

Standards and Service Limits

5. Engine/Cylinder Head, Valve Train

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Compression	250 min ⁻¹ (rpm) and wide-open throttle	Nominal Minimum Maximum variation	1226 kPa (12.5 kg/cm ² , 178 psi) 931 kPa (9.5 kg/cm ² , 135 psi) 196 kPa (2 kg/cm ² , 28 psi)
Cylinder head	Warpage Height	99.95-100.05 (3.935-3.938)	0.05 (0.002)
Camshaft	End play	0.05-0.15 (0.002-0.006)	0.50 (0.020)
	Oil clearance	0.05-0.089 (0.002-0.0035)	0.150 (0.006)
	Runout	0.015 (0.0006)	0.030 (0.001)
	Cam lobe height	IN 38.526 (1.5167) EX 38.972 (1.5343)	—
Valve	Valve clearance	IN 0.24-0.28 (0.0094-0.0110) EX 0.28-0.32 (0.0110-0.1259)	—
	Valve stem O.D.	IN 5.480-5.490 (0.2157-0.2161) EX 5.450-5.460 (0.2145-0.2149)	5.450 (0.2145) 5.420 (0.2133)
	Stem-to-guide clearance	IN 0.025-0.050 (0.0009-0.0019) EX 0.055-0.080 (0.0021-0.0031)	0.08 (0.0031) 0.12 (0.0047)
		Valve seat	Width Valve stem installed height
Valve spring	Free length	IN and EX 1.25-1.55 (0.049-0.061)	—
		IN (NH) 53.15 (2.0925)	—
		(CH) 53.16 (2.0929)	—
		EX (NH) 55.78 (2.196)	—
(CH) 55.80 (2.1968)	—		
Valve guide	I.D. Valve guide installed height	IN and EX 5.515-5.530 (0.2171-0.2177)	5.53 (0.2177)
		IN 23.75-24.25 (0.9148-0.9547) EX 15.05-15.55 (0.5925-0.6122)	—
Rocker arm	Arm-to-shaft clearance	IN 0.017-0.050 (0.0007-0.0020)	0.080 (0.0031)
		EX 0.018-0.054 (0.0007-0.0021)	0.080 (0.0031)

NH: NIHON HATSUJO
CH: CHUO HATSUJO

5. Engine/Engine Block

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Cylinder block	Warpage of deck surface	0.07 (0.003) max.	0.10 (0.004)
	Bore diameter	85.00-85.02 (3.3464-3.3472)	85.07 (3.3492)
	Bore taper	—	0.05 (0.002)
	Reboring limit	—	0.5 (0.02)
Piston	Skirt O.D. (At 21 mm (0.83 in) from bottom of skirt)	A 84.98-84.99 (3.3456-3.4605)	84.97 (3.3452)
		B 84.97-84.98 (3.3452-3.3456)	84.96 (3.3448)
Piston ring	Piston-to-ring clearance	Top 0.035-0.060 (0.0014-0.0024)	0.130 (0.0051)
		Second 0.030-0.055 (0.0011-0.0022)	0.130 (0.0051)
	Ring end gap	Top 0.20-0.35 (0.0079-0.0138)	0.60 (0.0236)
		Second 0.40-0.55 (0.0157-0.0217)	0.70 (0.0276)
Connecting rod	Pin-to rod interference	Oil 0.20-0.70 (0.0079-0.0276)	0.80 (0.0315)
		Small end bore diameter	0.013-0.032 (0.0005-0.0013)
		Large end bore diameter	21.968-21.981 (0.8649-0.8654)
		End play installed on crankshaft	Nominal 51 (2.008) 0.15-0.30 (0.006-0.012)
Crankshaft	Main journal diameter	No. 1, 2 Journals 49.976-50.000 (1.9676-1.9685)	—
		No. 3 Journal 49.972-49.996 (1.9674-1.9683)	—
		No. 4, 5 Journals 49.984-50.006 (1.9679-1.9688)	—
	Taper/out-of-round, main journal	0.005 (0.0002) max.	0.010 (0.0004)
	Rod journal diameter	47.976-48.000 (1.8888-1.8898)	—
	Taper/out-of-round, rod journal	0.005 (0.0002) max.	0.010 (0.0004)
Bearings	Main bearing-to journal oil clearance	No. 1, 2 Journals 0.021-0.045 (0.0009-0.0018)	0.05 (0.002)
		No. 3 Journal 0.025-0.049 (0.0001-0.0019)	0.054 (0.0021)
	Rod bearing-to journal oil clearance	No. 4, 5 Journals 0.013-0.037 (0.0005-0.0015)	0.05 (0.002)
		0.021-0.049 (0.0008-0.0019)	0.05 (0.002)

