

POWER STEERING

SERVICE DATA

POWER STEERING FLUID		
Fluid level rise	Maximum	5 mm (0.20 in.)
Fluid pressure at idle speed with valve closed		7,300 to 7,800 kPa (75 to 80 kgf/cm ² , 1,067 to 1,138 psi)
STEERING WHEEL		
Steering effort at idle speed	(Reference)	6.0 N*m (60 kgf*cm, 53 in.*lbf)
VANE PUMP ASSEMBLY		
Vane pump rotating torque		0.27 N*m (2.8 kgf*cm, 2.4 in.*lbf) or less
Vane pump shaft and vane pump housing oil clearance	STD	0.021 to 0.043 mm (0.0008 to 0.0017 in.)
	Maximum	0.07 mm (0.0028 in.)
Vane plate thickness	Minimum	1.405 mm (0.0553 in.)
Clearance between the rotor groove and plate	Maximum	0.03 mm (0.0012 in.)
Spring free length	Minimum	36.9 mm (1.453 in.)
RACK & PINION POWER STEERING GEAR ASSEMBLY		
Steering rack runout	Maximum	0.1 mm (0.004 in.)
Tie rod assembly stud bolt torque	(Turning)	0.49 to 3.43 N*m (5.0 to 35.0 kgf*cm, 4.34 to 30.38 in.*lbf)
Total preload (Control valve rotating torque)	(Turning)	1.0 to 1.8 N*m (10 to 18 kgf*cm, 8.6 to 15.7 in.*lbf)
Rack boot clamp clearance		2.0 mm (0.079 in.) or less

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TORQUE SPECIFICATIONS

Part Tightened		N*m	kgf*cm	ft*lbf
VANE PUMP ASSEMBLY				
Vane pump housing rear x Vane pump housing front		22	220	16
Power steering oil pressure switch		21	210	15
Pressure port union sub-assembly		69	700	51
Power steering suction port union set bolt		12	120	9
Vane pump assembly x Pump bracket rear		37	380	27
Vane pump assembly set bolt		37	380	27
Pressure feed tube assembly x Vane pump assembly		41 (44)	420 (450)	30 (33)
Pressure feed tube assembly clamp set bolt		7.8	80	69 in.*lbf
RACK & PINION POWER STEERING GEAR ASSEMBLY				
Engine hanger set bolt		38	390	28
Control valve housing set bolt		18	185	13
Control valve shaft lock nut		25	250	18
Rack housing cap		59	600	43
Rack guide spring cap lock nut		43 (59)	440 (600)	32 (43)
Rack x Rack end sub-assembly		62 (83)	630 (850)	46 (61)
Turn pressure tube union nut		12 (13)	120 (130)	9 (9)
Tie rod end sub-assembly lock nut		74	750	54
Rack & pinion power steering gear assembly set bolt		58	590	43
Steering intermediate shaft x Control valve pinion shaft		35	360	26
Front suspension crossmember sub-assembly x Frame	Bolt A	157	1,600	116
	Bolt B	113	1,152	83
Crossmember x Engine mounting insulator RR		52	530	38
Center member x Frame		60	612	44
Center member x Engine mounting insulator FR		52	530	38
Front suspension arm sub-assembly lower No. 1 x Lower ball joint		89	910	66
Front stabilizer link assembly set nut		74	750	55
Pressure feed tube assembly x Rack & pinion steering gear assembly		23 (25)	235 (255)	17 (18)
Steering gear outlet return tube x Rack & pinion steering gear assembly		23 (25)	235 (255)	17 (18)
Pressure feed tube clamp set bolt		7.8	80	69 in.*lbf
Tie rod end sub-assembly x Steering knuckle		49	500	36
Steering intermediate shaft assembly No. 2 set bolts		35	360	26
Front wheel set nut		103	1,050	76

(): For use without SST

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