

SUSPENSION AND AXLE

SERVICE DATA

SS0FD-02

Cold tire inflation pressure	Europe and middle east (tire size: 225/55R16 94V) Less than 160 km/h (100 mph)	*1Front *1Rear *2Front *2Rear	220 kPa (2.2 kgf/cm ² , 32 psi) 220 kPa (2.2 kgf/cm ² , 32 psi) 240 kPa (2.4 kgf/cm ² , 35 psi) 250 kPa (2.6 kgf/cm ² , 36 psi)
	More than 160 km/h (100 mph)	*1Front *1Rear *2Front *2Rear	240 kPa (2.4 kgf/cm ² , 35 psi) 250 kPa (2.6 kgf/cm ² , 36 psi) 300 kPa (3.1 kgf/cm ² , 44 psi) 340 kPa (3.5 kgf/cm ² , 49 psi)
	Australia and others (tire size: 225/55R16 94V) Less than 140 km/h (87 mph)	*1Front *1Rear *2Front *2Rear	220 kPa (2.2 kgf/cm ² , 32 psi) 220 kPa (2.2 kgf/cm ² , 32 psi) 240 kPa (2.4 kgf/cm ² , 35 psi) 250 kPa (2.6 kgf/cm ² , 36 psi)
	More than 140 km/h (87 mph)	*1Front *1Rear *2Front *2Rear	240 kPa (2.4 kgf/cm ² , 35 psi) 270 kPa (2.8 kgf/cm ² , 39 psi) 300 kPa (3.1 kgf/cm ² , 44 psi) 340 kPa (3.5 kgf/cm ² , 49 psi)
Front wheel alignment	Vehicle height Tire size: 225/55R16	*3Front *4Rear	239 mm (9.41 in.) 225 mm (8.86 in.)
	Camber Left-right error		-0°18' ± 30' (-0.3° ± 0.5°) 30' (0.5°) or less
	Caster Left-right error		7°28' ± 30' (7.47° ± 0.5°) 30' (0.5°) or less
	Steering axis inclination Left-right error		8°54' ± 30' (8.9° ± 0.5°) 30' (0.5°) or less
	Toe-in (total) Rack end length difference		0°09' ± 12' (0.15° ± 0.2°, 1.5 ± 2 mm, 0.06 ± 0.08 in.) 1.5 mm (0.059 in.) or less
	Wheel angle Inside wheel Outside wheel: Reference		38°51' (36°51' - 39°51') 38.85° (36.85° - 39.85°) 32°08' 32.13°
Rear wheel alignment	Camber Left-right error		-0°30' ± 30' (-0.5° ± 0.5°) 30' (0.5°) or less
	Toe-in (total) Link and arm length difference		0°03' ± 12' (0.05° ± 0.2°, 0.5 ± 2 mm, 0.02 ± 0.08 in.) 4.0 mm (0.16 in.) or less
Front axle	Wheel bearing backlash		0.05 mm (0.0020 in.)
	Axle hub deviation		0.05 mm (0.0020 in.)

*1: Up to 4 passengers

*2: More than the 4 passengers

*3: Measure the distance from the ground to the center of the lower suspension arm mounting bolt.

*4: Measure the distance from the ground to the center of the No.2 lower suspension arm mounting bolt.

SERVICE SPECIFICATIONS – SUSPENSION AND AXLE

Front suspension	Upper ball joint turning torque		1.0 – 3.4 N·m (10 – 35 kgf·cm, 9 – 30 in.·lbf)
	Lower ball joint turning torque		0.1 – 3.0 N·m (1 – 30 kgf·cm, 0.9 – 26 in.·lbf)
	Lower ball joint excessive play		0.9 mm (0.035 in.)
	Stabilizer bar link ball joint turning torque		0.05 – 1.5 N·m (0.5 – 15 kgf·cm, 0.4 – 13 in.·lbf)
Rear axle	Wheel bearing backlash		0.05 mm (0.0020 in.)
	Axle hub deviation		0.07 mm (0.0028 in.)
Rear drive shaft	Drive shaft length	RH	598.5 mm (23.563 in.)
		LH	553.5 mm (21.791 in.)
Rear suspension	Upper ball joint turning torque		1.0 – 3.4 N·m (10 – 35 kgf·cm, 9 – 30 in.·lbf)
	Toe control link ball joint turning torque		1.0 – 2.5 N·m (10 – 25 kgf·cm, 9 – 22 in.·lbf)
	Stabilizer bar link ball joint turning torque		0.05 – 1.0 N·m (0.5 – 10 kgf·cm, 0.4 – 9 in.·lbf)
Rear differential	Drive pinion shaft runout	Maximum	0.08 mm (0.0031 in.)
	Ring gear runout	Maximum	0.05 mm (0.0020 in.)
	Ring gear backlash	Maximum	0.08 – 0.13 mm (0.0031 – 0.0051 in.)
	Drive pinion bearing (at starting)	New bearing	1.5 – 1.8 N·m (15 – 18 kgf·cm, 13.0 – 15.6 in.·lbf)
		Reused bearing	0.5 – 0.8 N·m (5 – 8 kgf·cm, 4.3 – 6.9 in.·lbf)
	Total preload (at starting)		Drive pinion preload plus 0.5 – 0.8 N·m (5 – 8 kgf·cm, 4.3 – 6.9 in.·lbf)
	Pinion gear backlash	Maximum	0.15 mm (0.0059 in.)
	Pinion gear backlash adjusting thrust washer		1.50 mm (0.059 in.)
			1.55 mm (0.061 in.)
			1.60 mm (0.063 in.)
			1.65 mm (0.065 in.)
			1.70 mm (0.067 in.)
			1.75 mm (0.069 in.)
			1.80 mm (0.071 in.)
			1.85 mm (0.073 in.)
			1.90 mm (0.075 in.)

