1. General Description

A: SPECIFICATION

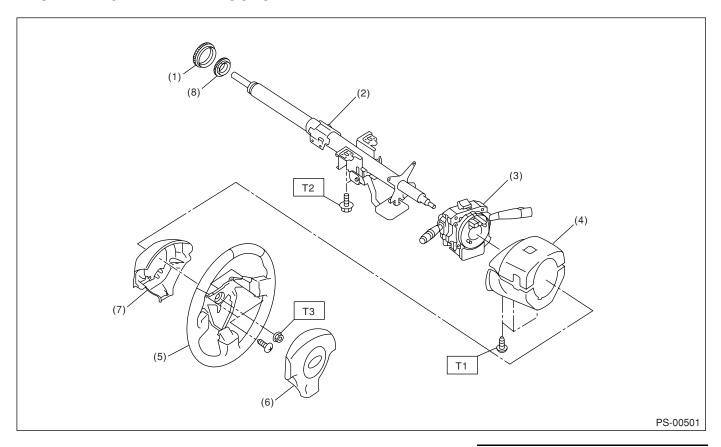
Model		OUTBACK Except for 3.0 R OUTBACK 3.0 R				
	Minimum turning radius m (ft)		5.4 (17.8)			
Whole system	Ctooring angle	Inner wheel	Except for OUTBACK: 37.2°±	-1.5°, OUTBACK: 38.0°±1.5°		
	Steering angle	Outer wheel	Except for OUTBACK: 33.0°±	Except for OUTBACK: 33.0°±1.5°, OUTBACK: 33.7°±1.5°		
	Steering wheel diameter mm (in)		375 (14.76)			
	Lock to lock turn		Except for 2.5 GT: 3.2, 2.5 GT: 2.8			
	Type		Rack and Pinion, Integral			
Gearbox	Backlash		0 (Automatically adjustable)			
	Valve (Power steering system)		Rotary valve			
	Туре		Vane pump			
	Oil tank		Installed on body			
	Specific output	cm3 (cu in)/rev.	8.5 (0.519)	9.6 (0.586)		
Pump (Power	Relief pressure kl	Pa (kg/cm ² , psi)	7,350 — 8,036 (75 — 82, 1,067 — 1,165)	8,300 — 9,000 (85 — 92, 1,204 — 1,305)		
steering	Hydraulic fluid control		Dropping in response to increased engine revolutions			
system)	Hydraulic fluid Q	(US qt, Imp qt)	1,000 rpm: 6.15 (6.5, 5.4) 3,000 rpm: 5.5 (5.8, 4.8)	1,000 rpm: 6.5 (6.9, 5.7) 3,000 rpm: 5.5 (5.8, 4.8)		
	Range of revolution rpm		680 — 9,600			
	Revolving direction		Clockwise			
Working	Fluid		ATF DEXRON III or equivalent			
fluid	Capacity (US qt, Imp qt)	Oil tank	0.2 (0.2, 0.2)			
(Power steering system)		Whole sys- tem	0.7 (0.7, 0.6)			

Steering wheel	Free play		mm (in)	17 (0.67)
Steering shaft	Clearance between steering wheel and column cover		mm (in)	3.0 (0.12)
	Sliding resistance		N (kgf, lb)	314 (32, 71) or less Difference between right and left sliding resistance: Less than 20%
Steering	Rack shaft play in radial direction	Right-turn steering	mm (in)	0.3 (0.012) or less
gearbox (Power		Left-turn steering	mm (in)	Horizontal movement: 0.6 (0.024) or less Vertical movement: 0.4 (0.016) or less
steering	lanut aboft alou	In radial direction	mm (in)	0.18 (0.0071) or less
system)	Input shaft play	In axial direction	mm (in)	0.27 (0.0106) or less
	Resistance to rotation		N (kgf, lb)	Maximum allowable value: 10.5 (1.07, 2.36) or less Difference between right and left sliding resistance: Less than 20%
	Pulley shaft	Radial play	mm (in)	0.4 (0.016) or less
Oil pump		Axial play	mm (in)	0.9 (0.035) or less
(Power	Pulley	Ditch deflection	mm (in)	1.0 (0.039) or less
steering system)		Resistance to rotation	N (kgf, lb)	9.22 (0.94, 2.07) or less
oyoto,	Regular pressure (Unloaded)		kPa (kg/cm ² , psi)	981 (10, 142) or less
Steering wheel	At standstill with engine idling on a concrete road		N (kgf, lb)	29.4 (3.0, 6.6) or less
effort (Power steering system)	At standstill with crete road	engine stalled on a con-	N (kgf, lb)	294.2 (30, 66.2) or less

