1. General Description

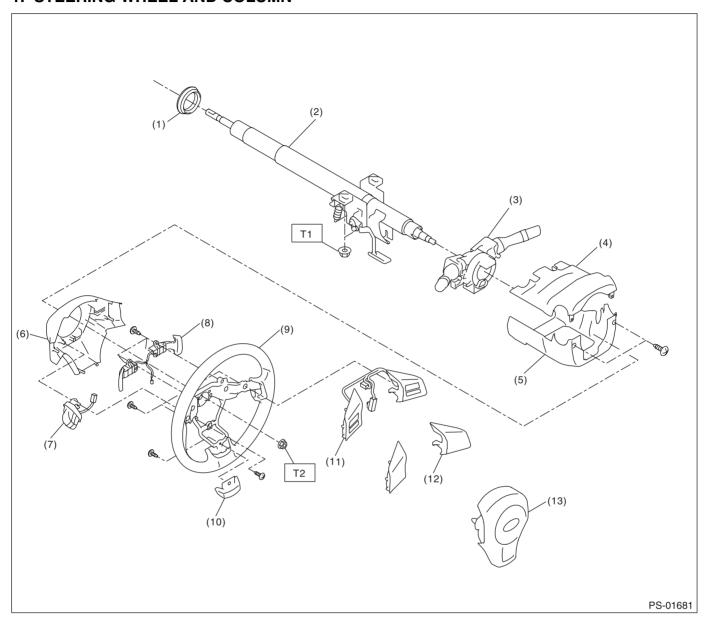
A: SPECIFICATION

				XV model		
Model			Except for XV model	Gasoline engine model	HEV model	
	Minimum turning radius m (ft)		5.3 (17.39)			
Whole system	Steering angle	Inner wheel	38.3°±1.5°	38.2°±1.5°		
		Outer wheel	33.7°±1.5°	33.6°±1.5°		
	Steering wheel diameter mm (in)		375 (14.76)			
	Lock-to-lock revolution nu	ımber	2.9	2.8		
Gearbox	Туре		Rack & pinion type			
	Backlash		0 (automatic adjusting)			
Motor (Temperature 20°C (68°F))	Rated voltage V		12			
	Rated torque	N⋅m (kgf-m, ft-lb)	4.5 (0.46, 3.31)			
	Rated revolution speed	revolution speed rpm		1,140		
	Rated current	А	85			
	Rated output	W	561			

				XV model		
Model				Except for XV model	Gasoline engine model	HEV model
Steering wheel	Free play		mm (in)	17 (0.67) or less		
Steering shaft	Clearance between the steering wheel and column cover		mm (in)	4 — 6 (0.16 — 0.24)		
Steering gearbox (Power steer- ing system)	Sliding resistance		N (kgf, lbf)	320 (33, 72) or less Difference between right and left sliding resistance: 20% or less	303 (31, 6 Difference between resistance:	right and left sliding
	Rack shaft play in the radial direction	Right-turn steering	mm (in)	Horizontal play: 0.6 (0.024) or less Vertical play: 0.4 (0.016) or less		
		Left-turn steering	mm (in)	0.4 (0.016) or less		
	Input shaft play	In radial direction	mm (in)	0.18 (0.0071) or less		
		In axial direction	mm (in)	0.27 (0.0106) or less		
	Rotational resistance		N (kgf, lbf)	Maximum allowable value: 18.3 (1.9, 4.1) or less Difference between right and left sliding resistance: 20% or less	Maximum allowabi 4.0) o Difference between resistance:	r less right and left sliding
Steering wheel effort			N (kgf, lbf)	29.4 (3.0, 6.6) or less		_
(Power steer- ing system)	At standstill with engine stalled on paved road		N (kgf, lbf)	294.2 (30, 66.2) or less		

B: COMPONENT

1. STEERING WHEEL AND COLUMN



- (1) Bushing
- (2) Column ASSY steering
- (3) Switch ASSY combination
- (4) Cover ASSY column UPR
- (5) Cover ASSY column LWR
- (6) Cover steering wheel LWR
- (7) MID switch
- (8) Paddle shift
- (9) Steering wheel
- (10) Cover spoke
- (11) Satellite switch
- (12) Cover switch

