

Standards and Service Limits

Cylinder Head/Valve Train (ZC1) — Section 6

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Compression	300 min ⁻¹ (rpm) and wide-open throttle	Nominal Minimum Maximum variation	1,323 kPa (13.5 kg/cm ² , 192 psi) 1,127 kPa (11.5 kg/cm ² , 164 psi) 196 kPa (2 kg/cm ² , 28 psi)
Cylinder head	Warpage Height	132.0(5.20)	0.05 (0.002) 131.8(5.19)
Camshaft	End play Oil clearance Runout Cam lobe height	0.05—0.15 (0.002—0.006) 0.050—0.089 (0.002—0.004) 0.03 (0.001) max. 32.982 (1.2985) 32.342(1.2733)	0.5 (0.02) 0.15 (0.006) 0.06 (0.002) —
Valve	Valve clearance Valve stem O.D. Stem-to-guide clearance Stem installed height	IN EX IN EX IN EX IN EX	— — 6.55 (0.258) 6.52 (0.257) 0.08 (0.003) 0.11 (0.004) 46.57 (1.833) 45.76 (1.802)
Valve seat	Width	IN and EX	1.25—1.55 (0.049—0.061) 2.0 (0.08)
Valve spring	Free length Squareness Inner and Outer	IN EX	45.8 (1.80) 47.1 (1.85) 44.8 (1.76) 46.1 (1.81) 1.6 (0.063)
Valve guide	I.D.	IN and EX	6.61—6.63 (0.260—0.261) 6.65 (0.262)

* Setting point between camshaft and rocker arm.

Cylinder Head/Valve Train (EW2) — Section 6

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Compression	300 min ⁻¹ (rpm) and wide-open throttle	Nominal Minimum Maximum variation	1,176 kPa (12.0 kg/cm ² , 171 psi) 980 kPa (10.0 kg/cm ² , 142 psi) 196 kPa (2 kg/cm ² , 28 psi)
Cylinder head	Warpage Height	90(3.54)	0.05 (0.002) 89.8(3.53)
Camshaft	End play Oil clearance Runout Cam lobe height	0.05—0.15 (0.002—0.006) 0.050—0.089 (0.002—0.004) 0.03 (0.001) max. 40.370(1.5894) 40.391(1.5902)	0.5 (0.02) 0.15 (0.006) 0.06 (0.002) —
Valve	Valve clearance Valve stem O.D. Stem-to-guide clearance Stem installed height	IN EX IN EX IN EX IN and EX	— — 6.55 (0.258) 6.52 (0.257) 0.08 (0.003) 0.11 (0.004) 48.95(1.927)
Valve seat	Width	IN and EX	1.25—1.55 (0.049—0.061) 2.0 (0.08)
Valve spring	Free length Squareness Inner and Outer	IN and EX	47.6 (1.85) 46.6(1.83) 1.75 (0.068)
Valve guide	I.D.	IN and EX	6.61—6.63 (0.260—0.261) 6.65 (0.262)
Rocker arm	Arm-to-shaft clearance		0.018—0.054(0.0007—0.0021) 0.08(0.003)

Engine Block (ZC1) — Section 7

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Cylinder block	Warpage of deck surface Bore diameter Bore taper Reboring limit	0.07 (0.003) max. 75.00—75.02 (2.9528—2.9535) 0.07—0.012 (0.0003—0.0005) —	0.10 (0.004) 75.07 (2.9555) 0.05 (0.002) 0.5 (0.02)
Piston	Skirt O.D. Clearance in cylinder Piston-to-ring clearance	At 16 mm (0.63 in) from bottom of skirt (Top) (Second)	74.98—74.99 (2.9520—2.9524) 0.01—0.05 (0.0004—0.0020) 0.03—0.06 (0.0012—0.0024) 0.030—0.055 (0.0012—0.0022)
Piston ring	Ring end gap (top and second) Ring end gap (oil)	0.15—0.35 (0.006—0.014) 0.20—0.70 (0.008—0.028)	0.6 (0.02) 0.8 (0.03)
Connecting rod	Pin-to-rod interference Large end bore diameter End play installed on crankshaft	0.014—0.040 (0.0006—0.0016) Nominal 48.0 (1.89) 0.15—0.30 (0.006—0.012)	— 0.40 (0.016)
Crankshaft	Main Journal diameter Taper/out-of-round, main journal Rod Journal diameter Taper/out-of-round, rod Journal End play Runout	54.976—55.000 (2.1644—2.1654) 0.005 (0.0002) max. 44.976—45.000 (1.7707—1.7717) 0.005 (0.0002) max. 0.10—0.35 (0.004—0.014) 0.03 (0.0012) max.	0.010 (0.0004) — 0.010 (0.0004) 0.45 (0.018) 0.06 (0.0024)
Bearings	Main bearing-to-journal oil clearance No. 3 Journal Other Journals Rod bearing-to-journal oil clearance	0.030—0.048 (0.0012—0.0019) 0.024—0.042 (0.0009—0.0017) 0.020—0.038 (0.0008—0.0015)	0.05 (0.002) 0.05 (0.002) 0.05 (0.002)

