

# POWER STEERING

## SERVICE DATA

POWER STEERING SYSTEM		
fluid level rise	Maximum	5 mm (0.20 in)
Fluid pressure at idle speed with valve closed		5,900 kPa (60 kgf/cm <sup>2</sup> , 852 psi)
Steering effort at idle speed (Reference)	(Reference)	6 N*m (60 kgf*cm, 53 in.*lbf)
VANE PUMP ASSEMBLY (From April, 2004)		
Vane pump shaft and vane pump housing oil clearance	Maximum	0.07 mm (0.0028 in)
Clearance between the roter groove and plate	Minimum	1.404 to 1.411 mm(0.05531 to 0.05555 in.)
Spring free length	Maximum	0.03 mm (0.0012 in.)
Vane pump rotating torque	Minimum	29.2 mm (1.150 in.)
Vane pump rotating torque		0.27 N*m (2.8 kgf*cm, 2.4 in.*lbf)
POWER STEERING LINK ASSEMBLY (From April, 2004)		
Power steering rack runout	Maximum	0.1 mm (0.004 in.)
Tie rod rotating torque	(Turning)	0.8-34.7 kgf*cm, 7.1 - 30.1 in.*lbf
Total preload (Control valve rotating torque)	(Turning)	1.2 - 1.5 N*m (12 - 15 kgf*cm, 10.6 - 13.3in.*lbf)

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## TORQUE SPECIFICATIONS

Part tightened	N*m	kgf*cm	ft.*lbf
<b>VANE PUMP ASSEMBLY</b>			
Vane pump housing rear x Vane pump housing front	22	224	16
Power steering oil pressure sensor	21	214	15
Pressure port union	69	704	51
Pump bracket front x Vane pump bracket rear	44	449	32
Oil reservoir set bolt	9.0	92	80 in.*lbf
Vane pump assembly set bolt	44	449	32
Vane pump housing rear x Power steering pump heat insulator	44	449	32
Pressure feed tube assembly x Vane pump assembly	44.1 (41)	450 (414)	33 (30)
<b>POWER STEERING LINK ASSEMBLY</b>			
Control vane housing x Rack housing	21	214	15
Rack guide spring cap lock nut	28 (39)	286 (398)	21 (29)
Power steering rack x Steering rack end sub-assembly	60 (83.4)	614 (850)	44 (61)
Tie rod end sub-assembly lock nut	74	750	54
Steering right and left turn pressure tubes	12 (13)	118 (133)	9 (10)
Power steering link assembly set bolt	74	749	54
Steering intermediate shaft set bolt	28	290	21
Power steering rack housing heat insulator set bolt	(a):	18	178
	(b):	35	360
Front suspension crossmember sub-assembly set bolt	A:	116	1,183
	B:	70	714
Engine mounting insulator RR x Front suspension crossmember sub-assembly	72	734	53
Front suspension member reinforcement LH and RH set bolt	47	479	35
Pressure feed tube assembly x Power steering link assembly	27 (25)	273 (255)	20 (18)
Pressure feed assembly clamp set bolt	7.8	80	69 in.*lbf
Steering sliding yoke sub-assembly x Steering intermediate shaft	28	290	21

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