Rear differential (con't)	Ring gear backlash adjusting washer	No.	
		02	2.02 mm (0.0795 in.)
		04	2.04 mm (0.0803 in.)
		06	2.06 mm (0.0811 in.)
		08	2.08 mm (0.0819 in.)
		10	2.10 mm (0.0827 in.)
		12	2.12 mm (0.0835 in.)
		14	2.14 mm (0.0843 in.)
		16	2.16 mm (0.0850 in.)
		18	2.18 mm (0.0858 in.)
		20	2.20 mm (0.0866 in.)
		22	2.22 mm (0.0874 in.)
		24	2.24 mm (0.0882 in.)
		26	2.26 mm (0.0890 in.)
		28	2.28 mm (0.0898 in.)
		30	2.30 mm (0.0906 in.)
		32	2.32 mm (0.0913 in.)
		34	2.34 mm (0.0921 in.)
		36	2.36 mm (0.0929 in.)
		38	2.38 mm (0.0937 in.)
		40	2.40 mm (0.0945 in.)
		42	2.42 mm (0.0953 in.)
		44	2.44 mm (0.0961 in.)
		46	2.46 mm (0.0969 in.)
		48	2.48 mm (0.0976 in.)
		50	2.50 mm (0.0984 in.)
		52	2.52 mm (0.0992 in.)
		54	2.54 mm (0.1000 in.)
		56	2.56 mm (0.1008 in.)
		58	2.58 mm (0.1016 in.)
		60	2.60 mm (0.1024 in.)
		62	2.62 mm (0.1031 in.)
		64	2.64 mm (0.1039 in.)
		66	2.66 mm (0.1047 in.)
		68	2.68 mm (0.1055 in.)
		70	2.70 mm (0.1063 in.)
		72	2.72 mm (0.1071 in.)
		74	2.74 mm (0.1079 in.)
		76	2.76 mm (0.1087 in.)
		78	2.78 mm (0.1094 in.)
		80	2.80 mm (0.1102 in.)
		82	2.82 mm (0.1100 in.)
		84	2.84 mm (0.1118 in.)
		86	2.86 mm (0.1126 in.)

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Rear differential (con't)	Tooth contact pattern adjusting washer	No.	
		87	1.87 mm (0.0736 in.)
		88	1.88 mm (0.0740 in.)
		89	1.89 mm (0.0744 in.)
		90	1.90 mm (0.0748 in.)
		91	1.91 mm (0.0752 in.)
		92	1.92 mm (0.0756 in.)
		93	1.93 mm (0.0760 in.)
		94	1.94 mm (0.0764 in.)
		95	1.95 mm (0.0768 in.)
		96	1.96 mm (0.0772 in.)
		97	1.97 mm (0.0776 in.)
		98	1.98 mm (0.0780 in.)
		99	1.99 mm (0.0784 in.)
		00	2.00 mm (0.0788 in.)
		01	2.01 mm (0.0791 in.)
		02	2.02 mm (0.0795 in.)
		03	2.03 mm (0.0799 in.)
		04	2.04 mm (0.0803 in.)
		05	2.05 mm (0.0807 in.)
		06	2.06 mm (0.0811 in.)
		07	2.07 mm (0.0815 in.)
		08	2.08 mm (0.0819 in.)
		09	2.09 mm (0.0823 in.)
		10	2.10 mm (0.0827 in.)
		11	2.11 mm (0.0831 in.)
		12	2.12 mm (0.0835 in.)
		13	2.13 mm (0.0839 in.)
		14	2.14 mm (0.0843 in.)
		15	2.15 mm (0.0846 in.)
		16	2.16 mm (0.0850 in.)
		17	2.17 mm (0.0854 in.)
		18	2.18 mm (0.0858 in.)
		19	2.19 mm (0.0862 in.)
		20	2.20 mm (0.0866 in.)
		21	2.21 mm (0.0870 in.)
		22	2.22 mm (0.0874 in.)
		23	2.23 mm (0.0878 in.)
		24	2.24 mm (0.0882 in.)
		25	2.25 mm (0.0886 in.)
		26	2.26 mm (0.0890 in.)
		27	2.27 mm (0.0894 in.)
		28	2.28 mm (0.0898 in.)