POWER STEERING

0302F–07

SERVICE DATA

POWER STEERING SYSTEM		
Fluid temperature		75 – 80°C (167 – 176°F)
Fluid level rise	Maximum	5 mm (0.20 in.)
Fluid pressure at idle speed with valve closed	Minimum	
	4 ton model	9,300 kPa (95 kgf/cm^2, 1,351 psi)
	2 ton model	7,400 kPa (75 kgf/cm^2, 1,067 psi)
Fluid pressure at 1,000 and 3,000 rpm with valve open		
	Difference fluid pressure	490 kPa (5 kgf/cm^2, 71 psi) or less
Steering effort at idle speed	Reference	6 N·m (60 kgf·cm, 53 in.·lbf) or less
POWER STEERING VANE PUMP (5L)		
Vane pump rotating torque		0.27 N·m (2.75 kgf·cm, 2.39 in.·lbf) or less
Vane pump shaft and vane pump housing oil clearance	STD	0.020 – 0.087 mm (0.00079 – 0.000343 in.)
	Maximum	0.087 mm (0.000343 in.)
Vane plate height	Minimum	8.6 mm (0.339 in.)
Vane plate thickness	Minimum	1.397 mm (0.0550 in.)
Vane plate length	Minimum	14.991 mm (0.5902 in.)
Clearance between the rotor groove and plate	Maximum	0.03 mm (0.0012 in.)
Spring free length	Minimum	33.4 mm (1.315 in.)
Vane pump shaft bearing	Press–fit depth	3.6 – 3.9 mm (0.142 – 0.154 in.)
POWER STEERING GEAR ASSY		
Sector shaft thrust clearance	Maximum	0.15 mm (0.0059 in.)
Power piston	Rotating torque	0.35 – 1.0 N·m (3.6 – 10.2 kgf·cm, 3.1 – 8.9 in.·lbf)
Total preload	Turning	0.2 – 0.4 N·m (2 – 4 kgf·cm, 1.7 – 3.5 in.·lbf)
STEERING LINKAGE		
Steering drag link	Turning torque	4 – 8 N·m (41 – 82 kgf·cm, 35 – 71 in.·lbf)
Tie rod end	Turning torque	4 – 8 N·m (41 – 82 kgf·cm, 35 – 71 in.·lbf)
Tie rod end sub–assy Length	4 ton model	1,435 mm (56.50 in.)
	2 ton model	1,425 mm (56.10 in.)