

POWER STEERING

SERVICE DATA

POWER STEERING FLUID		
Fluid level rise	Maximum	5 mm (0.20 in.)
Fluid pressure at idle speed with valve closed		7,800 to 8,300 kPa (80 to 85 kgf/cm ² , 1,138 to 1,209 psi)
STEERING WHEEL		
Steering effort at idle speed	(Reference)	6.0 N*m (60 kgf*cm, 53 in.*lbf)
VANE PUMP ASSEMBLY/ VANE PUMP ASSEMBLY (From September, 2003)		
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	0.027 to 0.054 mm (0.00106 to 0.00213 in.)
	Maximum	0.07 mm (0.0028 in.)
Vane plate thickness	Minimum	1.397 to 1.403 mm (0.0550 to 0.05524 in.)
Clearance between the rotor groove and plate	Maximum	0.03 mm (0.0012 in.)
Spring free length	Minimum	32.24 mm (1.2693 in.)
POWER STEERING LINK ASSEMBLY		
Tie rod assembly stad bolt torque	(Turning)	0.49 to 3.43 N*m (5.0 to 35.0 kgf*cm, 4.3 to 30.4 in.*lbf)
Steering rack runout	Maximum	0.3 mm (0.0118 in.)
Total preload (Control valve rotating torque)	(Turning)	1.2 to 1.5 N*m (12.2 to 15.3 kgf*cm, 10.6 to 13.3 in.*lbf)
Rack boot clamp clearance		3.0 mm (0.118 in.) or less

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TORQUE SPECIFICATIONS

Part tightened	N*m	kgf*cm	ft*lbf
VANE PUMP ASSEMBLY			
Pump bracket front x Housing front	43	438	32
Housing rear x Housing front	24	245	18
Pump bracket rear x Housing rear	43	438	32
Pressure port union	83	846	61
Suction port union set bolt	13	133	10
Pump pulley set nut	44	449	32
Pump assembly set bolt	43	438	32
Pressure feed tube assembly set union bolt	52	525	38
Oil pressure switch	21	214	15
VANE PUMP ASSEMBLY (From September, 2003)			
Pump bracket front x Housing front	44	449	32
Housing rear x Housing front	24	245	18
Pump bracket rear x Pump bracket front	44	449	32
Pressure port union	83	846	61
Suction port union set bolt	13	133	10
Pump assembly set bolt	43	438	32
Pressure feed tube assembly set union bolt	52	525	38
Oil pressure switch	21	214	15
POWER STEERING LINK ASSEMBLY			
Control valve housing set bolt	21	214	15
Control valve shaft lock nut	25	250	18
Rack housing cap	59	597	43
Rack guide spring cap lock nut	51 (69)	515 (699)	38 (51)
Rack x Rack end sub-assembly	50 (84)	505 (851)	37 (62)
Tie rod assembly lock nut	74	750	55
Turn pressure tube union nut	12 (13)	122 (127)	9 (9)
Steering link assembly set bolt	70	714	52
Pressure feed tube assembly union nut	22 (24.5)	230 (250)	16 (18)
Pressure feed tube clamp set bolt	9.8	100	87 in.*lbf
Pressure feed tube clamp set nut	9.8	100	87 in.*lbf
Stabilizer bracket No.1 x Suspension crossmember	16	163	12
Intermediate shaft assembly x Steering link assembly	35	360	26

(): For use without SST