5. Engine/Engine Block (cont'd)

		MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Balancer Shaft	Journal diameter	No. 1 journal (Front)	(Rear)	42.722–42.734 (1.6820–1.6824)	—
		No. 2 journal		20.938–20.950 (0.8243–0.8248)	—
		No. 3 journal		38.712–38.724 (1.5241–1.5246)	—
	Journal taper			34.722–34.734 (1.3670–1.3674)	—
				0.005 (0.0002)	—
	End play			0.100–0.350 (0.0040–0.0138)	—
				0.060–0.180 (0.0024–0.0070)	—
Runout Oil Clearance			0.020 (0.0008)	—	
	No. 1 journal (Rear)		0.050–0.075 (0.0020–0.0030)	—	
	No. 1(Front), 3 journal		0.066–0.118 (0.0026–0.0046)	—	
	No. 2, journal		0.076–0.128 (0.0030–0.0050)	—	
Balancer Shaft Bearing	I.D	No. 1 journal (Front)	(Rear)	42.800–42.820 (1.6850–1.6858)	—
		No. 2 journal		21.000–21.013 (0.8268–0.8273)	—
		No. 3 journal		38.800–38.820 (1.5276–1.5283)	—
		No. 3 journal		34.800–34.820 (1.3701–1.3710)	—

5. Engine/Engine Lubrication

		MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Engine oil	Capacity (US. qt., Imp. qt.)		4.9 (5.2, 4.3) After engine disassembly 3.8 (4.0, 3.3) After oil change, including oil filter 3.5 (3.7, 3.1) After oil change, without oil filter		
Oil pump	Displacement		43.9 ℓ (11.6 US. gal., 9.7 Imp. gal.)/6,000 min ⁻¹ (rpm)		
	Inner-to-outer rotor radial clearance		0.02–0.16 (0.0008–0.0063)		0.2 (0.008)
	Pump body-to-rotor radial clearance		0.10–0.19 (0.0040–0.0075)		0.21 (0.0083)
	Pump body-to-rotor side clearance		0.02–0.07 (0.001–0.003)		0.12 (0.005)
Relief valve	Pressure setting 80°C (176°F)	Idle	69 kPa (0.7 kg/cm ² , 10 psi) min.		
		3,000 min ⁻¹ (rpm)	3431 kPa (3.5 kg/cm ² , 50 psi)		

5. Engine/Cooling

		MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Thermostat	Starts to open Full open Valve lift at full open		78°C ± 2 (172°F ± 3) 90°C (194°F) 8 (0.31) max.		86–90°C (187–194°F)
Water pump	Displacement		160 ℓ (42.2 US gal, 35.2 Imp gal)/6,000 min ⁻¹ (rpm)		
Radiator	Capacity (incl. heater) ℓ (US. qt., Imp. qt) (Includes reservoir tank 0.6 (0.63, 0.53) after overhaul at change pressure cap opening pressure		MT: 6.6 (6.97, 5.81) AT: 7.1 (7.50, 6.23) MT: 3.0 (3.17, 2.64) AT: 3.5 (3.70, 3.08) 93–123 kpa (0.95–1.25 kg/cm ² , 13.5–17.8 psi)		
Cooling fan	"ON" temperature "OFF" temperature "ON" temperature (Fan timer) "OF" temperature (Fan timer)		87°–93°C (189°–199°F) 80°–91°C (176°–196°F) 105°–111°C (221°–231°F) 98°–109°C (208°–228°F)		

