SERVICE SPECIFICATIONS

SERVICE DATA

SAOYT-01

Cold tire inflation pressure	Area Application	Model (Grade)	Type	Tire Size	Pressure kpa (kgf/cm^2 or bar, psi) Front	Rear
	Hong Kong	BB42R		6.50R16- 8PRLT	475 (4.75, 69)	300 (3.00, 44)
		HZB50R		7.00R16-10PRLT	525 (5.25, 76)	—
				7.00R16- 8PRLT	—	300 (3.00, 44)
	Middle East	BB42L	General	6.50R16-10PRLT	550 (5.50, 80)	475 (4.75, 69)
			Rough Road	7.00R16-10PRLT	475 (4.75, 69)	—
				7.00R16- 8PRLT	—	375 (3.75, 54)
		HZB50L		7.00R16-12PRLT	600 (6.00, 87)	—
				7.00R16- 8PRLT	—	375 (3.75, 54)
		RZB40L (EX grade)	General	6.50R16-10PRLT	500 (5.00, 73)	350 (3.50, 51)
			Rough Road	7.00R16-10PRLT	400 (4.00, 58)	—
				7.00R16- 8PRLT	—	300 (3.00, 44)
		RZB40L (Others)	General	6.50R16-10PRLT	550 (5.50, 80)	475 (4.75, 69)
			Rough Road	7.00R16-10PRLT	475 (4.75, 69)	—
				7.00R16- 8PRLT	—	375 (3.75, 54)
	Australia	BB40R		6.50R16- 8PRLT	475 (4.75, 69)	375 (3.75, 54)
		HZB50R		7.00R16-10PRLT	525 (5.25, 76)	300 (3.00, 44)
	Others	BB42R BB42L	General	6.50R16-10PRLT	550 (5.50, 80)	475 (4.75, 69)
			Rough Road	7.00R16-10PRLT	475 (4.75, 69)	—
				7.00R16- 8PRLT	—	375 (3.75, 54)
		HZB50R, HZB50L (EX grade)		7.00R16-10PRLT	525 (5.25, 76)	—
				7.00R16- 8PRLT	—	300 (3.00, 44)
		HZB50R, HZB50L (Others)		7.00R16-12PRLT	600 (6.00, 87)	—
				7.00R16- 8PRLT	—	375 (3.75, 54)
		RZB40L (EX grade)	General	6.50R16-10PRLT	500 (5.00, 73)	350 (3.50, 51)
			Rough Road	7.00R16-10PRLT	400 (4.00, 58)	—
				7.00R16- 8PRLT	—	300 (3.00, 44)
		RZB40L (Others)	General	6.50R16-10PRLT	550 (5.50, 80)	475 (4.75, 69)
			Rough Road	7.00R16-10PRLT	475 (4.75, 69)	—
				7.00R16- 8PRLT	—	375 (3.75, 54)
		RZB50L		7.00R16-12PRLT	600 (6.00, 87)	—
				7.00R16- 8PRLT	—	375 (3.75, 54)

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Vehicle height	Front vehicle height	The size	Height	
		6.50R16	267 ± 1 mm (10.68 ± 0.04 in.)	
		7.00R16	288 ± 1 mm (11.48 ± 0.04 in.)	
Front wheel alignment	Toe-in	Tire size	Toe-in (Total)	
		6.50R16	2.5 ± 2 mm (0.10 ± 0.08 in.)	
		7.00R16	3.5 ± 2 mm (0.14 ± 0.08 in.)	
	Camber		0° ± 45′	
		Left-right error	30′ or less	
	Caster		4°30′ ± 45′	
		Left-right error	30′ or less	
	Steering axis inclination		13° 00′ (reference)	
	Wheel angle	Inside wheel	37°30′ ~ 40°30′	
		Outside wheel	35°50′ (reference)	
Front Axle	Axle hub axial play		0.05 mm (0.0020 in.) or less	
	Wheel bearing preload (at starting)		5 – 19 N (0.5 – 1.9 kgf, 1.1 – 4.2 lbf)	
Front suspension	Upper ball joint turning torque		2.5 – 5.9 N·m (25 – 60 kgf·cm, 22 – 52 in.·lbf)	
	Lower ball joint turning torque		4.4 – 8.3 N·m (45 – 85 kgf·cm, 39 – 74 in.·lbf)	
Rear Axle	Axle hub axial play		0.10 mm (0.0039 in.) or less	
	Wheel bearing preload (at starting)		10 – 29 N (1.0 – 3.0 kgf, 2.2 – 6.6 lbf)	
Rear differential	Companion flange vertical runout		0.10 mm (0.0039 in.) or less	
	Companion flange lateral runout		0.10 mm (0.0039 in.) or less	
	Drive pinion bearing preload (at starting)	New bearing	1.9 – 2.5 N·m (19 – 26 kgf·cm, 16.5 – 22.6 in.·lbf)	
		Reused bearing	0.8 – 1.3 N·m (8 – 13 kgf·cm, 6.9 – 11.3 in.·lbf)	
	Total preload (Add drive pinion preload)		0.2 – 0.4 N·m (2 – 4 kgf·cm, 1.7 – 3.5 in.·lbf)	
	Pinion gear to side gear backlash		0.02 – 0.20 mm (0.0008 – 0.0079 in.)	
	Drive pinion to ring gear backlash		0.15 – 0.20 mm (0.0059 – 0.0079 in.)	
	Side gear thrust washer thickness		1.60 mm (0.0630 in.) 1.75 mm (0.0689 in.) 1.90 mm (0.0748 in.) 2.05 mm (0.0807 in.)	
	Drive pinion bearing preload adjusting shim thickness ● Shim A [at intervals of 0.1 mm (0.0039 in.)] ● Shim B [at intervals of 0.01 mm (0.00039 in.)]		Shim A thickness	Shim B thickness
			1.90 mm (0.0748 in.) 2.00 mm (0.0787 in.) 2.10 mm (0.0827 in.) 2.20 mm (0.0866 in.) 2.30 mm (0.0906 in.) 2.40 mm (0.0945 in.) 2.50 mm (0.0984 in.) 2.60 mm (0.1024 in.) 2.70 mm (0.1063 in.) 2.80 mm (0.1102 in.) 2.90 mm (0.1142 in.) 3.00 mm (0.1181 in.)	1.80 mm (0.0709 in.) 1.81 mm (0.0713 in.) 1.82 mm (0.0717 in.) 1.83 mm (0.0720 in.) 1.84 mm (0.0724 in.) 1.85 mm (0.0728 in.) 1.86 mm (0.0732 in.) 1.87 mm (0.0736 in.) 1.88 mm (0.0740 in.) 1.89 mm (0.0744 in.)