Engine Block (EW2) — Section 7

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Cylinder block	Warpage of deck surface Bore diameter Bore taper Reboring limit	0.07 (0.003) max. 74.00—74.02 (2.9133—2.9142) 0.07—0.012 (0.0003—0.0005) —	0.10 (0.004) 75.10 (2.9173) 0.05 (0.002) 0.5 (0.02)
Piston	Skirt O.D. Clearance in cylinder Piston-to-ring clearance (Top) (Second)	At 16 mm (0.63 in) from bottom of skirt 73.97—73.99 (2.9122—2.9133) 0.01—0.05 (0.0004—0.0020) 0.03—0.06 (0.0012—0.0024) 0.030—0.055 (0.0012—0.0022)	73.97 (2.912) 0.07 (0.003) 0.13 (0.005) 0.13 (0.005)
Piston ring	Ring end gap (top and second) Ring end gap (oil)	0.15—0.35 (0.006—0.014) 0.30—0.90 (0.012—0.035)	0.6 (0.024) 1.1 (0.043)
Connecting rod	Pin-to-rod interference Large end bore diameter End play installed on crankshaft	0.02—0.045 (0.0006—0.0016) Nominal 45 (1.77) 0.15—0.30 (0.006—0.012)	— — 0.40 (0.016)
Crankshaft	Main Journal diameter Taper/out-of-round, main journal Rod Journal diameter Taper/out-of-round, rod Journal End play Runout	49.976—50.000 (1.9676—1.9685) 0.005 (0.0002) max. 41.976—42.000 (1.6526—1.6535) 0.005 (0.0002) max. 0.10—0.35 (0.004—0.014) 0.03 (0.0012) max.	— 0.010 (0.0004) — 0.010 (0.0004) 0.45 (0.018) 0.06 (0.0024)
Bearings	Main bearing-to-journal oil clearance Rod bearing-to-journal oil clearance	0.024—0.042 (0.0009—0.0017) 0.020—0.038 (0.0008—0.0015)	0.07 (0.003) 0.07 (0.003)

Engine Lubrication (ZC1) — Section 8

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Engine oil	Capacity ℓ (US.qt., Imp.qt.)	4.0 (4.2, 3.5) After engine disassembly 3.5 (3.7, 3.1) After oil change, including oil filter 3.0 (3.2, 2.6) After oil change, without oil filter	
Oil pump	Displacement Inner-to-outer rotor radial clearance Pump body-to-rotor radial clearance Pump body-to-rotor side clearance	46 ℓ (12.4 US gal., 10.3 Imp gal.) 5,000 min ⁻¹ (rpm) 0.14 (0.006) max. 0.10—0.175 (0.004—0.007) 0.03—0.08 (0.001—0.003)	0.2 (0.008) 0.2 (0.008) 0.15 (0.006)
Relief valve	Pressure setting 80°C (176°F) Idle 3,000 min ⁻¹ (rpm)	147 kPa (1.5 kg/cm ² , 21 psi) min 412—539 kPa (4.2—5.5 kg/cm ² , 60—78 psi)	