Standards and Service Limits

6. Fuel and Emissions

MEASUREMENT		STANDARD (NEW)	
Fuel Pump (PGM-FI)	Delivery pressure	240–279 Pa (2.45–2.85 kg/cm ² , 35–41 lb-ft)	
	Displacement (minimum in 10 seconds)	230 cc (7.8 US oz., 8.1 Imp oz.)	
	Relief valve opening pressure	441–588 kPa (4.5–6.0 kg/cm ² , 64–85 psi)	
Fuel Pump (CARB)	Delivery pressure	9–14 kPa (0.09–0.14 kg/cm ² , 1.3–2.0 psi)	
	Displacement (minimum in minute at 12V)	760 cc (25.7 US oz., 26.8 Imp oz.)	
Pressure Regulator (PGM-FI)	Pressure with regulator vacuum hose disconnected	240–279 kPa (2.45–2.85 kg/cm ² , 35–41 psi)	
Fuel Tank	Capacity	65 ℓ (17.2 US gal., 14.3 Imp gal.)	
Engine	Fast idle	1,400 ± 200 min ⁻¹ (rpm)	
	Idle speed (with headlights and cooling fan OFF)	MT	770 ± 50 min ⁻¹ (rpm)
		AT	770 ± 50 min ⁻¹ (rpm) in \overline{P} or \overline{N} positions
	Idle CO	0.1% maximum	

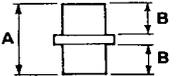
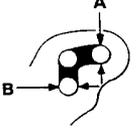
7. Clutch

MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Clutch pedal	Pedal height	210 (8.3) to floor	—
	Stroke	142.0 (5.6)	—
	Pedal play	9–15 (0.4–0.6)	—
	Disengagement height	90 (3.5) min. to floor 80 (3.1) min. to carpet	—
Flywheel	Clutch surface runout	0.05 (0.002) max.	0.15 (0.006)
Clutch disc	Rivet head depth	1.3 (0.05) min.	0.2 (0.008)
	Surface runout	0.8 (0.03) max.	1.0 (0.04)
	Thickness	8.5–9.2 (0.33–0.36)	6.1 (0.24)
Clutch cover	Unevenness of diaphragm spring	0.6 (0.02) max.	0.8 (0.03)

8. Manual Transmission

MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Transmission oil	Capacity ℓ (U.S. qt., Imp. qt.)	1.9 (2.0, 1.7) at assembly 2.0 (2.1, 1.8) at oil change	
Mainshaft	End play	0.10–0.16 (0.0039–0.0063)	Adjust with a shim. 29.93 (1.1783)
	Diameter of ball bearing contact area	27.977–27.990 (1.1015–1.1020)	37.930 (1.4933)
	Diameter of third gear contact area	37.984–38.000 (1.4954–1.4961)	27.940 (1.1000)
	Diameter of ball bearing contact area	27.987–28.000 (1.1018–1.1024)	0.05 (0.002)
Mainshaft third and fourth gears	Runout	0.02 (0.008) max.	
	I.D.	43.009–43.025 (1.6933–1.6939)	43.080 (1.6961)
	End play	0.06–0.21 (0.0024–0.0083)	0.30 (0.012)
	Thickness 3rd gear	32.42–32.47 (1.276–1.278)	32.3 (1.27)
Mainshaft fifth gear	4th gear	30.92–30.97 (1.217–1.219)	30.8 (1.21)
	I.D.	43.009–43.025 (1.6933–1.6939)	43.080 (1.6961)
	End play	0.06–0.21 (0.0024–0.0083)	0.30 (0.012)
Countershaft	Thickness	30.42–30.47 (1.198–1.200)	30.3 (1.193)
	End play	0.05–0.21 (0.0019–0.0083)	0.50 (0.02)
	Diameter of needle bearing contact area	33.000–33.015 (1.2992–1.2998)	32.95 (1.297)
	Diameter of ball bearing needle bearing contact area	24.987–25.000 (0.9837–0.9845)	24.94 (0.982)
	Diameter of low gear contact area	39.984–40.000 (1.5742–1.5748)	39.93 (1.572)
Runout	0.02 (0.0008) max.	0.05 (0.002)	

