

Standards and Service Limits

Differential — Section 15

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Differential oil	Capacity ℓ (US qt)	1.10 (1.16) for overhaul 1.05 (1.11) 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	0.06 – 0.14 (0.002 – 0.006)	Adjust with a shim
Drive pinion	Preload N·m (kgf·cm, lbf·in) New bearing Reused bearing	1.82 – 2.49 (18.6 – 25.4, 16.1 – 22.0) 1.42 – 1.91 (14.5 – 19.5, 12.6 – 16.9)	
Drive pinion and differential carrier	Total preload N·m (kgf·cm, lbf·in) New differential carrier tapered roller bearing Reused differential carrier tapered roller bearing	 Tp* + 1.04 – 1.26 (10.6 – 12.8, 9.2 – 11.1) Tp* + 0.94 – 1.07 (9.6 – 10.9, 8.3 – 9.46)	Adjust with a shim

Tp*: Actual measurement of drive pinion preload.