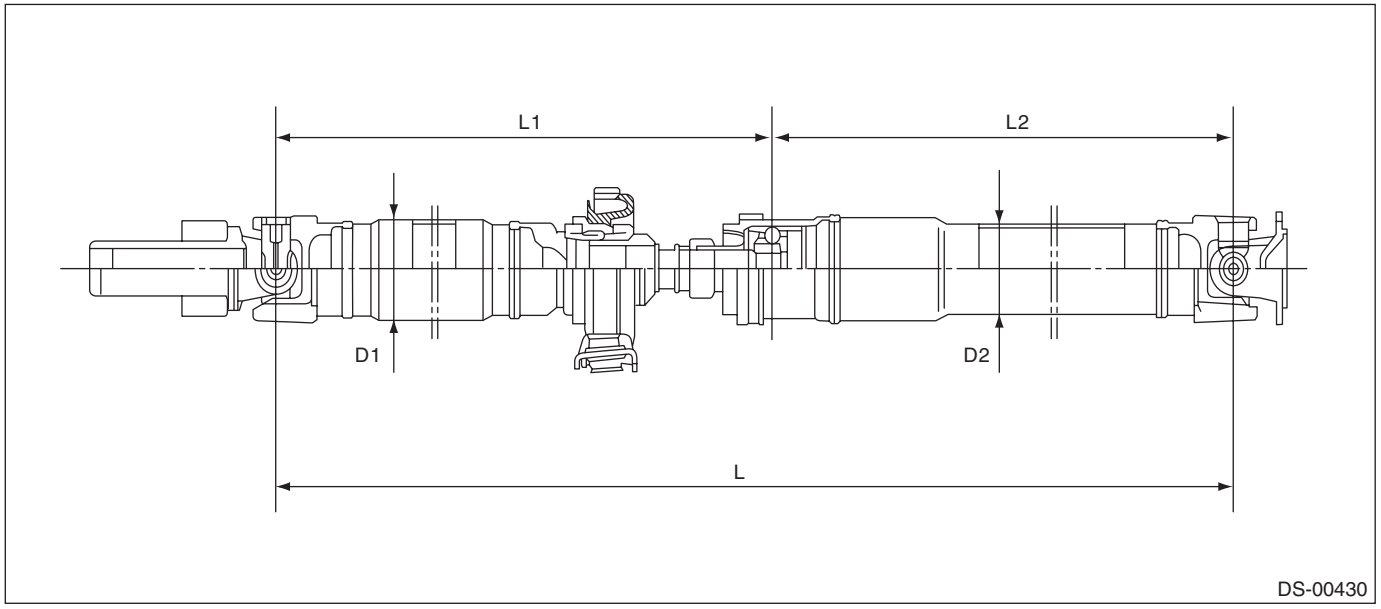
1. General Description

A: SPECIFICATION

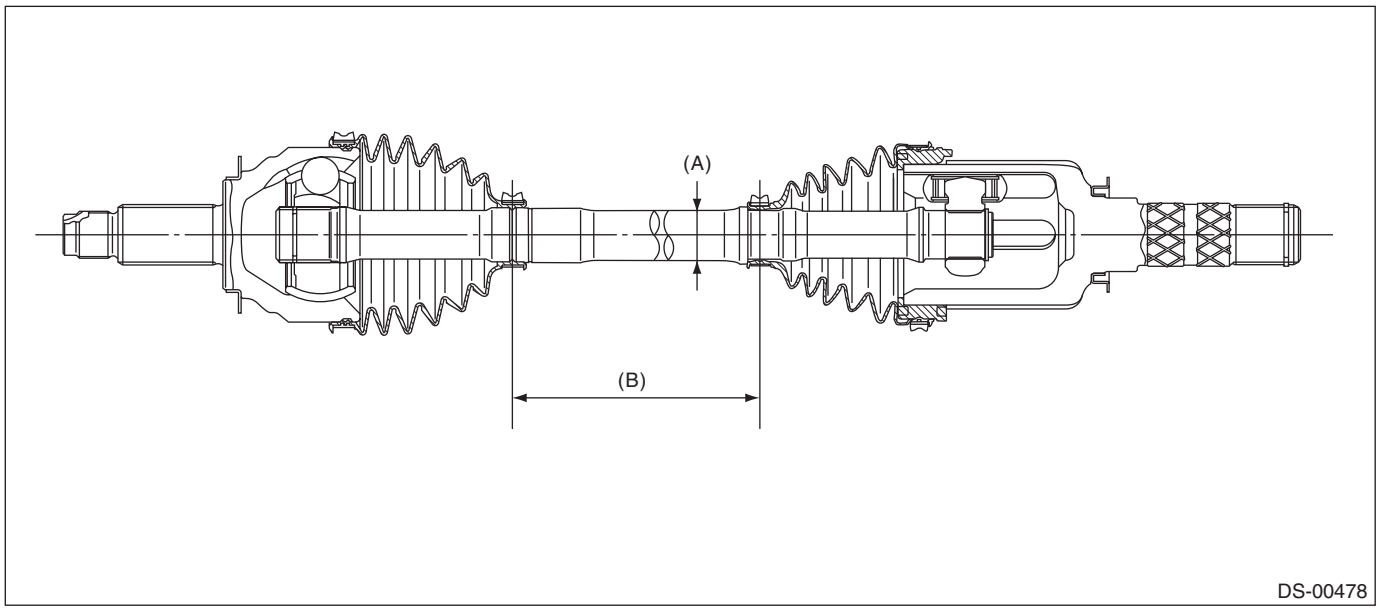
1. PROPELLER SHAFT

Car line		Except for XV model	XV model	
			Gasoline engine model	HEV model
Propeller shaft type		EDJ		
Front propeller shaft joint-to-joint length: L_1	CVT	675.5 mm (26.59 in)		562 mm (22.13 in)
	MT	735.5 mm (28.96 in)		-
Rear propeller shaft joint-to-joint length: L_2		723 mm (28.46 in)		
Outer diameter of tube:	D_1	63.5 mm (2.50 in)		
	D_2	65.0 mm (2.56 in)	57.5 mm (2.26 in)	



2. FRONT AXLE SHAFT ASSEMBLY

Model	Axle shaft type	Axle diameter ϕ mm (in)	Axle length mm (in)
Except for XV model	AC + AAR	22 (0.87)	347.5 (13.68)
XV model	EBJ + PTJ	22 (0.87)	356.4 (14.03)



