

SUSPENSION AND AXLE

SERVICE DATA

SS0FD-10

Cold tire inflation pressure (SEDAN, Europe)	Up to 4 passengers		
	Tire size 215/45ZR17	Front*1	280 kPa (2.8 kgf/cm ² , 41 psi)
		Rear*1	310 kPa (3.1 kgf/cm ² , 45 psi)
		Front*2	260 kPa (2.6 kgf/cm ² , 38 psi)
		Rear*2	270 kPa (2.7 kgf/cm ² , 39 psi)
		Front*3	230 kPa (2.3 kgf/cm ² , 33 psi)
		Rear*3	230 kPa (2.3 kgf/cm ² , 33 psi)
	205/55R16 89V	Front*1	260 kPa (2.6 kgf/cm ² , 38 psi)
		Rear*1	290 kPa (2.9 kgf/cm ² , 42 psi)
		Front*2	250 kPa (2.5 kgf/cm ² , 36 psi)
Rear*2		250 kPa (2.5 kgf/cm ² , 36 psi)	
Front*3		230 kPa (2.3 kgf/cm ² , 33 psi)	
Rear*3		230 kPa (2.3 kgf/cm ² , 33 psi)	
5 passengers			
Tire size 215/45ZR17	Front*1	330 kPa (3.3 kgf/cm ² , 48 psi)	
	Rear*1	350 kPa (3.5 kgf/cm ² , 51 psi)	
	Front*2	300 kPa (3.0 kgf/cm ² , 44 psi)	
	Rear*2	300 kPa (3.0 kgf/cm ² , 44 psi)	
	Front*3	250 kPa (2.5 kgf/cm ² , 36 psi)	
	Rear*3	250 kPa (2.5 kgf/cm ² , 36 psi)	
205/55R16 89V	Front*1	310 kPa (3.1 kgf/cm ² , 45 psi)	
	Rear*1	330 kPa (3.3 kgf/cm ² , 48 psi)	
	Front*2	280 kPa (2.8 kgf/cm ² , 41 psi)	
	Rear*2	280 kPa (2.8 kgf/cm ² , 41 psi)	
	Front*3	230 kPa (2.3 kgf/cm ² , 33 psi)	
	Rear*3	230 kPa (2.3 kgf/cm ² , 33 psi)	
Cold tire inflation pressure (SEDAN, Others)	Up to 4 passengers		
	Tire size 215/45ZR17	Front*4	280 kPa (2.8 kgf/cm ² , 41 psi)
		Rear*4	310 kPa (3.1 kgf/cm ² , 45 psi)
		Front*5	230 kPa (2.3 kgf/cm ² , 33 psi)
		Rear*5	230 kPa (2.3 kgf/cm ² , 33 psi)
	205/55R16 89V	Front*4	270 kPa (2.7 kgf/cm ² , 39 psi)
		Rear*4	290 kPa (2.9 kgf/cm ² , 42 psi)
		Front*5	220 kPa (2.2 kgf/cm ² , 32 psi)
		Rear*5	220 kPa (2.2 kgf/cm ² , 32 psi)
	5 passengers		
Tire size 215/45ZR17	Front*4	330 kPa (3.3 kgf/cm ² , 48 psi)	
	Rear*4	350 kPa (3.5 kgf/cm ² , 51 psi)	
	Front*5	250 kPa (2.5 kgf/cm ² , 36 psi)	
	Rear*5	250 kPa (2.5 kgf/cm ² , 36 psi)	
205/55R16 89V	Front*4	310 kPa (3.1 kgf/cm ² , 45 psi)	
	Rear*4	330 kPa (3.3 kgf/cm ² , 48 psi)	
	Front*5	230 kPa (2.3 kgf/cm ² , 33 psi)	
	Rear*5	230 kPa (2.3 kgf/cm ² , 33 psi)	