8. Manual Transmission (cont'd)

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Countershaft low gear	I.D. End play	46.009–46.025 (1.8114–1.8120) 0.04–0.10 (0.002–0.004)	46.08 (1.814) Adjust with a washer.
Countershaft second gear	I.D. End play Thickness	50.009–50.025 (1.9689–1.9695) 0.04–0.10 (0.002–0.004) 33.92–33.97 (1.335–1.337)	50.08 (1.972) Adjust with a collar. 32.8 (1.2913)
Spacer collar (Countershaft second gear)	I.D. O.D. Length	36.48–36.49 (1.4362–1.4366) 43.989–44.000 (1.7318–1.7323) 29.03–29.05 (1.1429–1.1437) 28.98–29.00 (1.1409–1.1417)	36.50 (1.437) 43.94 (1.730) — —
Spacer collar (Mainshaft fourth and fifth gears)	I.D. O.D. Length	31.002–31.012 (1.2205–1.2209) 37.989–38.000 (1.4956–1.4961) 56.45–56.55 (2.222–2.226) 26.03–26.08 (1.0248–1.0268)	31.06 (1.223) 37.94 (1.494) — 26.01 (1.024)
		A B	
Reverse idler gear	I.D. Gear-to-reverse gear shaft clearance	20.016–20.043 (0.7880–0.7891) 0.036–0.084 (0.0014–0.0033)	20.09 (0.7909) 0.160 (0.006)
Synchronizer ring	Ring-to-gear clearance (ring pushed against gear)	0.85–1.10 (0.0335–0.0433)	0.40 (0.016)
Shift fork	Synchronizer sleeve groove width Fork-to-synchronizer sleeve clearance	6.75–6.85 (0.266–0.270) 0.35–0.65 (0.014–0.026)	— 1.0 (0.039)
Reverse shift fork	Pawl groove width Fork-to-reverse idle gear clearance Groove width Fork-to fifth/reverse shift Shaft clearance	13.0–13.3 (0.51–0.52) 0.5–1.1 (0.02–0.43) 7.05–7.25 (0.278–0.2854) 7.4–7.7 (0.29–0.30) 0.05–0.35 (0.002–0.014) 0.4–0.8 (0.02–0.03)	1.8 (0.07) — — 0.5 (0.02) 1.0 (0.04)
		at A at B at A at B	
Shift arm	I.D. Shift arm-to-shaft clearance Shift fork diameter at contact area Shift-arm-to-shift fork shaft clearance	15.973–16.000 (0.6289–0.6299) 0.005–0.059 (0.0002–0.0023) 12.9–13.0 (0.508–0.512) 0.2–0.5 (0.01–0.02)	— — — 0.6 (0.02)
Select lever	Pin size of contact area Shaft outer diameter Shift arm cover clearance	7.9–8.0 (0.311–0.315) 15.41–15.68 (0.607–0.617) 0.032–0.102 (0.0013–0.0040)	— — —
Shift arm lever	O.D. Transmission housing clearance	15.941–15.968 (0.6276–0.6287) 0.027–0.139 (0.0011–0.0055)	— —
Inter lock	Bore diameter Shift arm lever clearance	16.00–16.05 (0.630–0.632) 0.032–0.109 (0.0013–0.0043)	— —
Ring gear	Backlash	0.085–0.142 (0.0033–0.0056)	0.200 (0.0079)
Differential carrier	Pinion shaft bore diameter Carrier-to-pinion shaft clearance Driveshaft bore diameter Carrier-to-driveshaft clearance	18.000–18.018 (0.7087–0.7094) 0.017–0.047 (0.0007–0.0019) 28.005–28.025 (1.1026–1.1033) 0.020–0.062 (0.0008–0.0024) 0.055–0.091 (0.0022–0.0036)	— 0.100 (0.0039) — 0.120 0.150
		R L	
Differential pinion gear	Backlash Pinion gear bore diameter Pinion gear-to-pinion shaft clearance	0.05–0.15 (0.002–0.006) 18.042–18.066 (0.7103–0.7113) 0.059–0.095 (0.0023–0.0037)	Selection with 7 types of washers. — 0.150 (0.0059)
Differential taper roller bearing	Preload	1.4–2.6 N·m (14–26 kg·cm, 1.0–1.9 lb·ft)	Selection with 20 types of shims.

