

STEERING

SERVICE DATA

SSOCO-07

POWER STEERING FLUID		
Fluid level rise	Maximum	5 mm (0.20 in.)
Fluid pressure at idle speed with valve closed	Minimum	7,355 kPa (75 kgf/cm ² , 1,067 psi)
STEERING WHEEL		
Steering wheel freeplay	Maximum	30 mm (1.18 in.)
Steering effort at idle speed	Maximum	5.4 N·m (55 kgf·cm, 48 in.-lbf)
STEERING COLUMN		
Pawl stopper	Mark	
	1 or A	12.68 – 12.74 mm (0.4992 – 0.5016 in.)
	2 or B	12.61 – 12.67 mm (0.4965 – 0.4988 in.)
	3 or C	12.54 – 12.60 mm (0.4937 – 0.4961 in.)
	4 or D	12.47 – 12.53 mm (0.4909 – 0.4933 in.)
	5 or E	12.40 – 12.46 mm (0.4882 – 0.4906 in.)
	6 or F	12.33 – 12.39 mm (0.4854 – 0.4878 in.)
	7 or G	12.26 – 12.32 mm (0.4827 – 0.4850 in.)
PS VANE PUMP		
Pump shaft x Bushing oil clearance (SC 400)	STD	0.01 – 0.03 mm (0.0004 – 0.0012 in.)
Pump shaft x Bushing oil clearance (SC 300)	STD	0.03 – 0.05 mm (0.0012 – 0.0020 in.)
Pump shaft x Bushing oil clearance	Maximum	0.07 mm (0.0028 in.)
Vane plate to rotor groove clearance (SC 400)	Maximum	0.03 mm (0.0012 in.)
Vane plate to rotor groove clearance (SC 300)	Maximum	0.04 mm (0.0016 in.)
Vane plate length (SC400)	Minimum	14.97 mm (0.5894 in.)
Vane plate height (SC400)	Minimum	8.0 mm (0.315 in.)
Vane plate thickness (SC400)	Minimum	1.77 mm (0.0697 in.)
Vane plate length (SC300)	Minimum	14.99 mm (0.5902 in.)
Vane plate height (SC300)	Minimum	8.6 mm (0.339 in.)
Vane plate thickness (SC300)	Minimum	1.40 mm (0.0551 in.)
Vane plate length (SC400)	Rotor and cam ring mark	
	NONE	14.996 – 14.998 mm (0.59039 – 0.59047 in.)
	1	14.994 – 14.996 mm (0.59031 – 0.59039 in.)
	2	14.992 – 14.994 mm (0.59024 – 0.59031 in.)
	3	14.990 – 14.992 mm (0.59016 – 0.59024 in.)
	4	14.988 – 14.990 mm (0.59007 – 0.59016 in.)
Vane plate length (SC300)	Rotor and cam ring mark	
	NONE	14.999 – 15.001 mm (0.59051 – 0.59059 in.)
	1	14.997 – 14.999 mm (0.59043 – 0.59051 in.)
	2	14.995 – 14.997 mm (0.59035 – 0.59043 in.)
	3	14.993 – 14.995 mm (0.59027 – 0.59035 in.)
	4	14.991 – 14.993 mm (0.59020 – 0.59027 in.)
Spring free length (SC400)	Minimum	36.9 mm (1.453 in.)
Spring free length (SC300)	Minimum	33.0 mm (1.299 in.)
Vane pump rotating torque		0.3 N·m (2.8 kgf·cm, 2.4 in.-lbf)

SERVICE SPECIFICATIONS – STEERING

PS GEAR		
Steering rack runout	Maximum	0.30 mm (0.0118 in.)
Total preload		1.0 – 1.9 N·m (10 – 20 kgf·cm, 8.7 – 17.4 in.-lbf)
Solenoid valve resistance		6.0 – 11.0 Ω