



SPECIFICATIONS

POWER STEERING

Items	Specifications
Shaft and joint type	Cross joint, tilt column with pop-up weight
Steering gear type	Rack and pinion
Rack stroke	144 ± 1 mm (lock to lock : 3.15 turns)
Power steering pump type	Vane type
Oil pump displacement	9.6cm ³ /rev. MAX. (0.59 in ³ /rev. MAX.)

SERVICE STANDARD

POWER STEERING

Items	Specifications
Steering wheel free play	0~30mm (0~1.1 in.)
Steering angle	40°1' ± 2°
Inner wheel	33°45'
Outer wheel	2° or less
Difference between LH and RH	29N (3.0kg, 6.5lbs) or less
Stationary steering effort	6~9mm
Belt deflection [under 98N (10kg, 22lb) force]	8.3~8.8 MPa (85~90 kg/cm ² , 1209~1280 psi)
Oil pump relief pressure	0.6~1.3 Nm (6~13 kg.cm, 5.2~11.3 lb.in.)
Total pinion preload	2~5 Nm (20~50 kg.cm, 1.4~3.6 lb.ft)
Tie rod swing resistance	

TIGHTENING TORQUE

Item	Nm	kg-cm	lb-ft
Steering wheel and shaft (with Airbag)	35~45	350~450	26~33
Steering column and shaft assembly mounting bracket	13~18	130~180	9.6~13.3
Steering shaft and joint	15~20	150~200	11~15
Joint to gear box	15~20	150~200	11~15
Dust cover mounting bolt	17~26	170~260	12.5~19.2
Gear box to body	60~80	600~800	44~59
Tie rod end lock nut	50~55	500~550	36.9~40.6
Tie rod end ball joint slotted nut	24~34	240~340	17.7~25
Yoke plug lock nut	50~70	500~700	37~52
Tie rod to rack	80~100	800~1000	59~74
Valve body housing to rack housing assembly	20~30	200~300	14.8~30.7
Pressure and return tube to gear box	12~18	120~180	9~13

Pinion and valve assembly to self-locking nut	20~30	200~300	15~22
Feed tube	12~18	120~180	9~13
Oil pump to mounting bracket	35~50	350~500	25.8~36.9
Oil pump bracket to engine	35~50	350~500	25.8~36.9
Pressure hose to oil pump	55~65	550~650	40.6~47.9
Oil reservoir mounting bolt	4~6	40~60	3.0~44

LUBRICANTS

Item	Recommended lubricant	Quantity
Horn contact ring of steering wheel	CENTOPLX278 (KLUBER KOREA)	As required
Bearing of steering shaft	ALVANIA #2 OR #3 (KEUK DONG SHELL, KOREA)	As required
Ball joint of tie rod end	SHOWA SUNLIGHT MB-2 OR equivalent	As required
Steering gear housing	ONE-LUBER RP GREASE (KYODOYUSHI, JAPAN)	As required
Inner ball joint of gear box	LONG TIME PD2 (OPTIMOL, GERMAN)	As required
Contact area of gear box bellows & tie rod	SILICON GREASE (SPEC NO : MS511-41)	As required
Power steering fluid	PSF-3	0.75~0.8 liter (0.79~0.84 qts.)