Standards and Service Limits

9. Automatic Transmission

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT	
Transmission oil	Capacity ^ℓ (U.S. qt., Imp. qt.)	2.4 (2.5, 2.1) at oil change 6.0 (6.4, 5.2) at assembly		
Hydraulic pressure	Line pressure at 2,000 min ⁻¹ (rpm)	784 kPa (8.0 kg/cm ² , 113 psi) Throttle valve full-closed 833 kPa (8.5 kg/cm ² , 120 psi) Throttle valve more than 2/8 open	735 kPa (7.5 kg/cm ² , 106 psi) Throttle valve more than 2/8 open	
	4th clutch pressure at 2,000 min ⁻¹ (rpm)	490 kPa (5.0 kg/cm ² , 74 psi) Throttle valve full-closed 833 kPa (8.5 kg/cm ² , 120 psi) Throttle valve more than 2/8 open	460 kPa (4.7 kg/cm ² , 66 psi) Throttle valve full-closed 735 kPa (7.5 kd/cm ² , 106 psi) Throttle valve more than 2/8 open	
	3rd clutch pressure at 2,000 min ⁻¹ (rpm)	490 kPa (5.0 kg/cm ² , 71 psi) Throttle valve full-closed 833 kPa (8.5 kg/cm ² , 71 psi) Throttle valve more than 2/8 open	441 kPa (4.5 kg/cm ² , 64 psi) Throttle valve full-closed 735 kPa (7.5 kg/cm ² , 106 psi) Throttle valve than 2/8 open	
	2nd clutch pressure at 2,000 min ⁻¹ (rpm)	490 kPa (5.0 kg/cm ² , 71 psi) Throttle valve full-closed 833 kPa (8.5 kg/cm ² , 120 psi) Throttle valve more than 2/8 open	441 kPa (4.5 kg/cm ² , 64 psi) Throttle valve full-closed 735 kPa (7.5 kg/cm ² , 106 psi) Throttle valve more than 2/8 open	
	1st clutch pressure at 2,000 min ⁻¹ (rpm)	784-833 kPa (8.0-8.5 kg/cm ² , 113-120 psi)	735 kPa (7.5 kg/cm ² , 106 psi)	
	Throttle B pressure	closed	0	—
		open	784-833 kPa (8.0-8.5 kg/cm ² , 113-120 psi)	735 kPa (7.5 kg/cm ² , 106 psi)
Stall speed	Check with car on level ground	2,350-2,650 min ⁻¹ (rpm)		
Clutch	Clutch initial clearance	1st hold	0.8-1.0 (0.031-0.039)	
		1st, 2nd	0.65-0.85 (0.026-0.033)	
		3rd, 4th	0.4-0.6 (0.016-0.024)	
	Clutch return spring free length	1st, 2nd, 3rd, 4th, 33.5 (1.318)	31.5 (1.240)	
	Clutch disc thickness	1.88-2.0 (0.074-0.0807)	Until grooves worn out	
	Clutch plate thickness	1st, 1.95-2.05 (0.0767-0.0807)	Discoloration ↑	
2nd, 2.55-2.65 (0.1003-0.1043)				
Clutch end plate thickness	Mark 1 Mark 2 Mark 3 Mark 4 Mark 5 Mark 6 Mark 7 Mark 8 Mark 9	2.05-2.10 (0.081-0.083)	↓ Discoloration	
		2.15-2.20 (0.085-0.087)		
		2.25-2.30 (0.089-0.091)		
		2.35-2.40 (0.093-0.094)		
		2.45-2.50 (0.096-0.098)		
		2.55-2.60 (0.100-0.102)		
		2.65-2.70 (0.104-0.106)		
2.75-2.80 (0.108-0.110)				
2.85-2.90 (0.112-0.114)				