Recommended power steering fluid	Manufacturer
	B.P.
	CALTEX
ATF DEXRON III or equivalent	CASTROL
AT DEANON III OI equivalerit	MOBIL
	SHELL
	TEXACO

B: COMPONENT

1. STEERING WHEEL AND COLUMN



- (1) Bushing
- Steering shaft (2)
- (3) Steering roll connector
- Column cover (4)

- (5) Steering wheel
- (6) Airbag module
- (7) Steering wheel lower cover
- (8) Insulator

Tightening torque: N⋅m (kgf-m, ft-lb)

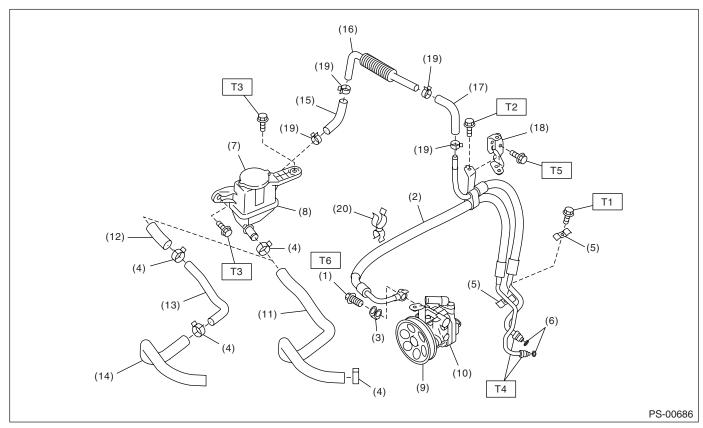
T1: 1.2 (0.12, 0.9)

T2: 25 (2.5, 18.1)

T3: 45 (4.6, 33.2)

2. POWER ASSISTED SYSTEM

Hose and tank (H4 model)



- (1) Eye bolt
- (2) Hose
- (3) Eye bolt gasket
- (4) Clip
- (5) Clamp E
- (6) O-ring
- (7) Cap
- (8) Reservoir tank
- (9) Pulley
- (10) Oil pump

- (11) Suction hose (Non-turbo model)(12) Suction hose (Turbo model)
- (13) Suction hose (Turbo model)
- (14) Suction hose (Turbo model)
- (15) Return hose
- (16) Oil cooler
- (17) Return hose
- (18) Hose bracket
- (19) Clip
- (20) Clip

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 7.4 (0.75, 5.4)

T2: 10 (1.02, 7.4)

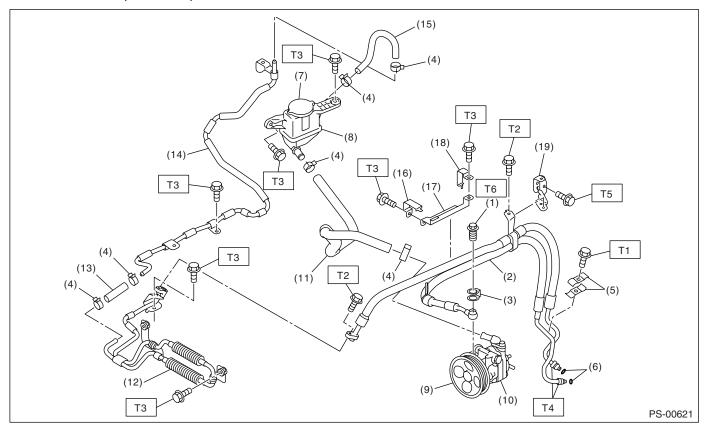
T3: 13 (1.32, 9.6)

T4: 15 (1.5, 10.8)

T5: 18 (1.84, 13.3)

T6: 39 (3.98, 28.8)

• Hose and tank (H6 model)



