SUSPENSION AND AXLE

SERVICE DATA

SS0OJ–06

	Model code	Tire size	Front / Rear	Pressure kPa (kgf/cm^2, psi)
Cold tire inflation pressure (Europe)	71 or 74 series	215/80R16	Front	200 (2.0, 29)*1
				200 (2.0, 29)*4
			Rear	200 (2.0, 29)*1
				280 (2.8, 41)*4
		265/70R16 (Wide body model only)	Front	180 (1.8, 26)*1
				180 (1.8, 26)*4
			Rear	180 (1.8, 26)*1
				220 (2.2, 32)*4
	78 series	205R16C 8PR	Front	250 (2.5, 36)*2
				250 (2.5, 36)*4
			Rear	270 (2.7, 39)*2
				450 (4.5, 65)*4
	79 series	205R16C 8PR	Front	250 (2.5, 36)*3
				250 (2.5, 36)*4
			Rear	270 (2.7, 39)*3
				450 (4.5, 65)*4
Cold tire inflation pressure (Australia)	78 series	7.50R16–8PRLT	Front	250 (2.5, 36)*2
				250 (2.5, 36)*4
			Rear	275 (2.8, 40)*2
				475 (4.8, 69)*4
	79 series	7.50R16–8PRLT	Front	250 (2.5, 36)*3
				250 (2.5, 36)*4
			Rear	250 (2.5, 36)*3
				475 (4.8, 69)*4
		7.50–16–8PRLT	Front	240 (2.4, 35)*3
				240 (2.4, 35)*4
			Rear	240 (2.4, 35)*3
				425 (4.3, 62)*4
Cold tire inflation pressure (G.C.C. countries)	71 or 74 series	7.50R16–8PRLT or 7.50R16C 8PR	Front	200 (2.0, 29)*1
				200 (2.0, 29)*4
			Rear	200 (2.0, 29)*1
				375 (3.8, 54)*4
		265/70R16	Front	180 (1.8, 26)*1
				180 (1.8, 26)*4
			Rear	180 (1.8, 26)*1
				220 (2.2, 32)*4
	78 series	7.50R16–8PRLT or 7.50R16C 8PR	Front	250 (2.5, 36)*2
				250 (2.5, 36)*4
			Rear	300 (3.0, 44)*2
				475 (4.8, 69)*4
	79 series	7.50–16–8PRLT	Front	240 (2.4, 35)*3
				240 (2.4, 35)*4
			Rear	240 (2.4, 35)*3
				425 (4.3, 62)*4
		7.50R16–8PRLT or 7.50R16C 8PR	Front	250 (2.5, 36)*3
				250 (2.5, 36)*4
			Rear	300 (3.0, 44)*3
				475 (4.8, 69)*4
		225/95R16C	Front	220 (2.2, 32)*3
				220 (2.2, 32)**4
			Rear	260 (2.6, 38)*3
				450 (4.5, 65)*4

Cold tire inflation pressure (Other countries)	71 series	7.50–16–6PRLT	Front	180 (1.8, 26)*1
				180 (1.8, 26)*4
			Rear	180 (1.8, 26)*1
				325 (3.3, 47)*4
		7.50R16–6PRLT or 7.50R16–8PRLT	Front	200 (2.0, 29)*1
				200 (2.0, 29)*4
			Rear	200 (2.0, 29)*1
				375 (3.8, 54)*4
		265/70R16	Front	180 (1.8, 26)*1
				180 (1.8, 26)*4
			Rear	180 (1.8, 26)*1
				220 (2.2, 32)*4
	74 series	7.50R16–6PRLT or 7.50R16–8PRLT	Front	200 (2.0, 29)*1
				200 (2.0, 29)*4
			Rear	200 (2.0, 29)*1
				375 (3.8, 54)*4
		265/70R16	Front	180 (1.8, 26)*1
				180 (1.8, 26)*4
			Rear	180 (1.8, 26)*1
				220 (2.2, 32)*4
	78 series	7.50–16–8PRLT	Front	240 (2.4, 35)*2
				240 (2.4, 35)*4
			Rear	240 (2.4, 35)*2
				425 (4.3, 62)*4
		7.50R16–8PRLT or 7.50R16C 8PR	Front	250 (2.5, 36)*2
				250 (2.5, 36)*4
			Rear	300 (3.0, 44)*2
				475 (4.8, 69)*4
	79 series	7.50–16–8PRLT	Front	240 (2.4, 35)*3
				240 (2.4, 35)*4
			Rear	240 (2.4, 35)*3
				425 (4.3, 62)*4
		7.50R16–8PRLT or 7.50R16C 8PR	Front	250 (2.5, 36)*3
				250 (2.5, 36)*4
			Rear	300 (3.0, 44)*3
				475 (4.8, 69)*4
		225/95R16C	Front	220 (2.2, 32)*3
				220 (2.2, 32)**4
			Rear	260 (2.6, 38)*3
				450 (4.5, 65)*4