(A) Axle diameter (B) Axle length

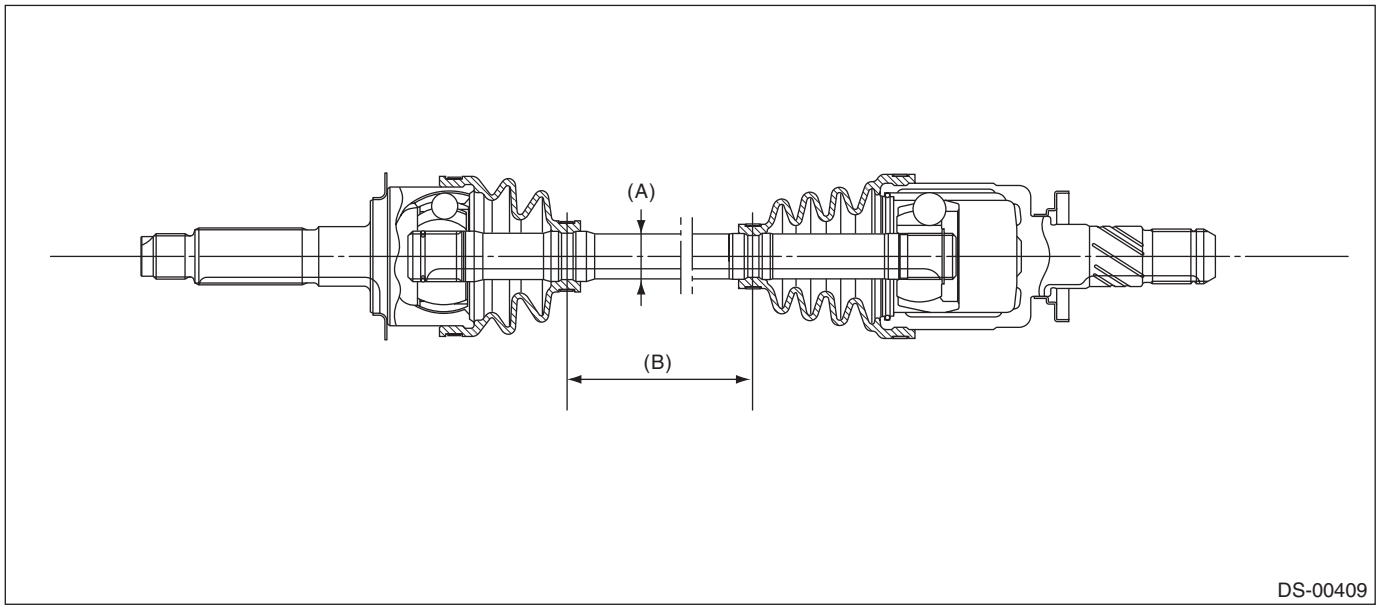
3. REAR AXLE SHAFT ASSEMBLY

- Except for XV model

T/M type	Axle shaft type	Axle diameter ϕ mm (in)	Axle length mm (in)
CVT	BJ + DOJ	22 (0.87)	357.45 (14.07)
