

POWER STEERING

SERVICE DATA

030BM-01

POWER STEERING FLUID		
Fluid level rise	Maximum	5 mm (0.20 in.)
Fluid pressure at idle speed with valve closed		7,400 kPa (75 kgf/cm ² , 1,067 psi)
STEERING WHEEL		
Steering effort at idle speed	(Reference)	6 N·m (60 kgf·cm, 53 in.·lbf) or less
POWER STEERING VANE PUMP (1AZ-FE)		
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 Maximum	0.021 – 0.043 mm (0.0008 – 0.0017 in.) 0.07 mm (0.0028 in.)
Vane plate height	Minimum	7.6 mm (0.299 in.)
Vane plate thickness	Minimum	1.405 mm (0.0553 in.)
Vane plate length	Minimum	11.993 mm (0.4722 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.)
POWER STEERING VANE PUMP (1CD-FTV)		
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 seal clearance	STD Maximum	0.032 – 0.049 mm (0.0012 – 0.0018 in.) 0.07 mm (0.0028 in.)
Vane plate height	Minimum	8.6 mm (0.339 in.)
Vane plate thickness	Minimum	1.397 mm (0.05500 in.)
Vane plate length	Minimum	14.991 mm (0.59020 in.)
Vane plate and vane rotor groove clearance	Maximum	0.03 mm (0.0012 in.)
Spring free length	Minimum	33.2 mm (1.307 in.)
POWER STEERING GEAR		
Tie rod end sub-assy turning torque	(Turning)	0.49 – 3.43 N·m (5 – 35 kgf·cm, 4.3 – 30.4 in.·lbf)
Steering rack runout	Maximum	1.5 mm (0.059 in.)
Total preload (Control valve rotating torque)	(Turning)	1.1 – 1.5 N·m (11 – 15 kgf·cm, 9.7 – 13.0 in.·lbf)