*1: Unladen condition with 2 passengers and 200 kg of luggage
*2: Unladen condition with 2 passengers and 400 kg of luggage
*3: Unladen condition with 2 passengers and 500 kg of luggage
*4: Fully laden condition

Front wheel alignment	Vehicle height		Clearance *5
	71 series	Front	27 mm (1.06 in.)
		Rear	105 mm (4.13 in.)
	74 series	Front	34 mm (1.34 in.)
		Rear	104 mm (4.09 in.)
	78 series	Front	34 mm (1.34 in.)
		Rear	113 mm (4.45 in.)
	79 series	Front (Standard suspension)	33 mm (1.30 in.)
		Rear (Standard suspension)	159 mm (6.26 in.)
		Front (Heavy duty suspension)	22 mm (0.87 in.)
		Rear (Heavy duty suspension)	132 mm (5.20 in.)
	Camber		1° ± 45' (1° ± 0.75°)
		Right–left error	45' (0.75°) or less
	Caster		
	79 series		3°35' ± 45' (3.58° ± 0.75°)
	Others		4°20' ± 45' (4.33° ± 0.75°)
		Right–left error	45' (0.75°) or less
	Steering axis inclination		13° ± 45' (13° ± 0.75°)
	Toe–in (total)	Bias ply tire	0°12' ± 12' (0.2° ± 0.2°, 2 ± 2 mm, 0.08 ± 0.08 in.)
		Radial tire	0°00' ± 12' (0.0° ± 0.2°, 0 ± 2 mm, 0.00 ± 0.08 in.)
	Wheel angle	Inside wheel	32° (29° – 32°)
		Outside wheel: Reference	28°

*5: Clearance

Front: Distance from the front axle housing to the following spring

Rear: Distance from the rear axle housing to the bumper stopper

Front axle	Wheel bearing preload (at starting)		26 – 52 N (2.7 – 5.3 kgf, 6.0 – 11.7 lbf)
	Front axle backlash	Maximum	0.2 mm (0.008 in.)
	Front axle snap ring thickness		1.80 mm (0.0709 in.) 2.00 mm (0.0787 in.) 2.20 mm (0.0866 in.) 2.40 mm (0.0945 in.) 2.60 mm (0.1024 in.) 2.80 mm (0.1102 in.)
Steering knuckle and axle shaft	Steering knuckle bearing preload (at starting)		25 – 44 N (2.5 – 4.5 kgf, 5.6 – 9.9 lbf)
	Steering knuckle bearing adjusting shim		0.1 mm (0.004 in.) 0.2 mm (0.008 in.) 0.5 mm (0.020 in.) 1.0 mm (0.039 in.)