Standards and Service Limits

9. Automatic Transmission (cont'd)

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Rign gear	Backlash	0.085—0.142 (0.003—0.006)	0.200 (0.008)
Differential carrier	Pinion shaft bore diameter	18.000—18.018 (0.7087—0.7094)	—
	Carrier-to-pinion shaft clearance	0.017—0.047 (0.001—0.002)	0.100 (0.004)
	Driveshaft bore diameter	28.005—28.025 (1.1026—1.1033)	—
	Carrier-to driveshaft clearance	0.025—0.066 (0.001—0.003)	0.120 (0.005)
Differential pinion gear	Backlash	0.08—0.15 (0.03—0.006)	Adjust with a washer
	Pinion gear bore diameter	18.042—18.066 (0.710—0.711)	—
	Pinion gear-to pinion shaft clearance	0.059—0.095 (0.002—0.004)	0.150 (0.006)
Differential taper roller bearing preload	For used bearing	2.5—3.7 N·m (25—37 kg-cm, 22—32 lb-in)	Adjust with a washer
	After replacement of bearing	2.8—4.0 N·m (28—40 kg-cm, 24—35 lb-in)	Adjust with a washer

11. Steering

	MEASUREMENT	STANDARD (NEW)	
Steering wheel	Play	10 (0.39) maximum	
Gearbox	Pinion starting torque	Below 1.0N-m (10 kg-cm, 0.72 lb-ft)	
	Angle of rack guide screw loosend from locked position	35° \pm 5°	
Pump	Pump pressure with valve closed (oil temperature: 40°C/104°F minimum) Do not run for more than 5 seconds	7,845—8,826 kPa (80—90 kg/cm ² , 1,138—1,280 psi) at idle	
Power steering fluid	Capacity	0.5 ℓ (0.53 US qt., 0.44 Imp qt.)	
	Reservoir At change (approx.)	1.8 ℓ 1.90 US qt. 1.58 Imp qt.)	
Power steering belt	Deflection between pulleys with 98 N (10 kg, 22 lbs) force	For used belt	13.0—16.0 (0.51—0.62)
		For new belt	9.5—11.5 (0.37—0.45)
	Belt tension between pulleys (measured with tension gauge)	For used belt	343—490 N (35—50 kg, 77—110 lb)
		For new belt	686—882 N (70—90 kg, 154—198 lb)

12. Suspension

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Wheel alignment	Total toe	Front	0 ± 2 (0 ± 0.08)
		Rear	IN 4 ± 2 (0.16 ± 0.08)
	Camber	Front	0° 00' ± 1'
		Rear	-0° 30' ± 1'
	Caster	Front	3° 00' ± 1'
Front Wheel turning angle	Inward wheel	39° ± 2'	
	Outward wheel (reference)	29° 30'	
Wheel	Rim runout	Steel wheel	Below 1.0 (0.04)
		Aluminum wheel	Below 1.0 (0.04)
	Axial	Radial	Below 0.7 (0.03)
		Radial	Below 0.7 (0.03)
Wheel bearing	End play	Front	0—0.05 (0—0.002)
		Rear	0—0.05 (0—0.002)

Unit of length: mm (in.)

13. Brakes

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Parking brake lever	Play in stroke 200 N (20 kg, 44 lbs)		To be locked when pulled 4–8 notches	---
Foot brake pedal	Pedal height (from floor)	MT AT	190 (7.5) 195 (7.7)	---
Master cylinder	Piston-to-push rod clearance		0–0.4 (0–0.016)	---
Disc brake	Disc thickness	Front	23.0 (0.91)	21.0 (0.83)
		Rear	10.0 (0.39)	8.0 (0.32)
	Disc runout	Front	---	0.10 (0.004)
		Rear	---	0.15 (0.006)
Disc parallelism Pad thickness	Front and rear Front Rear	12.5 (0.49) 9.0 (0.35)	0.015 (0.0006) 1.6 (0.06) 1.6 (0.06)	
Brake booster	Characteristics at 20 kg (44 lbs) pedal pressure		Line pressure Unit: kPa (kg/cm ² /psi)	
	Vacuum			
	0 mm (0 in) Hg 300 mm (11.8 in) Hg 500 mm (19.7 in) Hg		922 (9.4/134) minimum 5,494 (56/796) minimum 8,535 (87/1,237) minimum	