- (1) Eye bolt
- (2) Hose
- (3) Eye bolt gasket
- (4) Clip
- (5) Clamp E
- (6) O-ring
- (7) Cap
- (8) Reservoir tank
- (9) Pulley

- (10) Oil pump
- (11) Suction hose
- (12) Cooler pipe
- (13) Return hose
- (14) Return hose
- (15) Return hose
- (16) Hose bracket A
- (17) Hose bracket B
- (18) Hose bracket C

(19) Hose bracket D

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 7.4 (0.75, 5.4)

T2: 10 (1.02, 7.4)

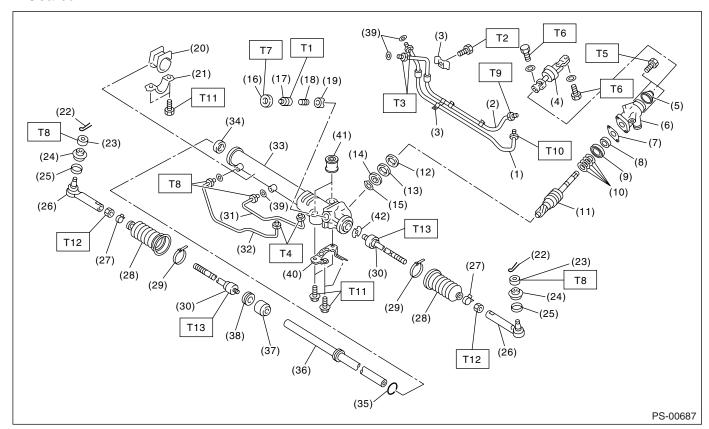
T3: 13 (1.32, 9.6)

T4: 15 (1.5, 10.8)

T5: 18 (1.84, 13.3)

T6: 39 (3.98, 28.8)

Gearbox



- (1) Pipe C
- (2) Pipe D
- (3) Clamp plate
- (4) Universal joint
- (5) Dust seal
- (6) Valve housing
- (7) Gasket
- (8) Oil seal
- (9) Bushing
- (10) Seal ring
- (11) Pinion & valve ASSY
- (12) Oil seal
- (13) Back-up washer
- (14) Ball bearing
- (15) Snap ring
- (16) Lock nut
- (17) Adjusting screw
- (18) Spring
- (19) Sleeve

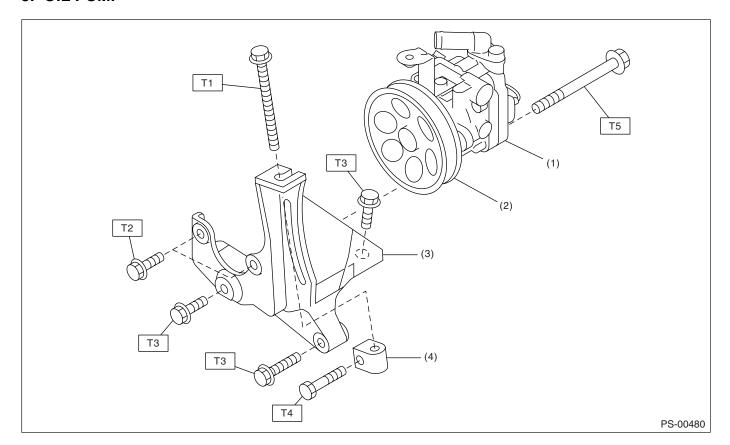
- (20) Adapter
- (21) Clamp
- (22) Cotter pin
- (23) Castle nut
- (24) Dust cover
- (25) Clip
- (26) Tie-rod end
- (27) Clip
- (28) Boot
- (29) Band
- (30) Tie-rod
- (00) 110 10
- (31) Pipe B
- (32) Pipe A
- (33) Steering body
- (34) Oil seal
- (35) Piston ring
- (36) Rack
- (37) Rack bushing
- (38) Holder

- (39) O-ring
- (40) Bracket
- (41) Bushing
- (42) Lock washer

Tightening torque: N⋅m (kgf-m, ft-lb)

