STEERING

Specifications

Steering	Steering wheel freep		Maximum	30 mm		1.18 in.	
column	Pawl stopper		Mark				
			1 or A	12.65 — 12.75 n	nm	0.4980	− 0.5020 in.
			2 or B	12.55 — 12.65 n	nm	0.4941	- 0.4980 in.
			3 or C	12.45 — 12.55 n	nm	0.4902	- 0.4941 in.
			4 or D	12.35 - 12.45 m	nm	0.4862	- 0.4902 in.
			5 or E	12.25 — 12.35 m	nm	0.4823	- 0.4862 in.
Manual gear	Sector shaft thrust cl	earance		0.05 mm		0.0020	in.
housing	Thrust washer thickn	ess (2WD)		1.95 mm		0.0768	in.
J				2.00 mm		0.0787	in.
				2.05 mm		0.0807	in.
				2.10 mm		0.0827	in.
				2.15 mm		0.0847	in.
	Thrust washer thickn	ess (4WD)		1.95 mm		0.0768	in.
				2.00 mm		0.0787	in.
				2.05 mm		0.0807	in.
	Worm bearing preload	d (2WD) at	t Starting	0.3 - 0.5 N·m 3	- 5 kg	f·cm 2	2.6 — 4.3 in.·lb
			Starting	0.3 - 0.5 N·m 3.	5 - 5	kgf∙cm 3	3.0 — 4.3 in.·lb
	Total preload		t Starting	0.8 — 1.0 N·m 8	- 10.5	kgf∙cm6	8.9 — 9.1 in.·lb
	·		Starting	0.8 — 1.1 N·m 8	- 11.0	kgf∙cm6	3.9 — 9.5 in.·lb
	Sector shaft end cover bushing				Ū		
	inside diameter (4V	/D)	Maximum	36.07 mm		1.4201	in.
Power	Drive belt tension		New belt	441 - 667 N·m	45 —		
steering			Used belt	265 — 441 N·m		_	60 - 100 lbf
on the state of th	Maximum rise of oil level			5 mm		0.20 in.	
	Oil pressure at idle sp	eed	Minimum	7,335 kPa	75 ka	f/cm ²	1,067 psi
	Steering effort		Maximum	39 N	4 kgf		8.8 lbf
			Maximum	29 N	3 kgf		6.6 lbf
	Rotor shaft bushing o			0.01 — 0.03 mm			- 0.0012 in.
			Maximum	0.07 mm		0.0028	
	Rotor to cam ring oil clearance						
	(RN series) Maximum			0.06 mm		0.0024	in.
	Vane plate to rotor groove clearance						
	Maximum		0.03 mm		0.0012	in.	
	Vane plate Minimum length		14.988 mm		0.5901		
	Minimum height		8.1 mm		0.319 in		
	Minimum thickness		1.797 mm		0.0707		
	Vane plate length Rotor and cam ring mark					·- ·-	
	None		14.996 — 14.998	mm	0.59039	– 0.59047 in	
		1		14.994 - 14.996			. — 0.59039 in
	1		,				
			2	14.992 14.994	·mm	ひっちゃいノ4	. — 0,59032 in
			2 3	14.992 — 14.994 14.990 — 14.992			- — 0.59032 in 5 — 0.59024 in

Specifications (Cont'd)

Power	Flow control valve spring	length			
steering		STD	37 mm	1.46	in.
(cont'd)		Minimum	35 mm	1.38	3 in.
(**************************************	Pump rotating torque	Maximum	0.3 N·m	2.8 kgf·cm	2.4 in.·lbf
	Worm gear valve body ba	III clearance	0.15 mm	0.00)59 in.
	Cross shaft adjusting scre	Cross shaft adjusting screw thrust clearance		mm 0.00)12 — 0.0020 in.
	Worm gear preload	at Starting			n 2.6 – 4.8 in.·lbf
	Total preload	at Starting	0.5 - 0.9 N·	m 5 — 9.5 kgf·cr	n 4.3 – 8.3 in.·lbf

