

SUSPENSION AND AXLE

SERVICE DATA

SS0FD-11

Cold tire inflation pressure (SEDAN)	Tire size: 215/45ZR17 or P205/55R16 89V	Front*1	230 kPa (2.3 kgf/cm ² , 33 psi)
		Rear*1	230 kPa (2.3 kgf/cm ² , 33 psi)
		Front*2	300 kPa (3.0 kgf/cm ² , 44 psi)
		Rear*2	300 kPa (3.0 kgf/cm ² , 44 psi)
Cold tire inflation pressure (WAGON)	Tire size: 215/45ZR17	Front*1	230 kPa (2.3 kgf/cm ² , 33 psi)
		Front*2	300 kPa (3.0 kgf/cm ² , 44 psi)
	Tire size: 225/45ZR17	Rear*1	240 kPa (2.4 kgf/cm ² , 35 psi)
		Rear*2	310 kPa (3.1 kgf/cm ² , 45 psi)
	Tire size: P205/55R16 89V	Front*1	230 kPa (2.3 kgf/cm ² , 33 psi)
		Rear*1	230 kPa (2.3 kgf/cm ² , 33 psi)
		Front*2	300 kPa (3.0 kgf/cm ² , 44 psi)
		Rear*2	320 kPa (3.2 kgf/cm ² , 46 psi)
Front wheel alignment (SEDAN, Canada)	Vehicle height	Front: B*4 - A*3	66 mm (2.60 in.)
		Rear: C*5 - D*6	66 mm (2.60 in.)
	Camber	Right-left error	-0°21' ± 30' (-0.35° ± 0.5°)
			30' (0.5°) or less
	Caster	Right-left error	5°46' ± 30' (5.77° ± 0.5°)
			30' (0.5°) or less
	Steering axis inclination	Right-left error	9°16' ± 30' (9.27° ± 0.5°)
			30' (0.5°) or less
Front wheel alignment (SEDAN, Except Canada)	Toe-in (total)		0°06' ± 12' (0.1° ± 0.2°, 1 ± 2 mm, 0.04 ± 0.08 in.)
		Rack end length difference	1.5 mm (0.059 in.) or less
	Wheel angle	Inside wheel	41°02' (39°02' - 42°02')
			41.03° (39.03° - 42.03°)
		Outside wheel: Reference	33°30'
			33.5°
	Vehicle height	Front: B*4 - A*3	72 mm (2.83 in.)
		Rear: C*5 - D*6	85 mm (3.35 in.)
Front wheel alignment (SEDAN, Except Canada)	Camber	Right-left error	-0°30' ± 30' (-0.5° ± 0.5°)
			30' (0.5°) or less
	Caster	Right-left error	6°07' ± 30' (6.12° ± 0.5°)
			30' (0.5°) or less
	Steering axis inclination	Right-left error	9°25' ± 30' (9.42° ± 0.5°)
			30' (0.5°) or less
	Toe-in (total)		0°06' ± 12' (0.1° ± 0.2°, 1 ± 2 mm, 0.04 ± 0.08 in.)
		Rack end length difference	1.5 mm (0.059 in.) or less
	Wheel angle	Inside wheel	41°01' (39°01' - 42°01')
			41.02° (39.02° - 42.02°)
		Outside wheel: Reference	33°23'
			33.38°