Engine Lubrication (EW2) — Section 8

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Engine oil	Capacity ℓ (US.qt., Imp.qt.)	4.0 (4.2, 3.5) After engine disassembly 3.5 (3.7, 3.1) After oil change, including oil filter 3.0 (3.2, 2.6) After oil change, without oil filter	
Oil pump	Displacement Inner-to-outer rotor radial clearance Pump body-to-rotor radial clearance Pump body-to-rotor side clearance	35 ℓ (9.2 US gal., 7.7 Imp gal.) 3,000 min ⁻¹ (rpm) 0.14 (0.006) max. 0.10—0.175 (0.004—0.007) 0.03—0.08 (0.001—0.003)	0.2 (0.008) 0.2 (0.008) 0.15 (0.006)
Relief valve	Pressure setting 80°C (176°F) Idle 3,000 min ⁻¹ (rpm)	147 kPa (1.5 kg/cm ² , 21 psi) min 333—412 kPa (3.4—4.2 kg/cm ² , 48—60 psi)	

Cooling (With ZC1 Engine) — Section 10

	MEASUREMENT	STANDARD (NEW)
Radiator	Capacity (incl. heater) ℓ (US.Gal., Imp.Gal.) Pressure cap opening pressure	5.6 (1.5, 1.2) Includes reservoir tank 0.4 (0.11, 0.09) 74—103 kPa (0.75—1.05 kg/cm ² , 11—15psi)
Thermostat	Starts to open Full open Valve lift at full open	76—78°C (169—173°F) 91°C (196°F) 8 (0.31) max.
Cooling fan	Fan-to-core clearance Thermoswitch "ON" temperature Thermoswitch "OFF" temperature	50 (1.97) 88.5—91.5°C (191—197°F) 85.5—86.5°C (186—188°F)

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Standards and Service Limits (cont'd)

Cooling (With EW2 Engine) — Section 10

	MEASUREMENT	STANDARD (NEW)
Radiator	Capacity (incl. heater) ℓ (US. Gal., Imp. Gal.)	5.6 (1.5, 1.2) Includes reservoir tank 0.4 (0.11, 0.09)
	Pressure cap opening pressure	74–103 kPa (0.75–1.05 kg/cm ² , 11–15 psi)
Thermostat	Starts to open	76–78°C (169–173°F)
	Full open	91°C (196°F)
	Valve lift at full open	8 (0.31) max.
Cooling fan	Fan-to-core clearance	ND 22 mm (0.87 in.) TOYO 17.5 mm (0.69 in)
	Thermoswitch "ON" temperature	88.5–91.5°C (191–197°F)
	Thermoswitch "OFF" temperature	85.5–86.5°C (186–188°F)

Fuel — Section 11

	MEASUREMENT	STANDARD (NEW)
Idle	Fast idle	1,000–1,800 min ⁻¹ (rpm)
	Idle speed with headlights and cooling fan off	850±50 min ⁻¹ (rpm)
	Idle CO	below 2.0%
Fuel pump	Delivery pressure	245 kPa (2.5 kg/cm ² , 36 psi)
	Displacement	230 cc in 10 seconds
	Relief valve opening pressure	441–588 kPa (4.5–6.0 kg/cm ² , 64–85 psi)
Pressure Regulator	Pressure	230–270 kPa (2.35–2.75 kg/cm ² , 33–39 psi)
Fuel tank	Capacity	41 ℓ (10.8 US. Gal., 9.0 Imp. Gal.)

Fuel and Carburetor — Section 12

	MEASUREMENT	STANDARD (NEW)
Idle	Choke fast idle	1,500–2,500 min ⁻¹ (rpm)
	Idle speed with headlights and cooling fan off	700–800 min ⁻¹ (rpm)
	Idle CO	below 1.0%
Carburetor	Float level	35.4–37.4 (13.9–14.7 in.)
Fuel pump	Delivery pressure	17.7–26.5 kPa (0.18–0.27 kg/cm ² , 2.6–3.8 psi)
	Displacement	170 cc/min at idle
Fuel tank	Capacity	41 ℓ (10.8 US. Gal., 9.0 Imp. Gal.)

Clutch (With ZC1 Engine) — Section 13

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Clutch pedal	Pedal height	144 (5.67) to floor	—
	Stroke	135–140 (5.3–5.5)	—
	Pedal play	16–21 (0.63–0.83)	—
	Disengagement height	56 (2.2) min. to floor	—
Clutch arm	Release arm adjustment	4.0–5.0 (0.16–0.20)	—
Flywheel	Clutch surface runout	0.05 (0.002) max.	0.15 (0.006)
Clutch plate	Rivet head depth	1.3 (0.05) min.	0.2 (0.008)
	Surface runout	0.8 (0.03) max.	1.0 (0.04)
	Thickness	8.1–8.8 (0.32–0.35)	5.7 (0.22)
Clutch release bearing holder	I.D.	31.000–31.059 (1.220–1.223)	31.09 (1.224)
	Holder-to-guide sleeve clearance	0.050–0.15 (0.002–0.006)	0.22 (0.009)
Clutch cover	Unevenness of diaphragm spring	0.8 (0.03) max.	1.0 (0.04)