Torque Specifications

Steering	Part tightened	N·m	kgf∙cm	ft·lbf
column	Steering wheel set nut	34	350	25
	Column tube x Body	25	260	19
	Breakaway bracket x Body	25	260	19
	Column hole cover x Body	7.8	80	69 in.·lbf
	Main shaft x Intermediate shaft	35	360	26
	Intermediate shaft x Worm shaft	35	360	26
	Turn signal bracket x Upper column tube	7.8	80	69 in.∙lbf
	Tilt pawl set nut	5.9	60	52 in.·lbf
	Compression spring set bolt	7.8	80	69 inlbf
	Tilt lever retainer set nut	15	150	11
	Protector x Breakaway bracket	19	195	14
	Tilt lever assembly installation bolt	2.0	20	17 in.·lbf
Manual gear	[2WD]			
housing	Gear housing x Body	118	1,200	87
	Intermediate shaft x Worm shaft	35	360	26
	Relay rod x Pitman arm	90	920	67
	Pitman arm x Sector shaft	123	1,250	90
	Worm bearing adjusting screw lock nut	109	1,110	80
	End cover set bolt	18	185	13
	Sector shaft adjusting screw lock nut	27	275	20
	Bleeder plug	7.4	75	65 in.·lbf
	[4WD]			
	Gear housing x Body	142	1,450	105
	Intermediate shaft x Worm shaft	35	360	26
	Pitman arm x Sector shaft	177	1,800	130
	Relay rod x Pitman arm	90	920	67
	Worm bearing adjusting screw lock nut	109	1,110	80
	End cover set bolt	93	1,000	72
	Sector shaft adjusting screw lock nut	44	450	33
	Bleeder plug	20	200	14

Torque Specifications (Cont'd)

Power	Part tightened		N·m	kgf∙cm	ft·lbf
steering	Pressure tube x PS pump (RN		36	370	27
(PS pump)	Return hose clamp	(RN series)	1.5	15	13 in.·lbf
		(VZN series)	3.9	40	35 in.·lbf
	Pressure tube union bolt		47	475	34
	Pulley set nut		43	440	32
	PS pump x Bracket				
	(RN series)		39	400	29
	(VZN series)	Through bolt	58	590	43
		Adjusting bolt	39	400	29
	PS pump x Adjusting stay (VZI	N series)	41	420	30
	Reservoir tank x PS pump (VZ	N series)			
		12 mm bolt	13	130	9
		14 mm bolt	41	420	30
	Suction port union (RN series)		13	130	9
	Air control valve		36	370	27
	Pressure port union		69	700	51
	Front housing x Rear housing	(RN series)	46	470	34
Power	Pressure tube		44	450	33
steering	Return tube	Union bolt	47	475	34
(Gear housing)		Others	49	500	36
	Return hose clamp	4WD	3.9	40	35 in.·lbf
	Intermediate shaft x Worm sha	ıft	35	360	26
	Gear housing x Body	2WD	118	1,200	87
		4WD	142	1,450	105
	Pitman arm x Cross shaft		177	1,800	130
	Cross shaft adjusting screw set	t nut	46	470	34
	Cross shaft end cover set bolt		46	470	34
	Bleeder plug		7.8	80	69 in.·lbf
	Plunger guide nut		20	205	15
	Worm gear valve body set bolt		46	470	34
	Solenoid valve set bolt (wl PPS	5)	10	100	7
Steering	Pitman arm x Sector shaft	MS	123	1,250	90
linkage		PS	177	1,800	130
(2WD)	Pitman arm x Relay rod		90	920	67
	Tie rod tube clamp bolt		25	260	19
	Tie rod x Relay rod		90	920	67
	Tie rod x Knuckle arm		90	920	67
	Relay rod x Idler arm		59	600	43
	Knuckle arm x Steering knuckle	9	108	1,100	80
	Steering damper x Frame		13	130	9
	Steering damper x Relay rod		59	600	43
	Idler arm x Idler arm bracket		78	800	58
	Idler arm bracket x Frame		118	1,200	87

Torque Specifications (Cont'd)

Steering	Part tightened	N·m	kgf∙cm	ft·lbf
linkage	Pitman arm x Sector shaft	177	1,800	130
(4WD)	Pitman arm x Relay rod	90	920	67
	Tie rod tube clamp bolt	25	260	19
	Tie rod x Relay rod	90	920	67
	Tie rod x Knuckle arm	90	920	67
	Relay rod x Idler arm	59	600	43
	Relay rod x Steering damper	59	600	43
	Knuckle arm x Steering knuckle	183	1,870	135
	Idler arm x Idler arm bracket	78	800	58
	Idler arm bracket x Frame	142	1,450	105

BODY Torque Specifications

Part tightened	N·m	kgf∙cm	ft·lbf
MOON ROOF			
Removable roof hinge case x Body	3.4	35	30 in.·lbf
Removable roof lock base x Body	5.9	60	52 in.·lbf
Removable roof hinge x Removable roof	2.9	30	26 in.·lbf
Removable roof handle x Removable roof	2.9	30	26 in.·lbf
ONE-TOUCH TAIL GATE			
Tail gate stay x Tail gate	14	140	10
SEAT			
Front Seat			
Seat adjuster x Body	37	375	27
Rear Jump Seat (Extra Cab)			
Back panel trim x Body	4.9	50	43 in.·lbf
Seat cushion x Body	4.9	50	43 in.·lbf
SEAT BELT			
Seat belt anchor x Body	43	440	32
Seat belt guide x Body	43	440	32
Buckle x Body	43	440	32