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 (79.5 to 84.6 kgf/cm^2, 1,131 to 1,204 psi)
Fluid pressure at idle speed with valve fully open and turn the steering wheel to the full lock position	7,800 to 8,300 kPa (79.5 to 84.6 kgf/cm^2, 1,131 to 1,204 psi)

STEERING WHEEL

Steering effort at idle speed (Reference)	6.0 N*m (61 kgf*cm, 53 in.*lbf)

VANE PUMP

Vane pump shaft and vane pump housing oil clearance (Maximum)	0.07 mm (0.0028 in.)
Vane plate thickness (Standard)	1.405 to 1.411 mm (0.05531 to 0.05555 in.)
Clearance between the vane pump rotor groove and vane pump plate (Maximum)	0.03 mm (0.0012 in.)
Compression spring free length (Minimum)	29.2 mm (1.150 in.)
Vane pump rotating torque	0.27 N*m (2.8 kgf*cm, 2.4 in.*lbf) or less

RACK AND PINION POWER STEERING GEAR

Steering rack runout (Maximum)	0.3 mm (0.012 in.)
Tie rod end sub-assembly stud bolt turning torque	0.83 to 3.43 N*m (8.5 to 35.0 kgf*cm, 7.3 to 30.4 in.*lbf)
Total preload (Control valve rotating torque)	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

TORQUE SPECIFICATIONS

VANE PUMP

Part tightened	N*m	kgf*cm	ft.*lbf
Vane pump rear housing x Vane pump front housing	22	224	16
Pressure port union x Vane pump front housing	69	704	51
Power steering fluid pressure switch x Vane pump assembly	21	214	16
Power steering suction port union x Vane pump assembly	12	122	9
Vane pump assembly set bolts	29 (43)	294 (439)	21 (32)
Pressure feed tube assembly x Vane pump assembly (union bolt)	50	510	37
Front wheel RH set nuts	103	1050	76

( ): For use without SST

POWER STEERING GEAR

Part tightened	N*m	kgf*cm	ft.*lbf
Control valve housing set bolt	18	184	13
Control valve shaft lock nut	25	250	18
Rack housing cap	59	597	43
Rack guide spring cap lock nut	48 (68.5)	489 (699)	35 (51)
Rack x Rack end sub-assembly	58.5 (83.5)	597 (851)	43 (62)
Tie rod assembly lock nut	74	755	55
Turn pressure tube union nut	11.5 (12.5)	117 (127)	8 (9)
Return tube No.2	22.5 (24.5)	229 (250)	17 (18)
Steering gear assembly set bolt	70	714	52
Pressure feed tube assembly union nut	22.5 (24.5)	229 (250)	17 (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	17	173	12
Intermediate shaft assembly x Steering gear assembly	36	367	27

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