Clutch (With EW2 Engine) — Section 13

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Clutch pedal	Pedal height	175 (6.89) to floor	—
	Stroke	135–140 (5.3–5.5)	—
	Pedal play	10–30 (0.39–1.18)	—
	Disengagement height	61 (2.4) min. to floor	—
Clutch arm	Release arm adjustment	4.0–5.0 (0.16–0.20)	—
Flywheel	Clutch surface runout	0.05 (0.002) max.	0.15 (0.006)
Clutch plate	Rivet head depth	1.3 (0.05) min.	0.2 (0.008)
	Surface runout	0.8 (0.03) max.	1.0 (0.04)
	Thickness	8.1–8.8 (0.32–0.35)	5.7 (0.22)
Clutch release bearing holder	I.D.	29.000–29.059 (1.142–1.144)	29.20 (1.150)
	Holder-to-guide sleeve clearance	0.040–0.132 (0.0016–0.0052)	0.2 (0.008)
Clutch cover	Unevenness of diaphragm spring	0.8 (0.03) max.	1.0 (0.04)

Manual Transmission (CG) — Section 14

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Transmission oil	Capacity ℓ (US.qt., Imp.qt)	2.4 (2.5, 2.1) at assembly 2.3 (2.4, 2.0) at oil change	
Mainshaft	End play Diameter of needle bearing contact area Diameter of third gear contact area Diameter of ball bearing contact area Runout	0.10—0.35 (0.004—0.014) 27.920—27.980 (1.099—1.102) 31.984—32.000 (1.2592—1.2598) 24.980—24.993 (0.9835—0.9840) 0.04 (0.0016) max.	0.5 (0.02) 27.87 (1.097) 31.93 (1.2571) 24.93 (0.981) 0.10 (0.004)
Mainshaft third and fourth gears	I.D. End Play Thickness	37.009—37.025 (1.4570—1.4577) 0.03—0.18 (0.0012—0.0071) 31.42—31.47 (1.237—1.239)	37.07 (1.459) 0.3 (0.012) 31.3 (1.232)
Mainshaft fifth gear	I.D. End play Thickness	37.009—37.025 (1.4570—1.4577) 0.03—0.13 (0.0012—0.0051) 32.42—32.47 (1.276—1.278)	37.07 (1.459) 0.25 (0.01) 32.3 (1.272)
Countershaft	End play Diameter of needle bearing contact area Diameter of ball bearing contact area Diameter of low gear contact area Runout	0.10—0.35 (0.004—0.014) 33.000—33.015 (1.2992—1.2998) 24.980—24.993 (0.9835—0.9840) 33.984—34.000 (1.3380—1.3386) 0.04 (0.0016)	0.5 (0.02) 32.95 (1.297) 24.93 (0.981) 33.93 (1.336) 0.10 (0.004)
Countershaft low gear	I.D. End play	39.008—39.025 (1.5357—1.5364) 0.03—0.08 (0.0012—0.0031)	39.07 (1.538) 0.18 (0.007)
Countershaft second gear	I.D. End play Thickness	43.008—43.025 (1.6932—1.6939) 0.03—0.10 (0.0012—0.0039) 30.42—30.47 (1.1976—1.1996)	43.07 (1.696) 0.18 (0.007) 30.3 (1.193)
Spacer collar (Countershaft second gear)	I.D. O.D. Length	30.98—30.99 (1.2197—1.2201) 37.989—38.000 (1.4956—1.4961) 30.53—30.55 (1.2020—1.2028)	31.4 (1.236) 37.93 (1.493) 30.51 (1.201)
Spacer collar (Mainshaft fourth and fifth gears)	I.D. O.D. Length	25.002—25.012 (0.9843—0.9847) 31.989—32.000 (1.2594—1.2598) 27.03—27.08 (1.0642—1.0661)	25.06 (0.987) 31.93 (1.257) 27.01 (1.063)
Reverse idler gear	I.D. Gear-to-reverse gear shaft clearance	17.016—17.043 (0.6699—0.6710) 0.032—0.077 (0.0013—0.0030)	17.09 (0.673) 0.15 (0.006)
Synchromizer ring	Ring-to-gear clearance (ring pushed against gear)	0.73—1.18 (0.029—0.046)	0.4 (0.016)
Shift fork	Synchronizer sleeve gear Fork-to-synchromizer sleeve clearance	6.75—6.85 (0.266—0.270) 0.35—0.65 (0.014—0.026)	6.0 (0.24) 1.0 (0.04)
Reverse shift fork	End gap Fork-to-reverse idler gear clearance Groove width Fork-to-fifth/reverse shift shaft clearance	11.8—12.1 (0.46—0.48) 0.2—1.0 (0.008—0.039) 7.05—7.25 (0.278—0.285) 0.05—0.35 (0.002—0.014)	— 1.7 (0.07) — 0.5 (0.02)
Shift arm	Width of groove in shift rod guide Shift arm-to-shift rod guide Width in shift guide Shift arm-to-shift guide clearance	11.8—12.0 (0.46—0.47) 0.05—0.35 (0.002—0.014) 7.9—8.0 (0.311—0.315) 0.1—0.3 (0.004—0.012)	— 0.8 (0.03) — 0.6 (0.02)
Shift rod guide	I.D. Guide-to-shaft clearance O.D. Guide-to-fifth/reverse shift shaft clearance	14.000—14.068 (0.5512—0.5539) 0.011—0.092 (0.0004—0.0036) 11.9—12.0 (0.469—0.472) 0.2—0.5 (0.008—0.020)	— 0.15 (0.006) — 0.8 (0.03)
Selector arm	Width Arm-to-shift rod guide clearance End gap Arm-to-interlock clearance Arm-to-holder clearance	11.9—12.0 (0.469—0.472) 0.05—0.25 (0.002—0.010) 10.05—10.15 (0.396—0.400) 0.05—0.25 (0.002—0.010) 0.01—0.20 (0.004—0.0079)	— 0.5 (0.02) — 0.7 (0.03) Selection with 5 types of shims

