

# DIFFERENTIAL

## SERVICE DATA

03132-03

Differential carrier assy front (1GR-FE (4WD))	Differential drive pinion preload (at starting)		
		New bearing	0.98 - 1.57 N-m (10 - 16 kgf-cm, 8.7 - 13.9 in.-lbf)
		Reused bearing	0.49 - 0.78 N-m (5 - 8 kgf-cm, 4.3 - 6.9 in.-lbf)
	Total preload (at starting)	Drive pinion preload plus	0.20 - 0.63 N-m (2.0 - 6.4 kgf-cm, 1.8 - 5.6 in.-lbf)
	Differential ring gear backlash		0.11 - 0.18 mm (0.0043 - 0.0071 in.)
	Differential side gear backlash		0 - 0.15 mm (0 - 0.00591 in.)
	Front differential carrier oil seal	Oil seal drive in depth	4.35 ± 0.45 mm (0.171 ± 0.018 in.)
	Front differential side oil seal	Oil seal drive in depth	0 ± 0.45 mm (0 ± 0.0177 in.)
	Front differential side tube oil seal	Oil seal drive in depth	5.3 ± 0.5 mm (0.2087 ± 0.0197 in.)
	Front differential side gear needle roller bearing	Bearing press in depth	1.7 ± 0.3 mm (0.067 ± 0.012 in.)
	Differential clutch sleeve and clutch sleeve hork clearance	Max.	0.35 mm (0.0138 in.)
	Front differential side gear thrust washer thickness		1.48 - 1.52 mm (0.0583 - 0.0598 in.) 1.53 - 1.57 mm (0.0602 - 0.0618 in.) 1.58 - 1.62 mm (0.0622 - 0.0638 in.) 1.63 - 1.67 mm (0.0642 - 0.0657 in.) 1.68 - 1.72 mm (0.0661 - 0.0677 in.) 1.73 - 1.77 mm (0.0681 - 0.0697 in.) 1.78 - 1.82 mm (0.0701 - 0.0717 in.) 1.83 - 1.87 mm (0.0720 - 0.0736 in.) 1.88 - 1.92 mm (0.0740 - 0.0756 in.)
	Front differential ring gear thrust washer thickness		1.59 - 1.61 mm (0.0626 - 0.0634 in.) 1.62 - 1.64 mm (0.0638 - 0.0646 in.) 1.65 - 1.67 mm (0.0650 - 0.0657 in.) 1.68 - 1.70 mm (0.0661 - 0.0669 in.) 1.71 - 1.73 mm (0.0673 - 0.0681 in.) 1.74 - 1.76 mm (0.0685 - 0.0693 in.) 1.77 - 1.79 mm (0.0697 - 0.0705 in.) 1.80 - 1.82 mm (0.0709 - 0.0717 in.) 1.83 - 1.85 mm (0.0720 - 0.0728 in.) 1.86 - 1.88 mm (0.0732 - 0.0740 in.) 1.89 - 1.91 mm (0.0744 - 0.0752 in.) 1.92 - 1.94 mm (0.0756 - 0.0764 in.) 1.95 - 1.97 mm (0.0768 - 0.0776 in.) 1.98 - 2.00 mm (0.0780 - 0.0787 in.) 2.01 - 2.03 mm (0.0791 - 0.0800 in.) 2.04 - 2.06 mm (0.0803 - 0.0811 in.) 2.07 - 2.09 mm (0.0815 - 0.0823 in.) 2.10 - 2.12 mm (0.0827 - 0.0835 in.) 2.13 - 2.15 mm (0.0839 - 0.0846 in.) 2.16 - 2.18 mm (0.0850 - 0.0858 in.) 2.19 - 2.21 mm (0.0862 - 0.0870 in.) 2.22 - 2.24 mm (0.0874 - 0.0882 in.) 2.25 - 2.27 mm (0.0886 - 0.0894 in.) 2.28 - 2.30 mm (0.0898 - 0.0906 in.) 2.31 - 2.33 mm (0.0909 - 0.0917 in.) 2.34 - 2.36 mm (0.0921 - 0.0929 in.) 2.37 - 2.39 mm (0.0933 - 0.0941 in.) 2.40 - 2.42 mm (0.0945 - 0.0953 in.) 2.43 - 2.45 mm (0.0957 - 0.0965 in.) 2.46 - 2.48 mm (0.0969 - 0.0976 in.)

SERVICE SPECIFICATIONS - DIFFERENTIAL

<p>Differential carrier assy front (1GR-FE (4WD))</p>	<p>Rear differential drive pinion plate washer thickness</p>	<p>1.69 - 1.71 mm (0.0665 - 0.0673 in.)                      1.72 - 1.74 mm (0.0677 - 0.0685 in.)                      1.75 - 1.77 mm (0.0689 - 0.0697 in.)                      1.78 - 1.80 mm (0.0701 - 0.0709 in.)                      1.81 - 1.83 mm (0.0713 - 0.0720 in.)                      1.84 - 1.86 mm (0.0724 - 0.0732 in.)                      1.87 - 1.89 mm (0.0736 - 0.0744 in.)                      1.90 - 1.92 mm (0.0748 - 0.0756 in.)                      1.93 - 1.95 mm (0.0760 - 0.0768 in.)                      1.96 - 1.98 mm (0.0772 - 0.0780 in.)                      1.99 - 2.01 mm (0.0783 - 0.0791 in.)                      2.02 - 2.04 mm (0.0795 - 0.0803 in.)                      2.05 - 2.07 mm (0.0807 - 0.0815 in.)                      2.08 - 2.10 mm (0.0819 - 0.0827 in.)                      2.11 - 2.13 mm (0.0831 - 0.0839 in.)                      2.14 - 2.16 mm (0.0843 - 0.0850 in.)                      2.17 - 2.19 mm (0.0854 - 0.0862 in.)                      2.20 - 2.22 mm (0.0866 - 0.0874 in.)                      2.23 - 2.25 mm (0.0878 - 0.0886 in.)                      2.26 - 2.28 mm (0.0890 - 0.0898 in.)                      2.29 - 2.31 mm (0.0902 - 0.0909 in.)                      2.32 - 2.34 mm (0.0913 - 0.0921 in.)</p>
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