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Rear differential	Drive pinion plate washer thickness	1.05 mm (0.0413 in.) 1.10 mm (0.0433 in.) 1.15 mm (0.0453 in.) 1.20 mm (0.0472 in.) 1.25 mm (0.0492 in.) 1.30 mm (0.0512 in.) 1.35 mm (0.0531 in.) 1.40 mm (0.0551 in.) 1.45 mm (0.0571 in.) 1.50 mm (0.0591 in.) 1.55 mm (0.0610 in.)
	Ring gear runout	0.10 mm (0.0039 in.) or less
	Front oil seal drive in depth	1 mm (0.039 in.)
Rear suspension	Stabilizer bar link turning torque	0.05 – 1.95 N·m (0.5 – 20 kgf·cm, 0.4 – 17.3 in.·lbf)

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TORQUE SPECIFICATIONS

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Part tightened		N·m	kgf·cm	ft·lbf
Tie rod tube clamp		40	410	30
Knuckle stopper bolt lock nut		49	500	36
Shock absorber upper side x Bracket		69	700	51
Shock absorber lower side x Bracket		69	700	51
Upper ball joint x Steering knuckle		170	1,700	126
Lower ball joint x Steering knuckle		205	2,100	152
Front axle hub x Brake drum / Disc rotor		170	1,700	126
Steering knuckle x Brake caliper		245	2,500	181
Knuckle arm x Steering knuckle x Brake caliper		265	2,700	195
Steering knuckle x Front drum brake assembly		185	1,900	137
Steering knuckle x Dust cover		127	1,300	94
Knuckle arm x Dust cover		220	2,250	163
Anchor arm adjusting nut lock nut		100	1,000	74
Upper suspension arm x Frame	Front	160	1,650	119
	Rear	250	2,550	184
Upper suspension arm x Upper ball joint		230	2,300	170
Upper suspension arm x Torque arm		230	2,300	170
Lower suspension arm x Frame		215	2,200	158
No.1 lower arm x No.2 lower arm		230	2,300	170
Shock absorber bracket x Lower arm		69	700	51
Rear axle hub x Brake drum		170	1,700	126
Axle shaft x Axle hub		61	620	45
Differential carrier x Axle housing		52	530	38
Propeller shaft x Companion flange		88	900	65
Drive pinion x Companion flange		304	3,100	224
Ring gear x Differential case		162	1,650	119
Side bearing cap x Differential carrier		196	2,000	145
Differential RH case x Differential LH case		78	800	58
Rear shock absorber x Frame / Spring seat		70	700	52
Rear axle housing x Spring seat (U–Bolt)		200	2,050	148
Leaf spring x Front bracket		325	3,350	240
Leaf spring x Shackle pin		225	2,300	165
Shackle pin x Rear bracket		135	1,400	100
Leaf spring center bolt		50	510	37
Rear stabilizer bar bracket x Frame		18	175	13
Rear stabilizer bar x Stabilizer bar link		95	950	69
Rear stabilizer bar link x Spring seat		95	950	69
Wheel nut		515	5,250	380