# DIFFERENTIAL

## SERVICE DATA



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| 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 +- 0.5 mm (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 | 1.1 to 1.7 N*m (11 to 17 kgf*cm, 9.6 to 14.8 in.*lbf) |
| | | Reused bearing | 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) |
| Rear differential | 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) |
| Rear differential | 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) |

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| 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) |