

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 and intermediate shaft contact area I.D. Carrier-to-driveshaft clearance Carrier-to-intermediate shaft clearance	20.000–20.021 (0.7874–0.7882) 0.013–0.050 (0.0005–0.0020) 32.025–32.045 (1.2608–1.2616) 0.045–0.086 (0.0018–0.0034) 0.080–0.116 (0.0031–0.0046)	— 0.1 (0.004) — 0.120 (0.0047) 0.120 (0.0047)
Differential pinion gear	Backlash I.D. Pinion gear-to-shaft clearance	0.05–0.15 (0.002–0.006) 20.042–20.066 (0.7891–0.7900) 0.055–0.095 (0.0022–0.0037)	0.30 (0.012) — 0.15 (0.006)
Drive pinion gear and 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
Drive 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, 12.6–16.9)	Adjust with a shim
Drive pinion and differential unit	Total preload N·m (kg·cm, lb·in) M/T ① ② ③ ④ A/T ① ② ③ ④	 1.48–2.35 (14.8–23.5, 12.8–20.4) 1.37–2.00 (13.7–20.0, 11.9–17.4) 1.27–1.99 (12.7–19.9, 11.0–17.3) 1.58–2.36 (15.8–23.6, 13.7–20.5) 2.92–3.82 (29.2–38.2, 25.3–33.2) 2.41–3.04 (24.1–30.4, 20.9–26.4) 2.51–3.23 (25.1–32.3, 21.8–28.0) 2.82–3.63 (28.2–36.3, 24.5–31.5)	Adjust with a shim

- ①: New bearings
 ②: Reused bearings
 ③: Replace only the bearing on the ring gear side
 ④: Replace only the bearing on the drive pinion side