Cold tire inflation pressure (WAGON)	Up to 4 passengers			
	Tire size 215/45ZR17	Front*1	280 kPa (2.8 kgf/cm ² , 41 psi)	
		Front*2	260 kPa (2.6 kgf/cm ² , 38 psi)	
		Front*3	230 kPa (2.3 kgf/cm ² , 33 psi)	
	225/45ZR17	Rear*1	290 kPa (2.9 kgf/cm ² , 42 psi)	
		Rear*2	270 kPa (2.7 kgf/cm ² , 39 psi)	
		Rear*3	240 kPa (2.4 kgf/cm ² , 35 psi)	
	205/55R16 89V	Front*1	260 kPa (2.6 kgf/cm ² , 38 psi)	
		Rear*1	310 kPa (3.1 kgf/cm ² , 45 psi)	
		Front*2	250 kPa (2.5 kgf/cm ² , 36 psi)	
Rear*2		260 kPa (2.6 kgf/cm ² , 38 psi)		
Front*3		230 kPa (2.3 kgf/cm ² , 33 psi)		
Rear*3		230 kPa (2.3 kgf/cm ² , 33 psi)		
5 passengers				
Tire size 215/45ZR17	Front*1	330 kPa (3.3 kgf/cm ² , 48 psi)		
	Front*2	300 kPa (3.0 kgf/cm ² , 44 psi)		
	Front*3	250 kPa (2.5 kgf/cm ² , 36 psi)		
225/45ZR17	Rear*1	340 kPa (3.4 kgf/cm ² , 49 psi)		
	Rear*2	310 kPa (3.1 kgf/cm ² , 45 psi)		
	Rear*3	260 kPa (2.6 kgf/cm ² , 38 psi)		
205/55R16 89V	Front*1	310 kPa (3.1 kgf/cm ² , 45 psi)		
	Rear*1	330 kPa (3.3 kgf/cm ² , 48 psi)		
	Front*2	280 kPa (2.8 kgf/cm ² , 41 psi)		
	Rear*2	290 kPa (2.9 kgf/cm ² , 42 psi)		
	Front*3	230 kPa (2.3 kgf/cm ² , 33 psi)		
	Rear*3	240 kPa (2.4 kgf/cm ² , 35 psi)		
Front wheel alignment	Vehicle height (SEDAN) (Great Britain sports package) (China) (Except Great Britain sports package and China)	Front: B*7 - A*6	72 mm (2.83 in.)	
		Rear: C*8 - D*9	85 mm (3.35 in.)	
		Front: B*7 - A*6	56 mm (2.20 in.)	
		Rear: C*8 - D*9	66 mm (2.60 in.)	
		Front: B*7 - A*6	66 mm (2.60 in.)	
		Rear: C*8 - D*9	66 mm (2.60 in.)	
	Vehicle height (WAGON) (Great Britain sports package) (Except Great Britain sports package)	Front: B*7 - A*6	72 mm (2.83 in.)	
		Rear: C*8 - D*9	85 mm (3.35 in.)	
		Front: B*7 - A*6	66 mm (2.60 in.)	
		Rear: C*8 - D*9	66 mm (2.60 in.)	
		Camber (SEDAN) (Great Britain sports package) (China) (Except Great Britain sports package and China)	Right-left error	-0°30' ± 30' (-0.5° ± 0.5°)
				30' (0.5°) or less
Right-left error	-0°06' ± 30' (-0.10° ± 0.5°)			
	30' (0.5°) or less			
Right-left error	-0°21' ± 30' (-0.35° ± 0.5°)			
	30' (0.5°) or less			
Camber (WAGON) (Great Britain sports package) (Except Great Britain sports package)	Right-left error	-0°30' ± 30' (-0.5° ± 0.5°)		
		30' (0.5°) or less		
	Right-left error	-0°21' ± 30' (-0.35° ± 0.5°)		
		30' (0.5°) or less		