Rear differential	Companion flange vertical runout	0.10 mm (0.0039 in.)
	Companion flange lateral runout	0.10 mm (0.0039 in.)
	Drive pinion preload (at starting) New bearing Reused bearing	1.3 – 1.8 N·m (13 – 19 kgf·cm, 11.3 – 16.4 in.·lbf) 0.64 – 0.92 N·m (6.5 – 9.4 kgf·cm, 5.6 – 8.2 in.·lbf)
	Total preload (at starting)	Drive pinion preload plus 0.38 – 0.63 N·m (3.8 – 6.4 kgf·cm, 3.3 – 5.6 in.·lbf)
	Ring gear runout	0.05 mm (0.0020 in.)
	Ring gear backlash	0.13 – 0.18 mm (0.0051 – 0.0071 in.)
	Side gear backlash	0.02 – 0.15 mm (0.0008 – 0.0059 in.)
	Differential case runout	0.04 mm (0.0016 in.)
	Drive pinion oil seal drive in depth	0.5 mm (0.020 in.)
	Side gear thrust washer thickness	1.55 mm (0.0610 in.) 1.60 mm (0.0630 in.) 1.65 mm (0.0650 in.) 1.70 mm (0.0669 in.) 1.75 mm (0.0689 in.) 1.80 mm (0.0709 in.) 1.85 mm (0.0728 in.) 1.90 mm (0.0748 in.) 1.95 mm (0.0768 in.) 2.00 mm (0.0787 in.) 2.05 mm (0.0807 in.) 2.10 mm (0.0827 in.)
	Tooth contact pattern adjusting washer thickness	1.050 mm (0.04134 in.) 1.075 mm (0.04232 in.) 1.100 mm (0.04331 in.) 1.125 mm (0.04429 in.) 1.150 mm (0.04528 in.) 1.175 mm (0.04626 in.) 1.200 mm (0.04724 in.) 1.225 mm (0.04823 in.) 1.250 mm (0.04921 in.) 1.275 mm (0.05020 in.) 1.300 mm (0.05118 in.) 1.325 mm (0.05217 in.) 1.350 mm (0.05315 in.) 1.375 mm (0.05413 in.) 1.400 mm (0.05512 in.) 1.425 mm (0.05610 in.) 1.450 mm (0.05709 in.) 1.475 mm (0.05807 in.) 1.500 mm (0.05906 in.) 1.525 mm (0.06004 in.) 1.550 mm (0.06102 in.)

Rear differential (w/ Diff. Lock)	Companion flange vertical runout		0.10 mm (0.0039 in.)
	Companion flange lateral runout		0.10 mm (0.0039 in.)
	Drive pinion preload (at starting)	New bearing	1.3 – 1.8 N·m (13 – 19 kgf·cm, 11.3 – 16.4 in.·lbf)
		Reused bearing	0.64 – 0.92 N·m (6.5 – 9.4 kgf·cm, 5.6 – 8.2 in.·lbf)
	Total preload (at starting)		Drive pinion preload plus 0.3 – 0.5 N·m (3 – 5 kgf·cm, 2.6 – 4.3 in.·lbf)
	Ring gear runout		0.05 mm (0.0020 in.)
	Ring gear backlash		0.13 – 0.18 mm (0.0051 – 0.0071 in.)
	Side gear backlash		0.02 – 0.15 mm (0.0008 – 0.0059 in.)
	Differential case runout		0.04 mm (0.0016 in.)
	Drive pinion oil seal drive in depth		0.5 mm (0.020 in.)
	Side gear thrust washer thickness		1.55 mm (0.0610 in.) 1.60 mm (0.0630 in.) 1.65 mm (0.0650 in.) 1.70 mm (0.0669 in.) 1.75 mm (0.0689 in.) 1.80 mm (0.0709 in.) 1.85 mm (0.0728 in.) 1.90 mm (0.0748 in.) 1.95 mm (0.0768 in.) 2.00 mm (0.0787 in.) 2.05 mm (0.0807 in.) 2.10 mm (0.0827 in.)
	Ring gear backlash adjusting washer thickness	Mark	
		1	2.67 mm (0.1051 in.)
		2	2.70 mm (0.1063 in.)
		3	2.73 mm (0.1075 in.)
		4	2.76 mm (0.1087 in.)
		5	2.79 mm (0.1098 in.)
		6	2.82 mm (0.1110 in.)
		7	2.85 mm (0.1122 in.)
		8	2.88 mm (0.1134 in.)
		9	2.91 mm (0.1146 in.)
		10	2.94 mm (0.1157 in.)
		11	2.97 mm (0.1169 in.)
		12	3.00 mm (0.1181 in.)
		13	3.03 mm (0.1193 in.)
		14	3.06 mm (0.1205 in.)
		15	3.09 mm (0.1217 in.)
		16	3.12 mm (0.1228 in.)
		17	3.15 mm (0.1240 in.)
		18	3.18 mm (0.1252 in.)
		19	3.21 mm (0.1264 in.)
		20	3.24 mm (0.1276 in.)
		21	3.27 mm (0.1287 in.)
		22	3.30 mm (0.1299 in.)
		23	3.33 mm (0.1311 in.)