MT	EBJ + DOJ	22 (0.87)	372.5 (14.67)

- XV model

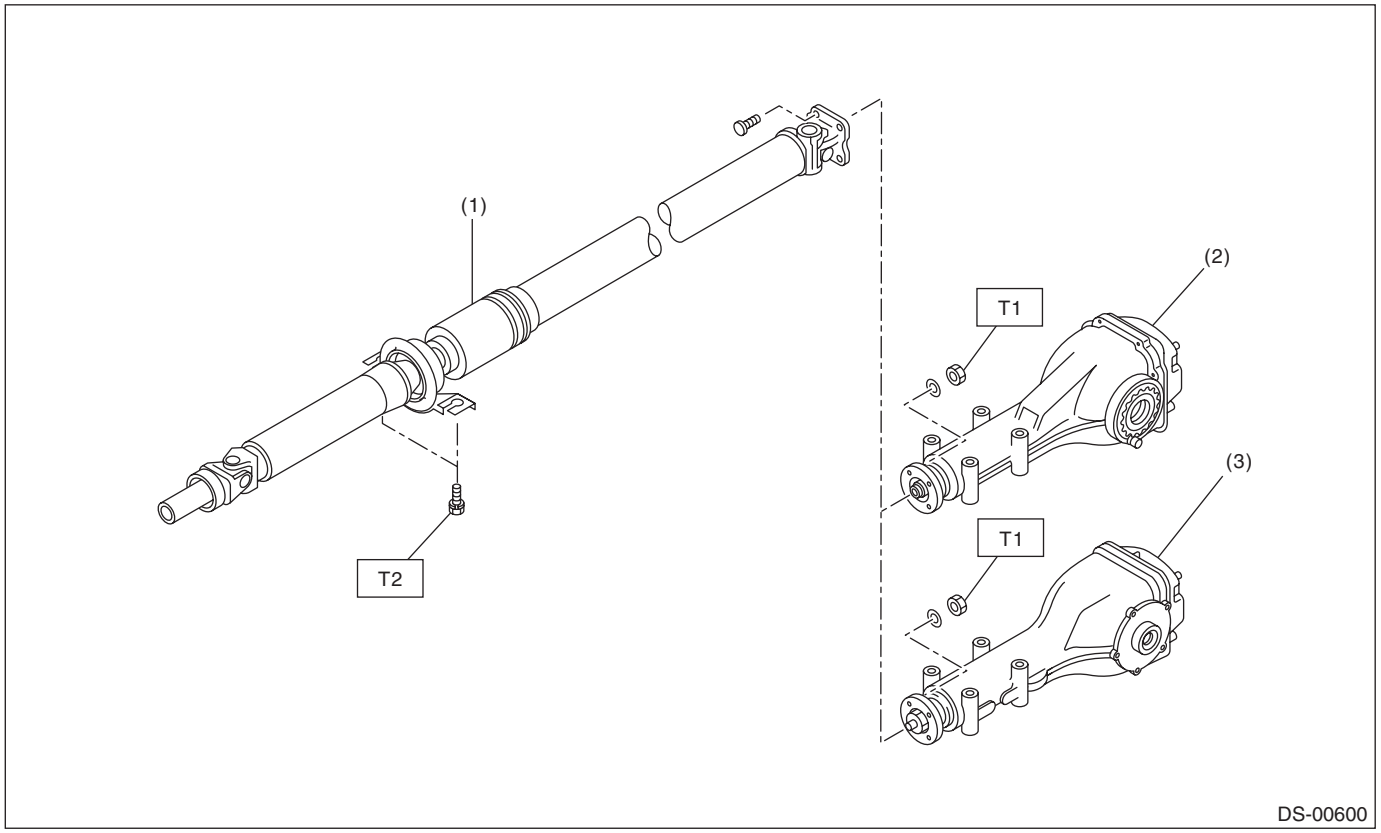
T/M type	Axle shaft type	Axle diameter ϕ mm (in)	Axle length mm (in)
CVT	BJ + DOJ	22 (0.87)	394.2 (15.52)
MT	EBJ + DOJ	22 (0.87)	388.5 (15.30)