Manual Transmission (GW) — Section 14

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Transmission oil	Capacity ℓ (US.qt., Imp.qt)	2.5 (2.6, 2.2) at assembly 2.3 (2.4, 2.0) at oil change	
Mainshaft	End play Diameter of needle bearing contact area Diameter of fifth gear contact area Diameter of 62/22 ball bearing contact area Diameter of 6304 ball bearing contact area Runout	0.11—0.28 (0.004—0.007) 27.997—28.010 (1.1022—1.1028) 24.987—25.000 (0.9837—0.934) 21.987—22.000 (0.8656—0.8661) 19.983—19.996 (0.7867—0.7872) 0.02 (0.0008) max.	— 27.94 (1.100) 24.93 (0.981) 21.93 (0.863) 19.93 (0.7846) 0.05 (0.019)
Mainshaft third gear	I.D. End Play	30.007—30.020 (1.1814—1.1819) 0.05—0.35 (0.0020—0.0138)	30.07 (1.184) —
Countershaft	End play Diameter of needle bearing contact area Diameter of ball bearing contact area Diameter of low gear conact area Runout	0.35 (0.0138) 30.004—30.017 (1.1813—1.1818) 24.9935—25.0065 (0.9840—0.9845) 31.984—32.000 (1.2592—1.2598) 0.04 (0.0016)	0.65 (0.026) 29.94 (1.179) 24.94 (0.982) 31.93 (1.257) 0.10 (0.004)
Countershaft low gear	I.D. End play	37.009—37.025 (1.4570—1.4577) 0.03—0.08 (0.0012—0.0031)	37.08 (1.460) 0.18 (0.007)
Countershaft second, third/fourth gear	I.D. End play	37.009—37.025 (1.4570—1.4577) 0.05—0.12 (0.0020—0.0047)	37.08 (1.460) 0.18 (0.007)

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Standards and Service Limits (cont'd)

