

SUSPENSION AND AXLE

Specifications

Cold tire inflation pressure kPa (kgf/cm ² , psi)	Tire size		Front	Rear
	2WD	185/65R 14 85S 205/6014 87H 205/55R15 87V 215/50R15 88V	200 (2.0, 29) 200 (2.0, 29) 230 (2.3, 33) 210 (2.1, 30)	190 (1.9, 28) 190 (1.9, 28) 220 (2.2, 32) 190 (1.9, 28)
	4WD	215/50R 15 88V	220 (2.2, 32)	210 (2.1, 30)
Chassis ground clearance mm (in.)	2WD		185.0 (7.283)	251.5 (9.902)
	4WD		187.5 (7.381)	237.0 (9.323)
Front wheel alignment	Toe-in		0±2 mm 0±0.2°	0±0.08 in.
	Left-right error		1.0 mm (0.039 in.) or less	
	Camber Left-right error		-10' ± 45' 30' or less	
	Caster	2WD	55' ± 45'	
		4WD	50'± 45' 30' or less	
	Steering axis inclination Left-right error		14010± 45' 30' or less	
	Wheel angle (Maximum)	Outside wheel	29° 30'	
Inside wheel		33° 30'		
Side slip (Reference only)		3.0 mm/m (0.118 in./3.3 ft) or less		
Rear wheel alignment	Toe-in		5±2 mm 0.5° ± 0.2°	0.20 ± 0.08 in.
	Left-right error		3.0 mm (0.12 in.) or less	
	Camber		-45' ± 30' 30' or less	
Wheel lateral runout			Less than 1.0 mm (0.039 in.)	
Front axle and suspension	Hub bearing axial direction play Limit		0.5 m m	0.0020 in.
	Ball joint rotation condition		1.0 – 2.9 N –m	10 – 30 kgf–cm 9 –16 in.–lbf
	Ball joint vertical play		0 mm	0 in.
	Drive shaft standard length			
	4A–FE engine A/T	LH	539.7 ± 5.0 m m	21.248 ± 0.197 in.
		RH	855.8±5.0 mm	33.693 ± 0.197 in.
		M/T LH	541.0 ± 5.0 m m	21.299 f 0.197 in.
		RH	862.8± 5.0 mm	33.968 ± 0.197 in.
	5S–FE engine	LH	558.7 ± 5.0 m m	21.996 ± 0.197 in.
		RH	845.2 ± 5.0 m m	33.276 t 0.197 in.
		405.4±5.0 mm	15.961 ± 0.197 in.	
3S–GTE engine				
Drive shaft grease capacity 4WD				
Outboard joint		120 g	0.26 lb	
Inboard joint		90 g	0.20 l b	
Side gear shaft		43 g	0.09 l b	

Specifications (Cont'd)

Differential (cont'd)	Side bearing adjusting washer thickness (cont'd)	2.72 – 2.74 mm	0.1071 – 0.1079 in.
		2.75 – 2.77 m m	0.1083 – 0.1091 in.
		2.78 – 2.80 m m	0.1094 – 0.1102 in.
		2.81 – 2.83 m m	0.1106–0.1114 in.
		2.84 – 2.86 m m	0.1118 – 0.1126 in.
		2.87 – 2.89 m m	0.1130 – 0.1138 in.
		2.90 – 2.92 m m	0.1142 – 0.1150 in.
		2.93 – 2.95 m m	0.1154–0.1161 in.
		2.96–2.98 mm	0.1165 – 0.1173 in.
		2.99 – 3.01 m m	0.1177 – 0.1185 in.
		3.02 – 3.04 m m	0.1189–0.1197 in.
		3.05–3.07 mm	0.1201 – 0.1209 in.
		3.08 – 3.10 m m	0.1213 – 0.1220 in.
		3.11 – 3.13 mm	0.1224 – 0.1232 in.
		3.14 – 3.16 mm	0.1236 – 0.1244 in.
		3.17 – 3.19 mm	0.1248 – 0.1256 in.
		3.20 – 3.22 m m	0.1260 – 0.1268 in.
		2.30 m m	0.0906 in.
		2.31 m m	0.0909 i n.
		2.32 m m	0.0913 in.
		2.33 m m	0.0917 in.
		2.34 m m	0.0921 in.
		2.35 m m	0.0925 in.
		2.36 m m	0.0929 in.
		2.37 mm	0.0933 in.
		2.38 m m	0.0937 in.
		2.39 m m	0.0941 in.
		2.40 m m	0.0945 in.
		2.41 m m	0.0949 'in.
		2.42 m m	0.0952 in.
		2.43 m m	0.0957 i n .
		2.44 m m	0.0961 i n.
		2.45 mm	0.0965 in.
		2.46 m m	0.0969 i n.
		2.47 m m	0.0972 in.
		2.48 m m	0.0976 in.
		2.49 mm	0.0980 in.
		2.50 m m	0.0984 in.
		2.51 mm	0.0988 in.
		2.52 m m	0.0992 in.
		2.53 mm	0.0996 in.
		2.54 m m	0.1000 in.
		2.55 m m	0.1004 in.
		2.56 m m	0.1008 in.
		2.57 mm	0.1012 in.
		2.58 m m	0.1016 in.
		2.59 m m	0.1020 i n .
		2.60 m m	0.1024 in.
	Drive pinion adjusting washer thickness		