Front wheel alignment (WAGON, Canada)	Vehicle height	Front: B*4 - A*3 Rear: C*5 - D*6	56 mm (2.20 in.) 58 mm (2.28 in.)
	Camber	Right-left error	-0°05' ± 30' (-0.08° ± 0.5°) 30' (0.5°) or less
	Caster	Right-left error	5°31' ± 30' (5.52° ± 0.5°) 30' (0.5°) or less
	Steering axis inclination	Right-left error	8°59' ± 30' (8.98° ± 0.5°) 30' (0.5°) or less
	Toe-in (total)	Rack end length difference	0°06' ± 12' (0.1° ± 0.2°, 1 ± 2 mm, 0.04 ± 0.08 in.) 1.5 mm (0.059 in.) or less
	Wheel angle	Inside wheel Outside wheel: Reference	41°03' (39°03' - 42°03') 41.05° (39.05° - 42.05°) 33°40' 33.6°
Front wheel alignment (WAGON, Except Canada)	Vehicle height	Front: B*4 - A*3 Rear: C*5 - D*6	66 mm (2.60 in.) 66 mm (2.60 in.)
	Camber	Right-left error	-0°21' ± 30' (-0.35° ± 0.5°) 30' (0.5°) or less
	Caster	Right-left error	5°46' ± 30' (5.77° ± 0.5°) 30' (0.5°) or less
	Steering axis inclination	Right-left error	9°16' ± 30' (9.27° ± 0.5°) 30' (0.5°) or less
	Toe-in (total)	Rack end length difference	0°06' ± 12' (0.1° ± 0.2°, 1 ± 2 mm, 0.04 ± 0.08 in.) 1.5 mm (0.059 in.) or less
	Wheel angle	Inside wheel Outside wheel: Reference	41°02' (39°02' - 42°02') 41.03° (39.03° - 42.03°) 33°30' 33.5°
Rear wheel alignment (SEDAN, Canada)	Camber	Right-left error	-0°23' ± 30' (-0.38° ± 0.5°) 30' (0.5°) or less
	Toe-in (total)	Right and left length difference	0°12' ± 12' (0.2° ± 0.2°, 2 ± 2 mm, 0.08 ± 0.08 in.) 4.0 mm (0.157 in.) or less
Rear wheel alignment (SEDAN, Except Canada)	Camber	Right-left error	-0°55' ± 30' (-0.92° ± 0.5°) 30' (0.5°) or less
	Toe-in (total)	Right and left length difference	0°12' ± 12' (0.2° ± 0.2°, 2 ± 2 mm, 0.08 ± 0.08 in.) 4.0 mm (0.157 in.) or less
Rear wheel alignment (WAGON, Canada)	Camber	Right-left error	-0°04' ± 30' (-0.07° ± 0.5°) 30' (0.5°) or less
	Toe-in (total)	Right and left length difference	0°12' ± 12' (0.2° ± 0.2°, 2 ± 2 mm, 0.08 ± 0.08 in.) 4.0 mm (0.157 in.) or less
Rear wheel alignment (WAGON, Except Canada)	Camber	Right-left error	-0°23' ± 30' (-0.38° ± 0.5°) 30' (0.5°) or less
	Toe-in (total)	Right and left length difference	0°12' ± 12' (0.2° ± 0.2°, 2 ± 2 mm, 0.08 ± 0.08 in.) 4.0 mm (0.157 in.) or less

*1: For driving under 160 km/h (100 mph)

*2: For driving at 160 km/h (100 mph) or over

*3: Ground clearance of the front No. 1 lower suspension arm mounting bolt center.

*4: Ground clearance of the front wheel center.

*5: Ground clearance of the rear wheel center.

*6: Ground clearance of the No. 2 lower suspension arm mounting bolt (Suspension member side) tail center.

