

Standards and Service Limits

Differential Section 15

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Differential oil	Capacity ℓ (US qt, Imp qt)	1.10 (1.16, 0.97) for overhaul 1.05 (1.11, 0.92) for oil change	
Differential carrier	Pinion shaft contact area I.D. Carrier-to-pinion shaft clearance Driveshaft contact area I.D. Carrier-to-driveshaft clearance Carrier-to-half shaft clearance	20.000–20.021 (0.787–0.788) 0.013–0.050 (0.001–0.002) 32.025–32.045 (1.261–1.262) 0.045–0.086 (0.002–0.003) 0.080–0.116 (0.003–0.005)	— 0.1 (0.004) — 0.120 (0.005) 0.120 (0.005)
Differential pinion gear	Backlash I.D. Pinion gear-to-shaft clearance	0.05–0.15 (0.002–0.006) 20.042–20.066 (0.789–0.790) 0.055–0.095 (0.002–0.004)	0.30 (0.012) — 0.15 (0.006)
Hypoid pinion gear and hypoid ring gear	Backlash at inspection hole at ring gear circumference	0.06–0.14 (0.002–0.006) 0.08–0.18 (0.003–0.007)	Adjust with a shim Adjust with a shim
Hypoid pinion	Preload N·m (kg·cm, lb·in) M/T New bearing Reused bearing A/T New bearing Reused bearing	 0.93–1.57 (9.3–15.7, 8.1–13.6) 0.72–1.21 (7.2–12.1, 6.2–10.5) 1.86–2.54 (18.6–25.4, 16.1–22.0) 1.45–1.95 (14.5–19.5, 1.26–16.9)	Adjust with a shim
Hypoid pinion and differential unit	Total preload N·m (kg·cm, lb·in) M/T ① ② ③ ④ A/T ① ② ③ ④	 Tp+0.55–0.78(5.5–7.8, 4.8–6.8) Tp+0.55–0.78(5.5–7.8, 4.8–6.8) Tp+0.65–0.79(6.5–7.9, 5.6–6.9) Tp+0.65–0.79(6.5–7.9, 5.6–6.9) Tp+1.06–1.28(10.6–12.8, 9.2–11.1) Tp+1.06–1.28(10.6–12.8, 9.2–11.1) Tp+0.96–1.09(9.6–10.9, 8.3–9.5) Tp+0.96–1.09(9.6–10.9, 8.3–9.5)	Adjust with a shim

- ①: Pinion and ring gear bearings are new.
 ②: Ring gear bearing is new.
 ③: Pinion bearing is new.
 ④: Pinion and ring gear bearings are reused.
 Tp: Actual measurement of pinion preload.