Specifications (Cont'd)

Differential (cont'd)	Drive pinion adjusting washer thickness (cont'd)	2.61 m m	0.1028 in.
		2.62 m m	0.1031 in.
		2.63 m m	0.1035 in.
		2.64 m m	0.1039 in.
		2.65 m m	0.1043 in.
		2.66 m m	0.1047 in.
		2.67 m m	0.1051 in.
		2.68 m m	0.1055 in.
		2.69 m m	0.1059 in.
		2.70 m m	0.1063 in.
		2.71 m m	0.1067 in.

Torque Specifications

Part tightened	N·m	kgf-cm	ft. lbf
[Front Axle and Suspension]			
Tie rod end lock nut	56	570	41
Ball joint x Steering knuckle	103	1,050	76
Tie rod end x Steering knuckle	49	500	36
Ball joint x Lower arm	127	1,300	94
Shock absorber x Steering knuckle	304	3,100	224
Disc brake caliper x Steering knuckle	107	1,090	79
ABS speed sensor x Steering knuckle (w/ ABS)	7.8	80	69 in.-lbf
Hub bearing lock nut	226	2,300	166
Center bearing case x Center bearing bracket	64	650	47
Piston rod x Suspension support	47	475	34
Suspension support x Body	80	820	59
Front disc brake hose union bolt	30	310	22
Suspension arm shaft x Body	152	1,550	112
Suspension crossmember x Body	152	1,550	112
Lower arm rear bracket x Body	98	1,000	72
Lower arm damper plate bolt	65	660	48
Stabilizer bar x Lower arm	35	360	26
Lower arm front setting nut	212	2,160	156
Lower arm rear nut	137	1,400	101
Stabilizer bracket x Body	18	180	13
Front exhaust pipe support x Body	19	195	14
Front exhaust pipe x Rear exhaust pipe	43	440	32
Hub nut	103	1,050	76
Transmission case protector bolt(4WD)	18	185	13
Drive shaft x Side gear shaft(4WD)	65	660	48
[Rear Axle and Suspension]			
Axle shaft x Axle hub	123	1,250	90
Rear shock absorber x Rear axle carrier	255	2,600	188
Axle hub x Axle carrier	80	820	59
Rear disc brake caliper x Axle carrier	47	475	34
Strut rod x Axle carrier	113	1,150	83

Torque Specifications (Cont'd)

Part tightened	N·m	kgf-cm	ft. lbf
No.1 and No.2 suspension arm x Axle carrier	226	2,300	166
Rear shock absorber x Body	39	400	29
Rear shock absorber x Stabilizer bar link	64	650	47
Rear shock absorber x Holding nut	49	500	36
Rear disc brake hose union bolt	30	310	22
Brake tube flare nut	15	155	11
Suspension arm x Body	113	1,150	83
Fuel tank band x Body	39	400	29
Stabilizer bar bracket x Body	19	195	14
Stabilizer bar link x Stabilizer bar	64	650	47
Hub nut	103	1,050	76
Rear speed sensor x Axle carrier (w/ ABS)	19	195	14
Axle carrier x Backing plate	72	730	53
Parking brake cable x Backing plate	7.8	80	69 in-lbf
Rear drive shaft x Axle hub	226	2,300	166
Suspension arm x Axle carrier	123	1,250	90
Strut rod x Body	113	1,150	83
Drive shaft x Side gear shaft	69	700	51
Propeller shaft x Companion flange	74	750	54
Rear crossmember x Body	72	730	53
Differential case x Ring gear	97	985	71
Bearing cap x Differential carrier	78	800	58
Differential carrier x Carrier cover	47	475	34
Differential x Support member	95	970	70
	147	1,500	108
	49	500	36
	39	400	29
Drain plug			
Filler plug			