- T1: 3.9 (0.4, 2.9)
- T2: 10 (1.02, 7.4)
- T3: 15 (1.5, 10.8)
- T4: 17 (1.7, 12.5)
- T5: 20 (2.0, 14.8)
- T6: 24 (2.4, 17.4)
- T7: 25 (2.5, 18.1)
- T8: 27 (2.75, 19.9)
- T9: 29 (3.0, 21.4)
- T10: 37 (3.8, 27.3)
- T11: 60 (6.1, 44.1)
- T12: 85 (8.7, 62.7)
- T13: 90 (9.1, 65.8)

3. OIL PUMP



- Oil pump (1)
- (2) Pulley
- Bracket (3)
- (4) Belt tension nut

Tightening torque: N·m (kgf-m, ft-lb)

T1: 8 (0.8, 5.8)

T2: 15.7 (1.6, 11.6)

T3: 22 (2.2, 15.9)

T4: 25 (2.5, 18.1)

T5: 37.3 (3.8, 27.5)

C: CAUTION

- Wear work clothing, including a cap, protective goggles and protective shoes during operation.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Be careful not to burn yourself, because each part on the vehicle is hot after running.
- Use SUBARU genuine power steering fluid, grease etc. or the equivalent. Do not mix fluid, grease etc. with that of another grade or from other manufacturers.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- Before securing a part on a vise, place cushioning material such as wooden blocks, aluminum plate or cloth between the part and the vise.

1. SPECIAL TOOL

D: PREPARATION TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	925711000	PRESSURE GAUGE	Used for measuring oil pump pressure.
ST-925711000	02620000	STAND	a Hood when increasing above staviation of good
	926200000	SIAND	 Used when inspecting characteristic of gear-box assembly and disassembling it. Used with BOSS D (34199AG000).
ST-926200000			
	34099AC010	ADAPTER HOSE A	Used with PRESSURE GAUGE (925711000).
ST34099AC010			
	34099AC020	ADAPTER HOSE B	Used with PRESSURE GAUGE (925711000).
ST34099AC020			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	926230000	SPANNER	For the lock nut when adjusting backlash of gear-
			box.
ST-926230000			
	34099PA100	SPANNER	Used when measuring the rotating resistance of
			gearbox assembly.
ST34099PA100			
	926420000	PLUG	When fluid leaks from pinion side of gearbox assembly, remove pipe B from valve housing,
			attach this tool and check fluid leaking points.
07.000.400000			
ST-926420000	000050000	CLUDE	Lips of face in ordalling a halder and a section in the section.
	926250000	GUIDE	Used for installing holder assembly into rack housing.
ST-926250000			
31-320230000			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	34099FA060	PUNCH HOLDER	Used for caulking.
ST34099FA060			
	927490000	INSTALLER A, B, C	Used for installing oil seal to rack assembly.
ST-927490000			
	34099FA030	INSTALLER &	Used for removing and installing rack oil seal
		REMOVER	(outer & inner).
ST34099FA030			
	34199AG000	BOSS D	Used for inspecting characteristic of gearbox
			assembly and disassembling it. • Used with STAND (926200000).
<u> </u>			
ST34199AG000			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	34199AG030	GUIDE	Used for installing seal ring of rack.
ST34199AG030			
	34199AG070	FORMER	Used for forming seal ring of pinion.
ST34199AG070			
	34199AG020	GUIDE	Used for installing seal ring of pinion.
ST34199AG020			
3134139AGU2U	34199AG050	GUIDE G (24)	Used for forming seal ring of rack.
	3.1337,4333		Used with FORMER PISTON (34199AG080).
ST34199AG050			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	34199AE050	OIL SEAL REMOVER	Used for removing oil seal.
		NEWOVEN	
ST34199AE050			
	34199AG090	INSTALLER & REMOVER	Used for installing oil seal of valve housing.Used with SEAL INSTALLER (34099FA130).
		TILMOVEIT	Used for installing ball bearing of valve hous-
			ing. • Used for removing oil seal and ball bearing
			from valve housing.
ST34199AG090			
	34199AG080	FORMER PISTON	Used for forming seal of rack.Used with GUIDE G (24) (34199AG050).
ST34199AG080			
5134139AG080	34199AG010	INSTALLER	Used for press-fitting oil seal of gearbox cylinder.
	0+100A0010	INOTALLIT	Osed for press many on sear or gearbox cylinder.
ST34199AG010			