Rear differential (w/ Diff. Lock)	Tooth contact pattern adjusting washer thickness	1.050 mm (0.04134 in.) 1.075 mm (0.04232 in.) 1.100 mm (0.04331 in.) 1.125 mm (0.04429 in.) 1.150 mm (0.04528 in.) 1.175 mm (0.04626 in.) 1.200 mm (0.04724 in.) 1.225 mm (0.04823 in.) 1.250 mm (0.04921 in.) 1.275 mm (0.05020 in.) 1.300 mm (0.05118 in.) 1.325 mm (0.05217 in.) 1.350 mm (0.05315 in.) 1.375 mm (0.05413 in.) 1.400 mm (0.05512 in.) 1.425 mm (0.05610 in.) 1.450 mm (0.05709 in.) 1.475 mm (0.05807 in.) 1.500 mm (0.05906 in.) 1.525 mm (0.06004 in.) 1.550 mm (0.06102 in.)

Rear differential (w/ LSD)	Companion flange vertical runout	0.10 mm (0.0039 in.)
	Companion flange lateral runout	0.10 mm (0.0039 in.)
	Drive pinion preload (at starting) New bearing	1.3 – 1.8 N·m (13 – 19 kgf·cm, 11.3 – 16.4 in.·lbf)
	Reused bearing	0.64 – 0.92 N·m (6.5 – 9.4 kgf·cm, 5.6 – 8.2 in.·lbf)
	Total preload (at starting)	Drive pinion preload plus 0.38 – 0.63 N·m (3.8 – 6.4 kgf·cm, 3.3 – 5.6 in.·lbf)
	Ring gear runout	0.05 mm (0.0020 in.)
	Ring gear backlash	0.13 – 0.18 mm (0.0051 – 0.0070 in.)
	Side gear backlash	0.02 – 0.15 mm (0.0008 – 0.0059 in.)
	Differential case runout	0.04 mm (0.0016 in.)
	Drive pinion oil seal drive in depth	0.5 mm (0.020 in.)
	Side gear thrust washer thickness (Reference)	1.97 – 2.06 mm (0.0776 – 0.0811 in.)
	Clutch plate thickness (Reference)	1.97 – 2.03 mm (0.0776 – 0.0799 in.)
	Compression spring free length (Reference)	32.8 mm (1.291 in.)
	Adjusting shim thickness Mark	
	A	0.20 mm (0.0079 in.)
	B	0.25 mm (0.0098 in.)
	C	0.30 mm (0.0118 in.)
	D	0.35 mm (0.0138 in.)
	Tooth contact pattern adjusting washer thickness	1.050 mm (0.04134 in.) 1.075 mm (0.04232 in.) 1.100 mm (0.04331 in.) 1.125 mm (0.04429 in.) 1.150 mm (0.04528 in.) 1.175 mm (0.04626 in.) 1.200 mm (0.04724 in.) 1.225 mm (0.04823 in.) 1.250 mm (0.04921 in.) 1.275 mm (0.05020 in.) 1.300 mm (0.05118 in.) 1.325 mm (0.05217 in.) 1.350 mm (0.05315 in.) 1.375 mm (0.05413 in.) 1.400 mm (0.05512 in.) 1.425 mm (0.05610 in.) 1.450 mm (0.05709 in.) 1.475 mm (0.05807 in.) 1.500 mm (0.05906 in.) 1.525 mm (0.06004 in.) 1.550 mm (0.06102 in.)