SERVICE SPECIFICATIONS - SUSPENSION AND AXLE

Front axle	Wheel bearing backlash	Maximum	0.05 mm (0.0020 in.)
	Axle hub deviation	Maximum	0.05 mm (0.0020 in.)
Front suspension	Upper ball joint turning torque		1.0 - 3.4 N·m (10 - 35 kgf·cm, 9 - 30 in.·lbf)
	Lower ball joint excessive play	Maximum	0.9 mm (0.035 in.)
	Lower ball joint turning torque		0.5 - 3.0 N·m (5 - 30 kgf·cm, 0.4 - 26 in.·lbf)
	Stabilizer bar link ball joint turning torque		0.05 - 1.9 N·m (0.5 - 20 kgf·cm, 0.4 - 16 in.·lbf)
Rear axle	Wheel bearing backlash	Maximum	0.05 mm (0.0020 in.)
	Axle hub deviation	Maximum	0.07 mm (0.0028 in.)
Rear drive shaft	Drive shaft standard length		RH: 585.4 ± 5.0 mm (23.047 ± 0.197 in.) LH: 539.8 ± 5.0 mm (21.252 ± 0.197 in.)
Rear suspension	Upper ball joint turning torque		1.0 - 2.9 N·m (10 - 30 kgf·cm, 9 - 26 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 - 9.0 in.·lbf)
Rear differential	Companion flange vertical runout	Maximum	0.09 mm (0.0035 in.)
	Companion flange lateral runout	Maximum	0.09 mm (0.0035 in.)
	Ring gear runout	Maximum	0.07 mm (0.0028 in.)
	Ring gear backlash	Maximum	0.13 - 0.18 mm (0.0051 - 0.0071 in.)
	Drive pinion bearing (at starting)	New bearing Reused bearing	0.98 - 1.57 N·m (10 - 16 kgf·cm, 8.7 - 13.9 in.·lbf) 0.49 - 0.78 N·m (5 - 8 kgf·cm, 4.3 - 6.9 in.·lbf)
	Total preload (at starting)		Drive pinion preload plus 0.39 - 0.59 N·m (4 - 6 kgf·cm, 3.5 - 5.2 in.·lbf)
	Side gear backlash (2 pinion differential)		0.05 - 0.20 mm (0.0020 - 0.0079 in.)
	Differential case runout	Maximum	0.07 mm (0.0028 in.)
	Side gear shaft oil seal drive in depth		0 ± 0.50 mm (0 ± 0.0197 in.)
	Front oil seal drive in depth		2.00 ± 0.45 mm (0.0787 ± 0.0177 in.)
	Right and left side gear shafts standard distance		279.7 mm (11.012 in.) or less
	Pinion gear backlash adjusting thrust washer		1.6 mm (0.062 in.)
			1.7 mm (0.067 in.)
			1.8 mm (0.071 in.)
Rear differential	Drive pinion bearing adjusting washer thickness		1.70 mm (0.0669 in.) 1.73 mm (0.0681 in.) 1.76 mm (0.0693 in.) 1.79 mm (0.0704 in.) 1.82 mm (0.0717 in.) 1.85 mm (0.0729 in.) 1.88 mm (0.0740 in.) 1.91 mm (0.0752 in.) 1.94 mm (0.0764 in.) 1.97 mm (0.0776 in.) 2.00 mm (0.0787 in.) 2.03 mm (0.0799 in.) 2.06 mm (0.0811 in.) 2.09 mm (0.0822 in.) 2.12 mm (0.0835 in.) 2.15 mm (0.0847 in.) 2.18 mm (0.0858 in.) 2.21 mm (0.0870 in.) 2.24 mm (0.0882 in.) 2.27 mm (0.0894 in.) 2.30 mm (0.0906 in.) 2.33 mm (0.0918 in.)

Rear differential	Side bearing adjusting washer thickness	2.58 mm (0.1016 in.) 2.60 mm (0.1024 in.) 2.62 mm (0.1031 in.) 2.64 mm (0.1039 in.) 2.66 mm (0.1047 in.) 2.68 mm (0.1055 in.) 2.70 mm (0.1063 in.) 2.72 mm (0.1071 in.) 2.74 mm (0.1079 in.) 2.76 mm (0.1087 in.) 2.78 mm (0.1094 in.) 2.80 mm (0.1102 in.) 2.82 mm (0.1110 in.) 2.84 mm (0.1118 in.) 2.86 mm (0.1126 in.) 2.88 mm (0.1134 in.) 2.90 mm (0.1142 in.) 2.92 mm (0.1150 in.) 2.94 mm (0.1157 in.) 2.96 mm (0.1165 in.) 2.98 mm (0.1173 in.) 3.00 mm (0.1181 in.) 3.02 mm (0.1189 in.) 3.04 mm (0.1197 in.) 3.06 mm (0.1205 in.) 3.08 mm (0.1213 in.) 3.10 mm (0.1220 in.) 3.12 mm (0.1228 in.) 3.14 mm (0.1236 in.) 3.16 mm (0.1244 in.) 3.18 mm (0.1252 in.) 3.20 mm (0.1260 in.) 3.22 mm (0.1268 in.) 3.24 mm (0.1276 in.) 3.26 mm (0.1283 in.) 3.28 mm (0.1291 in.) 3.30 mm (0.1299 in.) 3.32 mm (0.1307 in.) 3.34 mm (0.1315 in.) 3.36 mm (0.1323 in.) 3.38 mm (0.1331 in.) 3.40 mm (0.1339 in.) 3.42 mm (0.1346 in.) 3.44 mm (0.1354 in.) 3.46 mm (0.1362 in.) 3.48 mm (0.1370 in.)
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