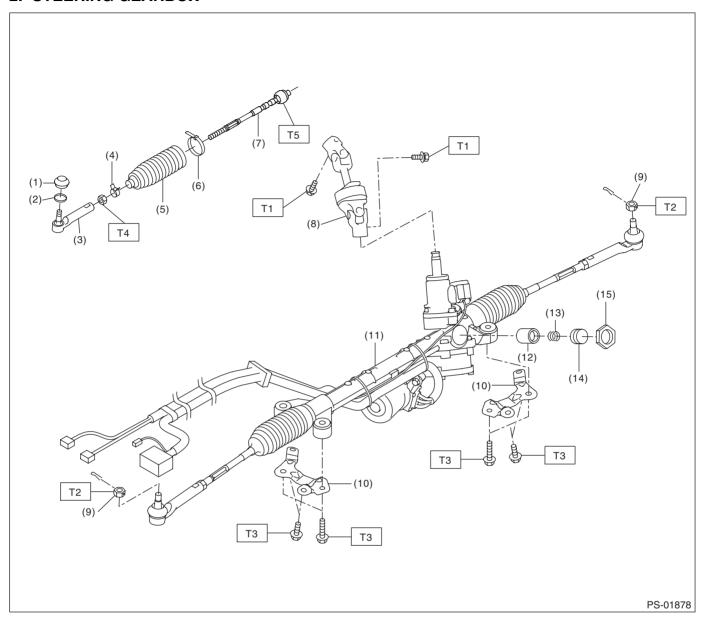
(13) Airbag module

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 20 (2.04, 14.8)

T2: 39 (3.98, 28.8)

2. STEERING GEARBOX



- Dust seal (1)
- Clip boot tie-rod end B (2)
- (3) Tie-rod end
- Clip boot tie-rod end A (4)
- Boot steering gearbox (5)
- Band boot (6)
- Tie-rod (7)
- Universal joint ASSY steering (8)

- Castle nut (9)
- Stiffener (10)
- (11) Steering gearbox ASSY
- Pad pressure (12)
- Spring gearbox (13)
- Adjusting screw (14)
- Lock nut (15)

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 24 (2.45, 17.7)

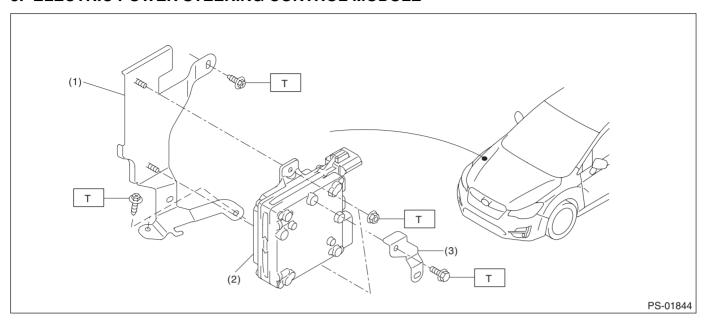
T2: 27 (2.75, 19.9)

T3: 60 (6.12, 44.3)

T4: 85 (8.67, 62.7)

T5: 90 (9.18, 66.4)

3. ELECTRIC POWER STEERING CONTROL MODULE



- (1) Bracket control module
- (2) Power steering control module
- (3) Harness bracket

Tightening torque: N·m (kgf-m, ft-lb)
T: 7.5 (0.76, 5.5)

C: CAUTION

- Wear appropriate work clothing, including a helmet, protective goggles and protective shoes when performing any work.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Vehicle components are extremely hot after driving. Be wary of receiving burns from heated parts.
- Use grease and oil of Subaru genuine or the equivalent products. Do not mix them of different grades or 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.

D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	34099PA100	SPANNER	Used when measuring the rotating resistance of gearbox assembly.
ST34099PA100			

2. GENERAL TOOL

TOOL NAME	REMARKS
Steering wheel puller	Used for removing the steering wheel.