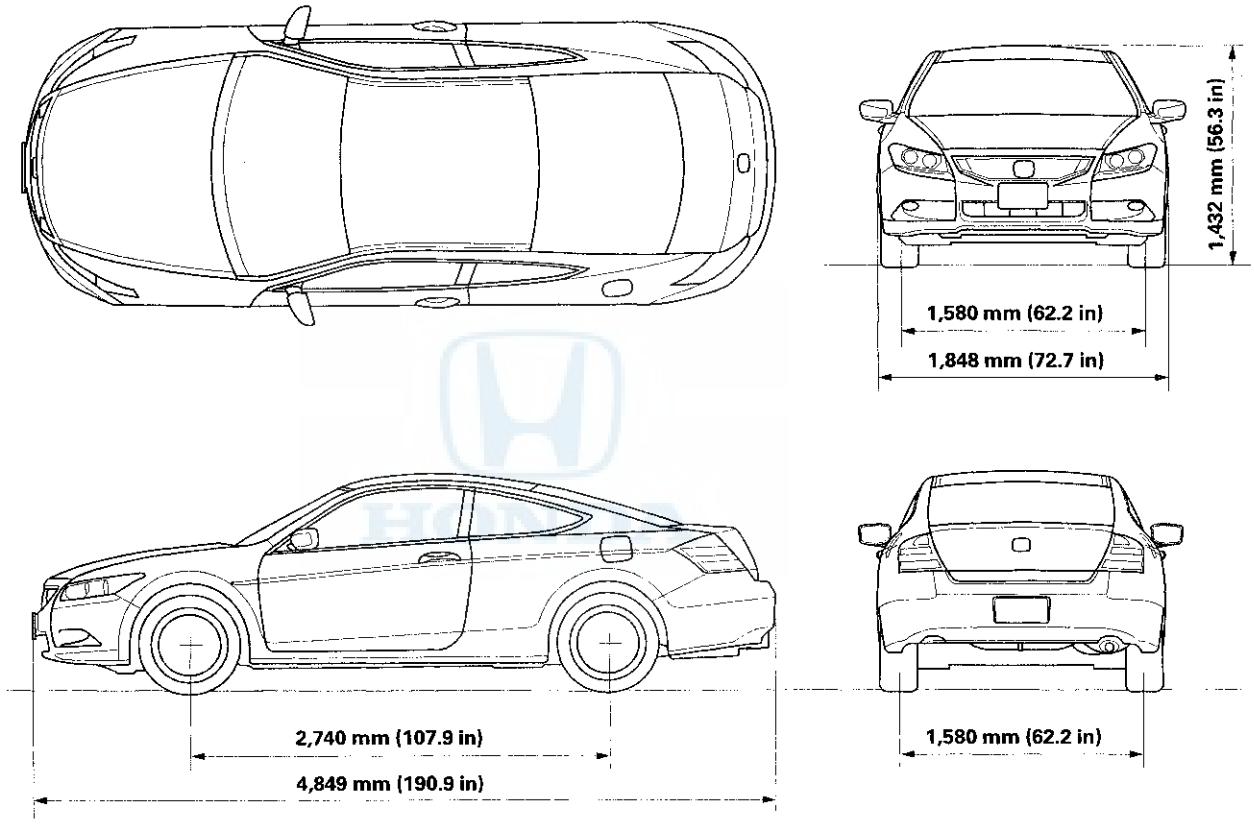
Body Specifications

4-door Model:



*1: 16 inch wheels
*2: 17 inch wheels

2-door Model: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4,849 mm (190.9 in)
1,580 mm (62.2 in)

HONDA