(A) Axle diameter (B) Axle length

B: COMPONENT

1. PROPELLER SHAFT

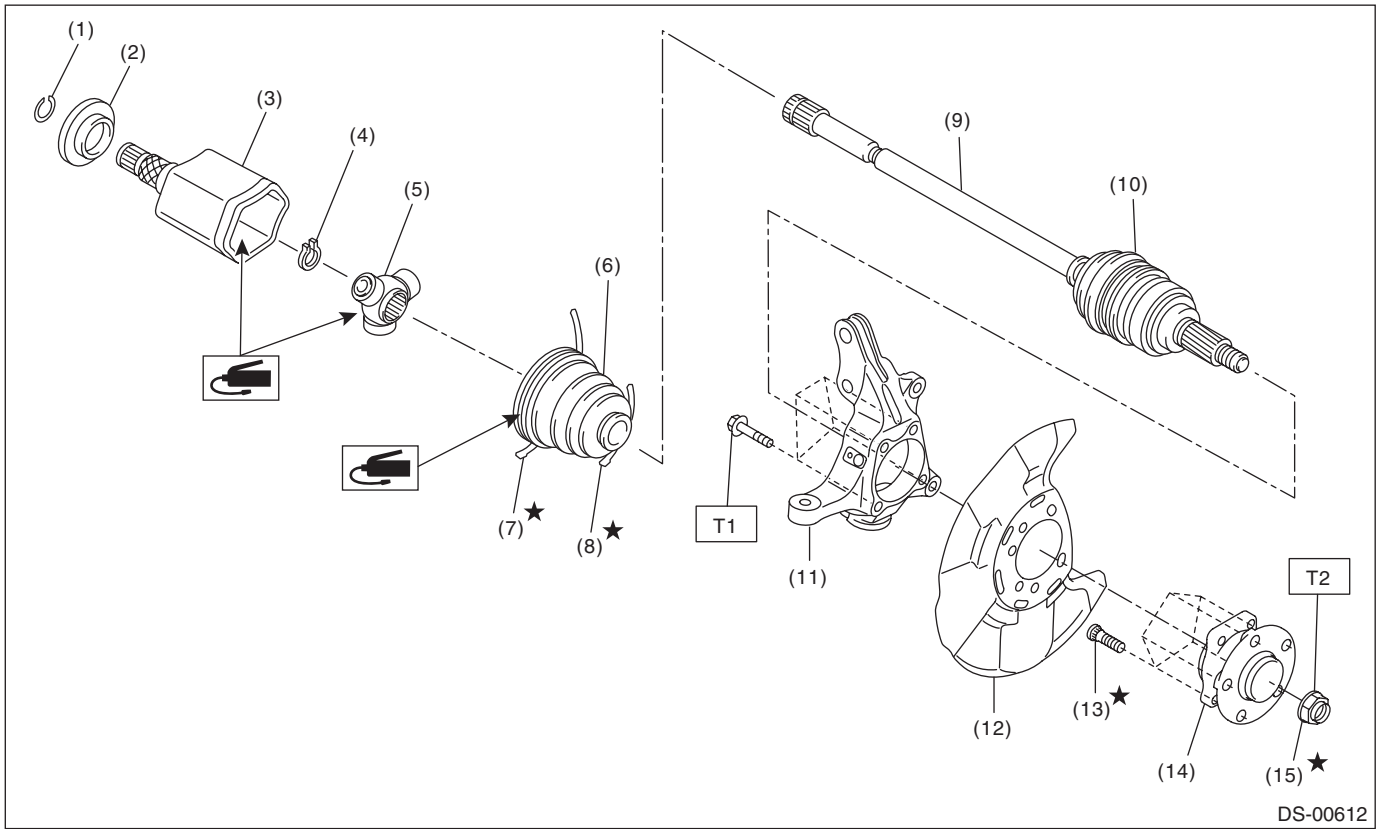


(1) Propeller shaft
(2) Rear differential (VA1-type)
(3) Rear differential (T-type)

