DIFFERENTIAL

SERVICE DATA

031J0–03

Rear differential	Carrier oil seal drive in depth	2.0 ± 0.3 mm (0.079 ± 0.012 in.)
	Side gear shaft oil seal drive in depth	0 ± 0.5mm (0 ± 0.019 in.)
	Companion flange vertical runout	0.10 mm (0.0039 in.) or less
	Companion flange horizontal runout	0.10 mm (0.0039 in.) or less
	Ring gear runout	0.07 mm (0.0028 in.) or less
	Side gear backlash	0.05 to 0.20 mm (0.0020 to 0.0079 in.)
	Drive pinion to ring gear backlash	0.13 to 0.18 mm (0.0051 to 0.0071 in.)
	Drive pinion preload (at starting) New bearing Reused bearing	1.1 to 1.7 N·m (11 to 17 kgf·cm, 9.6 to 14.8 in.·lbf) 0.6 to 0.9 N·m (6 to 9 kgf·cm, 5.2 to 7.8 in.·lbf)
	Total preload (Drive pinion preload plus)	0.3 to 0.5 N·m (3 to 5 kgf·cm, 2.6 to 4.3 in.·lbf)
	Side gear thrust washer thickness mm (in.)	0.93 to 0.97 (0.0366 to 0.0382) 0.98 to 1.02 (0.0386 to 0.0402) 1.03 to 1.07 (0.0406 to 0.0421) 1.08 to 1.12 (0.0425 to 0.0441) 1.13 to 1.17 (0.0445 to 0.0461) 1.18 to 1.22 (0.0465 to 0.0480) 1.23 to 1.27 (0.0484 to 0.0500) 1.28 to 1.32 (0.0504 to 0.0520) 1.33 to 1.37 (0.0524 to 0.0539) 1.38 to 1.42 (0.0543 to 0.0559)
	Drive pinion plate washer thickness mm (in.)	2.26 to 2.28 (0.0890 to 0.0898) 2.29 to 2.31 (0.0902 to 0.0909) 2.32 to 2.34 (0.0913 to 0.0921) 2.35 to 2.37 (0.0925 to 0.0933) 2.38 to 2.40 (0.0937 to 0.0945) 2.41 to 2.43 (0.0949 to 0.0957) 2.44 to 2.46 (0.0961 to 0.0969) 2.47 to 2.49 (0.0972 to 0.0980) 2.50 to 2.52 (0.0984 to 0.0992) 2.53 to 2.55 (0.0996 to 0.1004) 2.56 to 2.58 (0.1008 to 0.1016) 2.59 to 2.61 (0.1020 to 0.1028) 2.62 to 2.64 (0.1031 to 0.1039) 2.65 to 2.67 (0.1043 to 0.1051) 2.68 to 2.70 (0.1055 to 0.1063)

Rear differential	Side gear shaft plate washer thickness mm (in.)	2.21 to 2.23 (0.0870 to 0.0878) 2.24 to 2.26 (0.0882 to 0.0890) 2.27 to 2.29 (0.0894 to 0.0902) 2.30 to 2.32 (0.0906 to 0.0913) 2.33 to 2.35 (0.0917 to 0.0925) 2.36 to 2.38 (0.0929 to 0.0937) 2.39 to 2.41 (0.0941 to 0.0949) 2.42 to 2.44 (0.0953 to 0.0961) 2.45 to 2.47 (0.0965 to 0.0972) 2.48 to 2.50 (0.0976 to 0.0984) 2.51 to 2.53 (0.0988 to 0.0996) 2.54 to 2.56 (0.1000 to 0.1008) 2.57 to 2.59 (0.1012 to 0.1020) 2.60 to 2.62 (0.1024 to 0.1031) 2.63 to 2.65 (0.1035 to 0.1043) 2.66 to 2.68 (0.1047 to 0.1055) 2.69 to 2.71 (0.1059 to 0.1067) 2.72 to 2.74 (0.1071 to 0.1079) 2.75 to 2.77 (0.1083 to 0.1091) 2.78 to 2.80 (0.1094 to 0.1102) 2.81 to 2.83 (0.1106 to 0.1114) 2.84 to 2.86 (0.1118 to 0.1126) 2.87 to 2.89 (0.1130 to 0.1138) 2.90 to 2.92 (0.1142 to 0.1150) 2.93 to 2.95 (0.1154 to 0.1161) 2.96 to 2.98 (0.1165 to 0.1173) 2.99 to 3.01 (0.1177 to 0.1185) 3.02 to 3.04 (0.1189 to 0.1197) 3.05 to 3.07 (0.1201 to 0.1209) 3.08 to 3.10 (0.1213 to 0.1220) 3.11 to 3.13 (0.1224 to 0.1232) 3.14 to 3.16 (0.1236 to 0.1244) 3.17 to 3.19 (0.1248 to 0.1256) 3.20 to 3.22 (0.1260 to 0.1268)