

SUSPENSION AND AXLE

SERVICE DATA

SS0FD-03

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| Cold tire inflation pressure (Europe) | Up to 4 passengers | | |
| | Tire size 215/45ZR17 | Front*1 | 250 kPa (2.5 kgf/cm ² , 36 psi) |
| | | Rear*1 | 260 kPa (2.6 kgf/cm ² , 38 psi) |
| | | Front*2 | 240 kPa (2.4 kgf/cm ² , 35 psi) |
| | | Rear*2 | 240 kPa (2.4 kgf/cm ² , 35 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 | 230 kPa (2.3 kgf/cm ² , 33 psi) |
| | | Rear*1 | 240 kPa (2.4 kgf/cm ² , 35 psi) |
| | | Front*2 | 230 kPa (2.3 kgf/cm ² , 33 psi) |
| Rear*2 | | 230 kPa (2.3 kgf/cm ² , 33 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 | 260 kPa (2.6 kgf/cm ² , 38 psi) | |
| | Rear*1 | 340 kPa (3.4 kgf/cm ² , 49 psi) | |
| | Front*2 | 250 kPa (2.5 kgf/cm ² , 36 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 | 240 kPa (2.4 kgf/cm ² , 35 psi) | |
| 205/55R16 89V | Front*1 | 240 kPa (2.4 kgf/cm ² , 35 psi) | |
| | Rear*1 | 310 kPa (3.1 kgf/cm ² , 45 psi) | |
| | Front*2 | 240 kPa (2.4 kgf/cm ² , 35 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) | |
| Cold tire inflation pressure (Others) | Up to 4 passengers | | |
| | Tire size 215/45ZR17 | Front*4 | 280 kPa (2.8 kgf/cm ² , 41 psi) |
| | | Rear*4 | 280 kPa (2.8 kgf/cm ² , 41 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 | 270 kPa (2.7 kgf/cm ² , 39 psi) |
| | | Front*5 | 220 kPa (2.2 kgf/cm ² , 32 psi) |
| Rear*5 | | 220 kPa (2.2 kgf/cm ² , 32 psi) | |

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| Cold tire inflation pressure (Others) | 5 passengers | | |
| | Tire size 215/45ZR17 | Front*4 | 290 kPa (2.9 kgf/cm ² , 42 psi) |
| | | Rear*4 | 320 kPa (3.2 kgf/cm ² , 46 psi) |
| | 205/55R16 89V | Front*5 | 230 kPa (2.3 kgf/cm ² , 33 psi) |
| Rear*5 | | 240 kPa (2.4 kgf/cm ² , 35 psi) | |
| Front wheel alignment | Vehicle height | Front: B*7 - A*6 Rear: C*8 - D*9 | 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 | 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 |
| 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.) |

*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.

SERVICE SPECIFICATIONS – SUSPENSION AND AXLE

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| Rear drive shaft | Drive shaft standard length Europe, Taiwan, Australia (M/T), New Zealand (M/T) Hong Kong (M/T), Thai Land (M/T) | RH: 604.3 ± 5.0 mm (23.791 ± 0.197 in.) LH: 558.3 ± 5.0 mm (21.980 ± 0.197 in.) |
| | Drive shaft standard length Others | RH: 603.3 ± 5.0 mm (23.752 ± 0.197 in.) LH: 558.3 ± 5.0 mm (21.980 ± 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 | 1.4 – 2.0 N·m (14 – 20 kgf·cm, 12.4 – 17.7 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 ± 0.45 mm (0.0200 ± 0.0177 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 Europe, Taiwan, Australia (M/T), New Zealand (M/T) Hong Kong (M/T), Thai Land (M/T) | 2 pinion differential: 244.74 (9.6354 in.) or less LSD: 244.30 (9.6181 in.) or less |
| | Right and left side gear shafts standard distance Others | 246.74 (9.1742 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.) |