Manual Transmission (GW—cont'd) — Section 14

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Spacer collar	Second, Third	I.D. O.D. Length	25.980—25.991 (1.0228—1.0233) 31.989—32.000 (1.2954—1.2598) 28.01—28.13 (1.1028—1.468)	26.04 (1.025) 31.93 (1.257) —
	Fourth	I.D. O.D. Length	25.007—25.037 (0.9345—0.9857) 31.989—32.000 (1.2594—1.2598) 28.01—28.13 (1.1028—1.1074)	25.08 (0.987) 31.93 (1.257) —
Reverse idler gear	I.D. Gear-to-reverse gear shaft clearance		15.016—15.043 (0.5912—0.5922) 0.032—0.077 (0.0013—0.0030)	15.08 (0.594) 0.14 (0.006)
Synchromizer ring ring	Ring-to-gear clearance (ring pushed against gear)		0.85—1.10 (0.033—0.43)	0.4 (0.016)
Shift fork	Synchronizer sleeve gear		6.75—7.05 (0.2736—0.2776)	—
	Fork-to-synchromizer sleeve clearance		0.45—0.65 (0.018—0.026)	1.0 (0.039)
Reverse shift fork	End gap		6.9—7.0 (0.27—0.28)	—
	Fork-to-reverse idler gear clearance		0.1—0.3 (0.004—0.012)	0.7 (0.028)
	Groove width		7.05—7.25 (0.278—0.285)	—
	Fork-to-fifth/reverse shift shaft clearance		0.05—0.35 (0.002—0.014)	0.5 (0.020)
Shift arm B	I.D.		11.8—12.0 (0.465—0.472)	—
	Shift arm-to-shift rod guide		0.05—0.35 (0.002—0.014)	0.8 (0.032)

Differential (With ZC1 Engine) — Section 17

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Ring gear	Backlash		0.14—0.20 (0.006—0.008)	0.25 (0.010)
Differential carrier	Pinion shaft bore diameter		18.000—18.018 (0.7087—0.7094)	18.1 (0.71)
	Carrier-to-pinion shaft clearance		0.016—0.052 (0.0006—0.0020)	0.1 (0.004)
	Driveshaft bore diameter		28.00—28.021 (1.1024—1.1032)	—
	Carrier-to-driveshaft clearance		0.020—0.062 (0.0010—0.0027)	0.12 (0.005)
Differential pinion gear	Backlash		0.05—0.15 (0.002—0.006)	0.2 (0.008)
	Pinion gear bore diameter		18.041—18.061 (0.7103—0.7111)	—
	Pinion gear-to-pinion shaft clearance		0.057—0.095 (0.0022—0.0037)	0.15 (0.006)

Differential (With EW2 Engine) — Section 17

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Ring gear	Backlash		0.14—0.20 (0.006—0.008)	0.25 (0.010)
Differential carrier	Pinion shaft bore diameter		18.000—18.018 (0.7087—0.7094)	18.1 (0.71)
	Carrier-to-pinion shaft clearance		0.016—0.052 (0.0006—0.0020)	0.1 (0.004)
	Driveshaft bore diameter		26.005—26.025 (1.0238—1.0246)	—
	Carrier-to-driveshaft clearance		0.020—0.066 (0.0010—0.0026)	0.12 (0.005)
Differential pinion gear	Backlash		0.05—0.15 (0.002—0.006)	—
	Pinion gear bore diameter		18.041—18.061 (0.7103—0.7111)	—
	Pinion gear-to-pinion shaft clearance		0.057—0.095 (0.0022—0.0037)	0.15 (0.006)

Driveshaft — Section 18

* KY Type

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Driveshaft	Right and Left boot as installed		469.2—474.2 (18.5—18.7)	—
	* Right boot	As installed	471—476 (18.5—18.7)	—
	* Left boot	As installed	771—776 (30.4—30.6)	—

Steering — Section 19

* KY Type

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Steering wheel	Play		10.0(0.39)Max	—
	Pinion-starting torque N-m(kg-m, lb-ft)		0.4—1.4 (0.04—0.14, 0.29—1.01) * 0.5—1.7 (0.03—0.19, 0.36—1.23)	—

Suspension—Section 20

	MEASUREMENT			STANDARD(NEW)		SERVICE LIMIT
Wheel alignment	Camber		EC	Front -10°10'±1°	Rear -0°45'±15'	
	Caster		KY	0°20'±1°		
	Toe-in		EC KY	2°50'±1° 2°15'±1°		
	Steering angle	R/L	Inside Outside	0±3 (0±0.118)	2±2 (0.079±0.79)	
Wheel	Rim runout	Steel	Axial	41°30'±2° 34°30'±2°		
			Radial	0—1.0(0—0.039)		—
		Alumium	Axial	0—1.0(0—0.039)		—
			Radial	0—0.7(0—0.028) 0—0.7(0—0.028)		—
Front spring	Clearance btween wheel arch and ground		EC	639 (25.2)		624—654 (24.6—25.1)
			KY	659 (25.9)		644—674(25.4—26.5)