Tightening torque: N·m (kgf-m, ft-lb)
T1: 31 (3.16, 22.9)
T2: 52 (5.30, 38.4)

2. FRONT AXLE

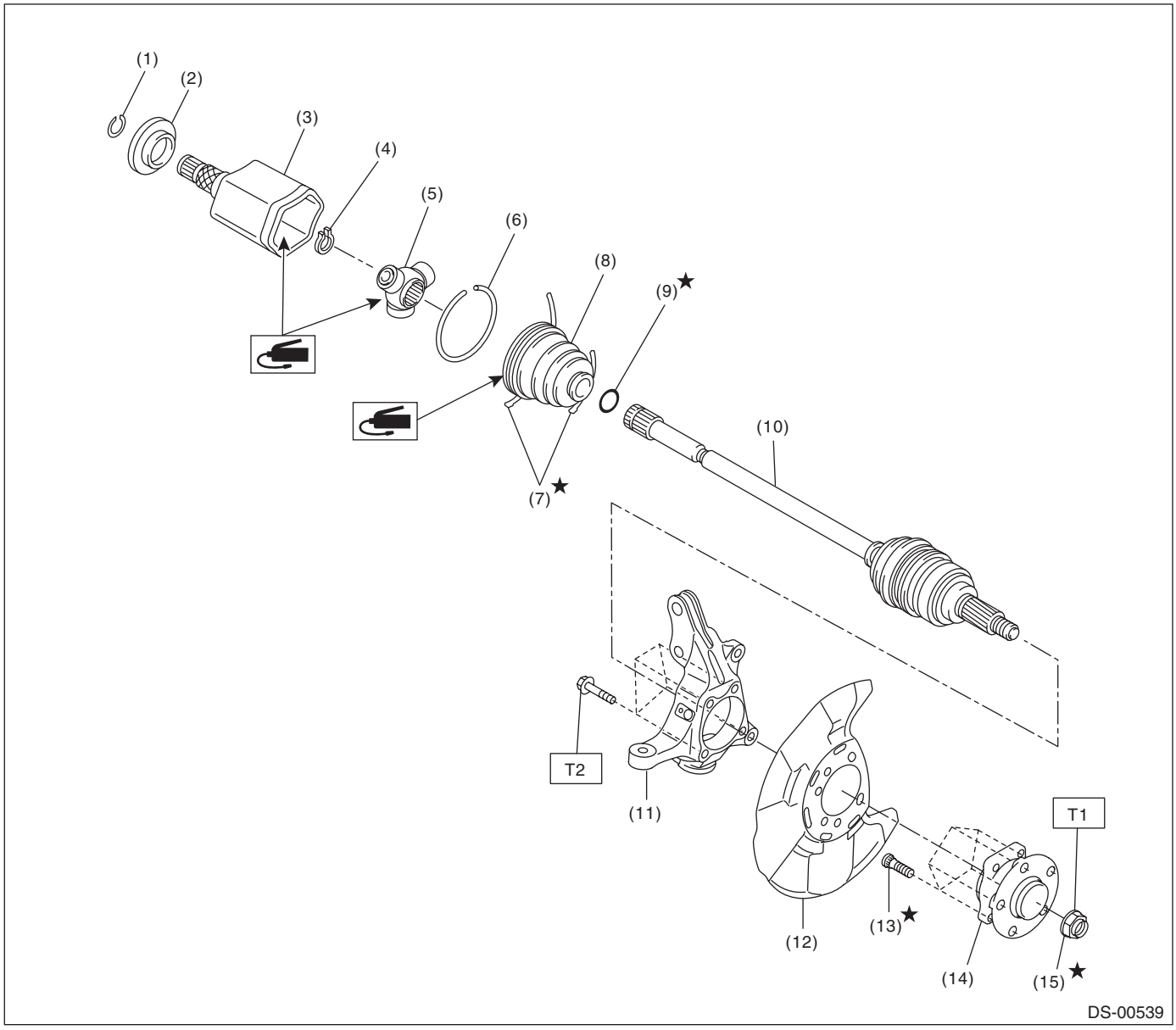
- AC + AAR type



(1) Circlip
(2) Baffle plate
(3) Outer race (AAR)
(4) Snap ring
(5) Trunnion
(6) Boot (AAR)
(7) Band - drive shaft A
(8) Band - drive shaft D
(9) Axle shaft ASSY
(10) Boot (AC)
(11) Housing ASSY - front axle
(12) Back plate - front brake
(13) Bolt - hub
(14) Hub unit COMPL - front axle
(15) Nut - axle