15. Air Conditioner

	MEASUREMENT		STANDARD (NEW)
Air conditioner system	Lubricant capacity	Condenser Evaporator Line or hose Reservoir	10 cc (0.3 US oz., 0.4 Imp oz.) 25 cc (0.8 US oz., 0.9 Imp oz.) 10 cc (0.3 US oz., 0.4 Imp oz.) 10 cc (0.3 US oz., 0.4 Imp oz.)
Compressor	Lubricant capacity Stator coil resistance at 20°C (68°F) Pulley-to pressure plate clearance		900–950 g (31.7–33.5 oz) 3.4–3.8 Ω 0.35–0.65 (0.014–0.026)
Compressor belt	Deflection between pulleys with 98N (10 kg, 22 lbs) force	For used belt For new belt	10–12 (0.4–0.5) 4.5–7.0 (0.18–0.28)
	Belt tension between pulleys (measured with tension gauge)	For used belt For new belt	441–588 N (45–60 kg, 99–132 lbs) 931–1,127 N (95–115 kg, 209–254 lbs)

Standards and Service Limits

Unit of length: mm (in.)

16. Electrical

		MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Ignition coil	Rated voltage		12 Volts	
	Winding resistance	Primary Secondary	0.6-0.8 Ω 12.9-19.3 kΩ	
Ignition wire	Resistance		25 kΩ maximum	
Spark plug	Type	standard	ZFR6F-11 (NGK) or KJ20CR-L11 (ND)	
	(): Manufacturer	Option	ZFR7F-11 (NGK) or KJ22CR-L11 (ND)	
	Gap		1.0-1.1 (0.039-0.043)	
Ignition timing	At idling		15° ± 2° BTDC	
Battery	Lighting capacity (20-hours ratio)		65Ah	
	Starting capacity (voltage after 5 sec.)		8.4 V minimum/300 ampere draw at -15°C (59°F)	
Alternator	Output		80A	
	Rotor coil resistance		2.8-3.0 Ω	
	Slip ring O.D.		14.4 (0.57)	
	Brush length		10.5 (0.41)	
	Brush spring tension		300-360 g (10.6-12.7 oz)	
Alternator belt	Deflection at midway between pulleys with 98 N (10 kg, 22 lb) force	Model without A/C	Used belt	10-12 (0.39-0.47)
			New belt	8.5-11 (0.33-0.43)
		Model with A/C	Used belt	10-12 (0.39-0.47)
			New belt	4.5-7.0 (0.18-0.28)
	Belt tension between pulleys (measured with tension gauge)	Model without A/C	Used belt	294-441 N (30-45 kg, 66-99 lb)
			New belt	441-637 N (45-65 kg, 99-143 lb)
		Model with A/C	Used belt	441-637 N (45-65 kg, 99-143 lb)
			New belt	931-1,128 N (95-115 kg, 209-154 lb)
Starting motor	Output		1.6 kw	
	Manufacturer: Mitsuba	Mica depth	0.4-0.5 (0.016-0.02)	
		Commutator runout	0-0.02 (0-0.001)	
		Commutator O.D.	28.0-28.1 (1.10-1.11)	
		Brush length	15.8-16.2 (0.62-0.64)	
	Brush spring tension	16-18N (1.6-1.8 kg, 3.5-4.0 lbs)		
Manufacturer: NIPPONDENSO	Mica depth	0.5-0.8 (0.02-0.03)		
	Commutator runout	0-0.02 (0-0.001)		
	Commutator O.D.	29.9-30.0 (1.18-1.18)		
	Brush length	15.0-15.5 (0.59-0.61)		
Brush spring tension	19-24N (1.9-2.4 kg, 4.2-5.3 lbs)			