Brake—Section 21

	MEASUREMENT			STANDARD(NEW)		SERVICE LIMIT	
Parking brake lever	Play stroke 200N(20kg, 44 lbs)			To be locked when pulled 4—8notches			
Foot brake pedal	Pedal height Free play			174(6.8)to floor 1—5(0.04—0.20)		5(0.20)	
Master cylinder	Piston-to-push rod clearance			0—0.4(0—0.016)			
Brake drum	I.D.			180 (7.09)		181 (7.13)	
Lining	Thickness			4.5 (0.18)		2.0 (0.08)	
Disc brake	Disc thickness		EC	19.0(0.75)		17.0(0.67)	
			KY	12.0(0.47)		10.0(0.39) (0.31)	
	Disc runout			0—0.1(0.004)		0—0.1(0.004)	
	Disc parallellism			0.007(0.0003)		0.15 (0.0006)	
	Pad thickness		EC	10.0 (0.39)		1.6 (0.06)	
			KY	9.5 (0.37)		1.6 (0.06)	
Brake Booster	Charctjmistic	Vacuum(mmHg)		Pedal Pressure kg(lbs)		Line Pressure kg/cm²(psi)	
						EC	KY
		0		20(44)		15(213)min	16(228)min
		300		20(44)		47(668) min	46(654)min
		500		20(44)		67(953)min	66(939)min

Standards and Service Limits(cont'd)

Engine Electrical — Section 25, 26, 27 and 28

*EW2 Engine

Engine Electrical — Section 25, 26, 27 and 28 —

*W2 Engine

MEASUREMENT		STANDARD (NEW)			
Ignition coil	Rated voltage Performance winding resistance Secondary winding resistance	12 Volts 1.24—1.46 ohms *1.215—1.485 ohms 8,000—12,000 ohms *9,040—13,560 ohms			
Ignition wire	Resistance	25,000 ohms max			
Spark plug	Type Standard	NGK : BCP6EY-11,BCPR6EY-N11, BCP6E-11, *BP6EY-11 ND : Q20PR-U11, *W20EX-U11			
	Gap	1.0—1.1(0.039—0.043)			
Ignition timing	At idling	20±2°BTDC, KS:10±2°BTDC KX:17±2° BTDC *16±2° BTDC			
Battery	Lighting capacity (20-hour ratio) Starting capacity (5-specond ratio)	47,45 Ampere Hours 8.4 V minimum at 300 Ampere draw			
Alternator		ND			
	Output	14V/65A at 6,000 min ⁻¹ (rpm)			
	Coil resistance (rotor)	2.9 ohm	2.8—3.0 ohms		
	Slip ring O.D. Brush length Brush spring tension	14.4 (0.57) 10.5 (0.41) 330g (11.6 oz)	13.5 (0.53) 5.5 (0.22) 200g (7.05 oz)		
Alternator belt	Deflection midway between pulleys/load	6—9 (0.24—0.35)/98N (10kg.22 lb) for used belt 4—6 (0.16—0.24)/98N (10 kg. 22 lb) after replacement of belt			
Starting motor		ND 1.0 KW 1.4 KW		MITSUBA 1.0 KW 1.4 KW	
	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT	STANDARD (NEW)	SERVICE LIMIT
	Mica depth	0.4—0.8 (0.016—0.031)	0.2 (0.008)	0.4—0.5 (0.016—0.020)	0.15 (0.006)
	Commutator	0—0.02 (0.0008)	0.05 (0.002)	0—0.02 (0.0008)	0.05 (0.002)
	Commutator O.D.	30.0 (1.18)	29.0 (1.14)	28.0 (1.10)	27.5 (1.08)
	Brush length	12.5—13.5 (0.49—0.53)	8.5 (0.33)	14.3—14.7 (0.56—0.58)	9.3 (0.37)
	Spring pressure (new)	1.75 kg (3.8 lb)	—	2.1 kg (4.6 lb)	—