SUSPENSION AND AXLE

Service Data

Cold tire inflation pressure	Destination	Grade	Tire size	Pressure	kPa (kgf/cm², psi)
				Front	Rear
	Australia	STD	7.50R16-6	240 (2.4, 34)	300 (3.0, 43)
			7.50R16-8	240 (2.4, 34)	300 (3.0, 43)
		GX, VX	7.50R16-6	240 (2.4, 34)	320 (3.2, 46)
			265/75R15 112S	180 (1.8, 26)	180 (1.8, 26)
	Destination	Model	Tire size	Pressure	kPa (kgf/cm², psi)
				Front	Rear
	Europe	FJ 80 series	215/80R16 107S	210 (2.1, 30)	240 (2.4, 34)
			265/75R15 112S	180 (1.8, 26)	180 (1.8, 26)
		HZJ 80 series (STD)	215/80R16 107S	210 (2.1, 30)	220 (2.2, 31)
		HZJ 80 series (GX)	215/80R16 107S	220 (2.2, 31)	240 (2.4, 34)
			265/75R15 112S	180 (1.8, 26)	180 (1.8, 26)
		HDJ 80 series	215/80R16 107S	230 (2.3, 33)	240 (2.4, 34)
			265/75R15 112S	180 (1.8, 26)	180 (1.8, 26)
	Middle East	FZJ 80 series	7.50R16-8	250 (2.5, 36)	325 (3.25, 46)
			7.50R16-8 (Sahara tire)	270 (2.7, 38)	350 (3.5, 50)
			7.50R16-6	250 (2.5, 36)	325 (3.25, 46)
			235/95R15C-6 (Sand tire)	180 (1.8, 26)	200 (2.0, 28)
			31 × 10.50R15L-6	220 (2.2, 32)	280 (2.8, 41)
		HZJ 80 series	7.50R16-8	250(2.5, 36)	325(3.25, 46)
			7.50R16-8 (Sahara tire)	270 (2.7, 38)	350 (3.5, 50)
			7.50R16-6	250 (2.5, 36)	325 (3.25, 46)
			235/95R15C-6 (Sand tire)	180 (1.8, 26)	200 (2.0, 28)
			31 × 10.50R15L-6	220 (2.2, 32)	280 (2.8, 41)
	Others	FZJ 80 series	7.50-16-6	200 (2.0, 28)	300 (3.0, 43)
			7.50R16-8	250 (2.5, 36)	325 (3.25, 46)
			7.50R16-8 (Sahara tire)	270 (2.7, 38)	350 (3.5, 50)
			7.50R16-6	250 (2.5, 36)	325 (3.25, 46)
			235/95R15C-6 (Sand tire)	180 (1.8, 26)	200 (2.0, 28)
			31 × 10.50R15LT-6	220 (2.2, 31)	280 (2.8, 41)
		HZJ 80 series	7.50-16-6	200 (2.0, 28)	300 (3.0, 43)
			7.50R16-8	250 (2.5, 36)	325 (3.25, 46)
			7.50R16-8 (Sahara tire)	270 (2.7, 38)	350 (3.5, 50)
			7.50R16-6	250 (2.5, 36)	325 (3.25, 46)
			235/95R15C-6 (Sand tire)	180 (1.8, 26)	200 (2.0, 28)
			31 × 10.50R15LT-6	220 (2.2, 31)	280 (2.8, 41)
		HDJ 80 series	7.50R16-6	250 (2.5, 36)	325 (3.25, 46)
			7.50R16-8	250 (2.5, 36)	325 (3.25, 46)
			7.50R16-8 (Sahara tire)	270 (2.7, 38)	350 (3.5, 50)
			235/95R15C-6 (Sand tire)	180 (1.8, 26)	200 (2.0, 28)
			31 × 10.50R15LT-6	220 (2.2, 31)	300 (3.0, 43)

Service Data (Cont'd)

Follow spring and bumper stopper clearance	A: Follow spring clearance (Front) B: Bumper stopper clearance (Rear)	A	B
		25 mm (0.98 in.)	45 mm (1.77 in.)
Front wheel alignment	Camber	1° ± 45'	
	Cross camber	30' or less	
	Steering axis inclination	13°00' ± 45'	
	Caster (31 × 10.50R15LT-6, 265/75R15) (Others)	1°40' ± 45' 3°00' ± 45'	
	Cross caster	30' or less	
Front axle and suspension	Steering knuckle bearing preload (rotating load at knuckle arm end)	25 — 44 N 2.5 — 4.5 kgf 5.6 — 12.3 lbf	
	Axle shaft lateral runout	0.8 mm 0.031 in.	
	Hub axial play (w/ Full-floating type)	Less than 0.1 mm (0.004 in.)	
	Wheel bearing preload	6 — 32 N 0.6 — 1.4 kgf 1.3 — 7.2 lbf	
	Axle housing and lock nut distance	— 0.2 — 0.9 mm —0.008 — 0.035 in.	

Torque Specifications

	Part tightened	N·m	kgf·cm	ft·lbf
Front axle and suspension	Knuckle stopper bolt	44	450	33
	Free wheeling hub body × Axle hub	31	315	23
	Free wheeling hub cover × Free wheeling hub body	10	100	7
	Axle carrier × Brake tube	15	155	11
	Axle carrier × Disc brake cylinder	123	1,250	90
	Axle hub × Flange	35	360	26
	Hub bearing adjusting nut	59	600	43
	Steering knuckle × Bearing cap	96	980	71
	Steering knuckle × Knuckle arm	96	980	71
	Steering knuckle × Oil seal retainer	5.4	55	48 in.·lbf
	Knuckle arm × Tie rod end	91	925	67
	Disc rotor × Axle hub	74	750	54
	Disc cover × Dust seal	47	475	34
Rear axle and suspension	Axle shaft × Axle hub	33	340	25
	Axle housing × Backing plate	123	1,250	90
	Bearing lock nut	59	600	43
	Brake cylinder × Axle housing	88	900	65