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Front wheel alignment	Caster (SEDAN) (Great Britain sports package)	Right-left error	$6^{\circ}07' \pm 30'$ ($6.12^{\circ} \pm 0.5^{\circ}$) 30' (0.5°) or less
	(China)	Right-left error	$5^{\circ}43' \pm 30'$ ($5.72^{\circ} \pm 0.5^{\circ}$) 30' (0.5°) or less
	(Except Great Britain sports package and China)	Right-left error	$5^{\circ}46' \pm 30'$ ($5.77^{\circ} \pm 0.5^{\circ}$) 30' (0.5°) or less
	Caster (WAGON) (Great Britain sports package)	Right-left error	$6^{\circ}07' \pm 30'$ ($6.12^{\circ} \pm 0.5^{\circ}$) 30' (0.5°) or less
	(Except Great Britain sports package)	Right-left error	$5^{\circ}46' \pm 30'$ ($5.77^{\circ} \pm 0.5^{\circ}$) 30' (0.5°) or less
	Steering axis inclination (SEDAN) (Great Britain sports package)	Right-left error	$9^{\circ}25' \pm 30'$ ($9.42^{\circ} \pm 0.5^{\circ}$) 30' (0.5°) or less
	(China)	Right-left error	$9^{\circ}01' \pm 30'$ ($9.02^{\circ} \pm 0.5^{\circ}$) 30' (0.5°) or less
	(Except Great Britain sports package and China)	Right-left error	$9^{\circ}16' \pm 30'$ ($9.27^{\circ} \pm 0.5^{\circ}$) 30' (0.5°) or less
	Caster (WAGON) (Great Britain sports package)	Right-left error	$9^{\circ}25' \pm 30'$ ($9.42^{\circ} \pm 0.5^{\circ}$) 30' (0.5°) or less
	(Except Great Britain sports package)	Right-left error	$9^{\circ}16' \pm 30'$ ($9.27^{\circ} \pm 0.5^{\circ}$) 30' (0.5°) or less
	Toe-in (total)		$0^{\circ}06' \pm 12'$ ($0.1^{\circ} \pm 0.2^{\circ}$) 1 ± 2 mm (0.04 ± 0.08 in.)
	Wheel angle (SEDAN) (Great Britain sports package)	Inside wheel	$41^{\circ}01'$ ($39^{\circ}01' - 42^{\circ}01'$) 41.02° ($39.02^{\circ} - 42.02^{\circ}$)
	Outside wheel: Reference	$33^{\circ}23'$ 33.38°	
(China)	Inside wheel	$41^{\circ}03'$ ($39^{\circ}03' - 42^{\circ}03'$) 41.05° ($39.05^{\circ} - 42.05^{\circ}$)	
	Outside wheel: Reference	$33^{\circ}40'$ 33.6°	
(Except Great Britain sports package and China)	Inside wheel	$41^{\circ}02'$ ($39^{\circ}02' - 42^{\circ}02'$) 41.03° ($39.03^{\circ} - 42.03^{\circ}$)	
	Outside wheel: Reference	$33^{\circ}30'$ 33.5°	
Caster (WAGON) (Great Britain sports package)	Inside wheel	$41^{\circ}01'$ ($39^{\circ}01' - 42^{\circ}01'$) 41.02° ($39.02^{\circ} - 42.02^{\circ}$)	
	Outside wheel: Reference	$33^{\circ}23'$ 33.38°	
(Except Great Britain sports package)	Inside wheel	$41^{\circ}02'$ ($39^{\circ}02' - 42^{\circ}02'$) 41.03° ($39.03^{\circ} - 42.03^{\circ}$)	
	Outside wheel: Reference	$33^{\circ}30'$ 33.5°	

Rear wheel alignment	Camber (SEDAN) (Great Britain sports package)	Right-left error	-0°55' ± 30' (-0.92° ± 0.5°) 30' (0.5°) or less
	(Except Great Britain sports package)	Right-left error	-0°23' ± 30' (-0.38° ± 0.5°) 30' (0.5°) or less
	Camber (WAGON) (Great Britain sports package)	Right-left error	-0°55' ± 30' (-0.92° ± 0.5°) 30' (0.5°) or less
	(Except Great Britain sports package)	Right-left error	-0°23' ± 30' (-0.38° ± 0.5°) 30' (0.5°) or less
	Toe-in (total)		0°12' ± 12' (0.2° ± 0.2°) 2 ± 2 mm (0.08 ± 0.08 in.)
Front suspension	Upper ball joint turning torque		1.0 - 3.4 N·m (10 - 35 kgf·cm, 9 - 30 in.·lbf)

*1: For driving at 210 km/h (131 mph) or over

*2: For driving at 160 km/h (100 mph) to 210 km/h (131 mph)

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

*4: For driving at 140 km/h (88 mph) or over

*5: For driving under 140 km/h (88 mph)

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

*7: Ground clearance of the front wheel center.

*8: Ground clearance of the rear wheel center.

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

Rear drive shaft (2JZ-GE)	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)	
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 (1G-FE) (2JZ-GE) Reused bearing (1G-FE) (2JZ-GE)		1.3 - 1.9 N·m (13 - 19 kgf·cm, 11.5 - 16.8 in.·lbf) 0.98 - 1.57 N·m (10 - 16 kgf·cm, 8.7 - 13.9 in.·lbf) 0.4 - 0.7 N·m (4 - 7 kgf·cm, 3.5 - 6.2 in.·lbf) 0.5 - 0.8 N·m (5 - 8 kgf·cm, 4.3 - 6.9 in.·lbf)
	Total preload (at starting)		Drive pinion preload plus 0.4 - 0.6 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.)	
	Pinion gear backlash		0.05 - 0.20 mm (0.0020 ± 0.0079 in.)	
	Side gear shaft oil seal drive in depth		0.50 ± 0.50 mm (0.0200 ± 0.0200 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	(1G-FE) (2JZ-GE)		239.2 ± 0.3 mm (9.4173 ± 0.0118 in.) 279.7 mm (11.012 in.) or less
	Pinion gear backlash adjusting thrust washer			1.0 mm (0.039 in.) 1.1 mm (0.043 in.) 1.2 mm (0.047 in.) 1.3 mm (0.051 in.)

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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.)
	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.)