

1. Steering System

A: SPECIFICATIONS

Model		Except OUTBACK	OUTBACK	
Whole system	Minimum turning radius	m (ft)	5.4±0.5 (17.7±1.6)	5.6±0.5 (18.4±1.6)
	Steering angle (Inside-Outside)		36.3°±1.5° — 31.6°±1.5°	34.5°±1.5° — 30.3°±1.5°
	Steering wheel diameter	mm (in)	385 (15.16)	
	Overall gear ratio (Turns, lock to lock)		16.5 (3.2)	19.0 (3.4)
Gearbox	Type	Rack and pinion, Integral		
	Backlash	0 (Automatically adjustable)		
	Valve (Power steering system)	Rotary valve		
Pump (Power steering system)	Type	Vane pump		
	Oil tank	Installed on body		
	Output	cm ³ (cu in)/rev.	7.2 — 0.6 (0.439 — 0.037)	
	Relief pressure	kPa (kg/cm ² , psi)	9,807 (100, 1,422)	
	Hydraulic fluid control	Dropping in response to increased engine revolutions		
	Hydraulic fluid	ℓ (US qt, Imp qt)	1,000 rpm: 6 (6.3, 5.3) 3,000 rpm: 5 (5.3, 4.4)	
	Range of revolution	rpm	500 — 9,000	
Revolving direction	Clockwise			
Working fluid (Power steering system)	Name	ATF DEXRON IIE or III		
	Capacity	Oil tank	ℓ (US qt, Imp qt)	0.3 (0.3, 0.3)
		Total	ℓ (US qt, Imp qt)	0.7 (0.7, 0.6)

B: SERVICE DATA

Model		LHD	RHD	
Steering wheel	Free play	mm (in)	17 (0.67)	
Turning angle	Inner tire & wheel	Except OUTBACK model	36.3°±1.5°	
		OUTBACK model	34.5°±1.5°	
	Outer tire & wheel	Except OUTBACK model	31.6°±1.5°	
		OUTBACK model	30.3°±1.5°	
Steering shaft	Clearance between steering wheel and column cover	mm (in)	3.0 (0.118)	
Steering gearbox (Power steering system)	Sliding resistance		N (kg, lb)	304.0 (31.0, 68.4) or less
	Rack shaft play in radial direction	Right-turn steering	mm (in)	0.15 (0.0059) or less
		Left-turn steering	mm (in)	Horizontal movement: 0.3 (0.012) or less Vertical movement: 0.15 (0.0059) or less
	Input shaft play	In radial direction	mm (in)	0.18 (0.0071) or less
		In axial direction	mm (in)	0.1 (0.004) or less
	Turning resistance		N (kg, lb)	Within 30 mm (1.18 in) from rack center in straight ahead position: Less than 11.18 (1.14, 2.51) Maximum allowable value: 12.7 (1.3, 2.9)
Oil pump (Power steering system)	Pulley shaft	Radial play	mm (in)	0.4 (0.016) or less
		Axial play	mm (in)	0.6 (0.024) or less
	Pulley	Ditch deflection	mm (in)	1.0 (0.039) or less
		Resistance to rotation	N (kg, lb)	9.22 (0.94, 2.07) or less
	Regular pressure		kPa (kg/cm ² , psi)	981 (10, 142) or less
	Relief pressure		kPa (kg/cm ² , psi)	9,807 (100, 1,422)
Steering wheel effort (Power steering system)	At standstill with engine idling on a concrete road		N (kg, lb)	29.4 (3.0, 6.6) or less
	At standstill with engine stalled on a concrete road		N (kg, lb)	294.2 (30, 66.2) or less

C: RECOMMENDED POWER STEERING FLUID

Recommended power steering fluid	Manufacturer
ATF DEXRON IIE or III	B.P.
	CALTEX
	CASTROL
	MOBIL
	SHELL
	TEXACO

MEMO: