

**STEERING****Specifications**

Steering column	Steering wheel freeplay Pawl stopper	Maximum	40mm	1.58 in.
		Mark		
		1 or A	12.65 – 12.75 mm	0.4980 – 0.5020 in.
		2 or B	12.55 – 12.65 mm	0.4941 – 0.4980 in.
		3 or C	12.45 – 12.55 mm	0.4902 – 0.4941 in.
		4 or D	12.35 – 12.45 mm	0.4862 – 0.4902 in.
Manual gear housing	5 or E	12.25 – 12.35 mm	0.4823 – 0.4862 in.	
	Steering rack runout	Maximum	0.3mm	0.012 in.
	Pinion bearing preload	at Turning	1.5 – 2.5 kg-cm 1.3 – 2.2 in.-lb	0.1 – 0.2 N·m
	Total preload	at Turning	7 – 12 kg-cm 6.1 – 14.8 in.-lb	0.7 – 1.7 N·m
Power steering	Drive belt tension at 10kg (22.0 lb, 98 N)			
	RZH series	New belt	7 – 9 mm	0.28 – 0.35 in.
		Used belt	8 – 12 mm	0.32 – 0.47 in.
	LH series	New belt	7.5 – 9.5 mm	0.30 – 0.37 in.
		Used belt	9 – 13 mm	0.35 – 0.51 in.
	Drive belt tension w/ SST			
	RZH series and LH series (2WD)	New belt	45 – 55 kg	
		Used belt	20 – 35 kg	
	LH series (4WD)	New belt	55 – 65 kg	
		Used belt	25 – 40 kg	
	Maximum rise of oil level		5mm	0.20 in.
	Oil pressure at idle speed		Minimum	80 kg/cm <sup>2</sup> 1,138 psi 7,845 kPa
	Steering effort		Maximum	60 kg-cm 52 in.-lb 5.9 N·m
	Rotor shaft bushing oil clearance		STD	0.03 – 0.05 mm 0.0012 – 0.0020 in.
			Maximum	0.07 mm 0.0028 in.
	Vane plate to rotor groove clearance			
			STD	0.025 mm 0.0010 in.
			Maximum	0.035 mm 0.0014 in.
	Vane plate	Minimum height	8.6 mm	0.3386 in.
		Minimum thickness	1.40 mm	0.0551 in.
		Minimum length	14.99 mm	0.5902 in.
	Vane plate length			
	Rotor and cam ring mark			
			None	14.999 – 15.001 mm 0.5905 – 0.5906 in.
			1	14.997 – 14.999 mm 0.59043 – 0.5905 in.
			2	14.995 – 14.997 mm 0.59035 – 0.59043 in.
			3	14.993 – 14.995 mm 0.59027 – 0.59035 in.
			4	14.991 – 14.993 mm 0.59020 – 0.59027 in.
	Flow control valve spring length			33 – 34 mm 1.30 – 1.34 in.
	Pump rotating torque			2.8 kg-cm (2.4 in.-lb, 0.3 N·m) or less
	Steering rack runout		Maximum	0.3mm 0.012 in.
	Total preload		at Turning	7 – 13 kg-cm 6.1 – 11.3 in.-lb 0.7 – 1.3 N·m

**Specifications (Cont'd)**

Bevel gear housing	No.1 bevel gear preload	at Turning	0.8 – 1.5 kg-cm	0.7 – 1.3 in.-lb	0.08 – 0.15 N·m
	Total preload	at Turning	1.5 – 4.0 kg-cm	1.3 – 3.5 in.-lb	0.15 – 0.39 N·m
	Thrust washer thickness	Mark			
		2	1.875 – 1.925 mm	0.0738 – 0.0758 in.	
		3	1.925 – 1.975 mm	0.0758 – 0.0778 in.	
		4	1.975 – 2.025 mm	0.0778 – 0.0797 in.	
		5	2.025 – 2.075 mm	0.0797 – 0.0817 in.	
		6	2.075 – 2.125 mm	0.0817 – 0.0837 in.	
		7	2.125 – 2.175 mm	0.0837 – 0.0856 in.	
		8	2.175 – 2.225 mm	0.0856 – 0.0876 in.	

**Torque Specifications**

Steering column	Part tightened		kg-cm	ft-lb	N·m
Steering column	Steering wheel set nut		350	25	34
	Column tube x Body	Bolt	185	13	18
		Nut	210	15	21
	Universal joint		360	26	35
	Upper tube x Lower tube		80	69 in.-lb	7.9
	Turn signal bracket		80	69 in.-lb	7.9
	Tilt pawl set nut		60	52 in.-lb	5.9
	Compression spring set bolt		80	69 in.-lb	7.9
	Tilt lever retainer set nut		50	43 in.-lb	4.9
Manual gear housing	No.2 joint protector clamp bolt		50	43 in.-lb	4.9
	Joint protector clamp bolt		50	43 in.-lb	4.9
	Joint protector set bolt		115	8	11
	Gear housing set bolt		970	70	95
	Tie rod x Knuckle arm		930	67	91
	No.1 and No.2 boot protector		115	8	11
	Rack end x Rack		725	52	71
	Pinion bearing adjusting screw lock nut		700	51	69
	Rack guide spring cap lock nut		570	41	56
Power steering (PS pump)	Tie rod end lock nut		900	65	88
	Union bolt		600	43	59
	Air control valve		370	27	36
	Reservoir tank set bolt		120	9	12
	Pulley set nut		440	32	43
	Cooling fan (LH series/2WD)		210	15	21
	PS pump x Bracket				
	(RZH series)		590	43	58
	(LH series/2WD)	Bolt	490	35	48
		Nut	650	47	64
	(LH series/4WD)	Through bolt	650	47	64
		Adjusting bolt	490	35	44
	Pressure port union		700	51	69
	Suction port union		130	9	13
	Front housing x Rear housing		170	12	17

**Torque Specifications (Cont'd)**

Power steering (PS gear housing)	Part tightened	kg-cm	ft-lb	N·m
	Gear housing set bolt or nut	970	70	95
	Tie rod x Knuckle arm	930	67	91
	Universal joint	360	26	35
	Pressure and return lines	450	33	44
	Pressure and return line clamp x Gear housing (2WD/RHD)	120	9	12
	LH differential support bracket			
	Long bolt	1,460	106	143
	Short bolt	970	70	95
	Differential support guard	130	9	13
	Turn pressure tube	200	14	20
	Control valve housing x Rack housing	185	13	18
	Bearing guide nut	250	18	25
	Rack guide spring cap lock nut	570	41	56
	Cylinder end stopper	800	58	78
	Rack end x Rack	900	65	88
	Tie rod end lock nut	900	65	88
Steering bevel gear housing	Bevel gear housing x Bracket			
	Front bolt	450	33	44
	Rear nut	400	29	39
	Universal joint	360	26	35
	Adjusting screw lock nut	890	64	87
	Housing cover	80	69 in.-lb	7.8
	Plate x Bevel gear housing	80	69 in.-lb	7.8
	Adjusting bolt lock nut	100	7	10