Tightening torque: N·m (kgf-m, ft-lb)
T1: 65 (6.63, 47.9)
T2: 220 (22.43, 162.3)

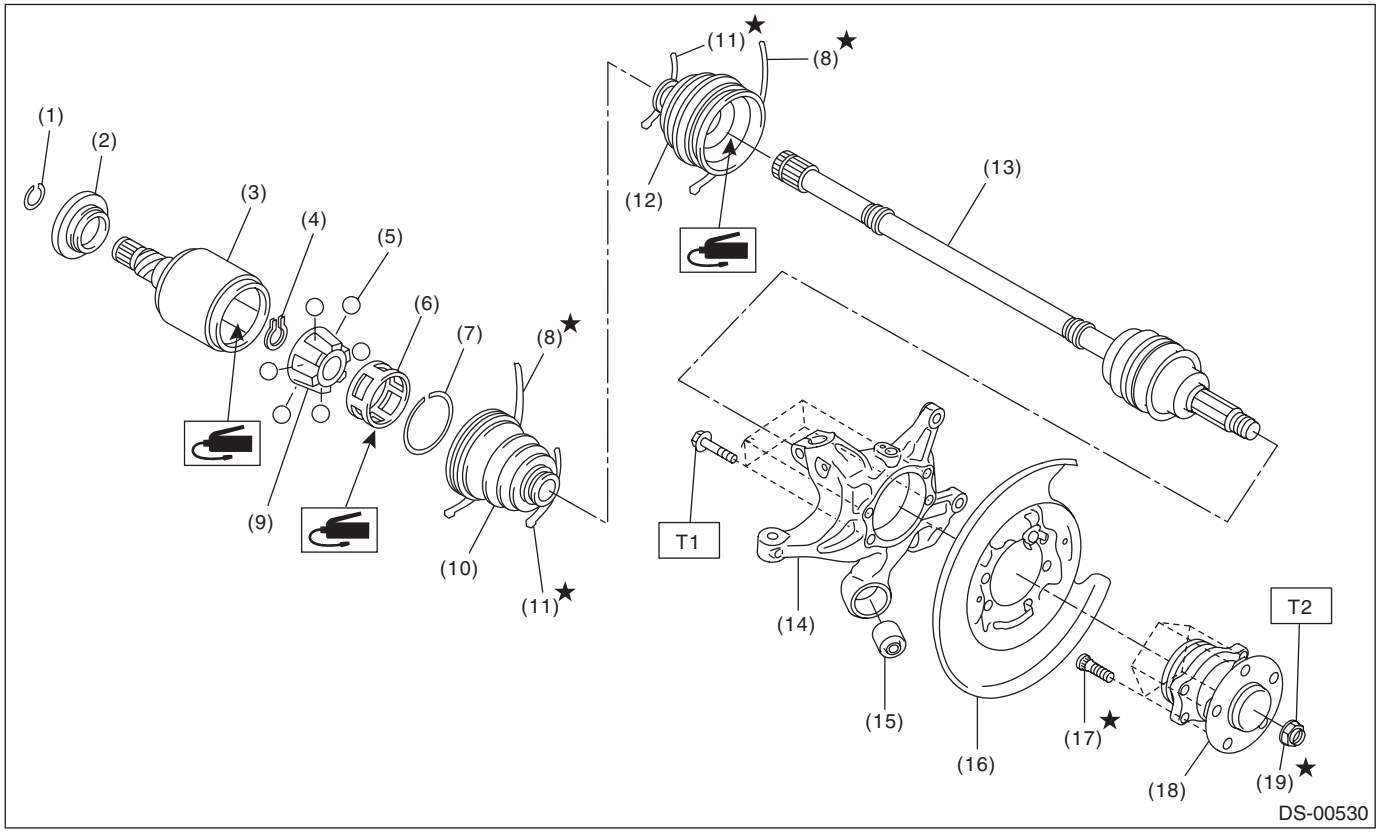
- EBJ + PTJ type



(1) Circlip
(2) Baffle plate
(3) Outer race (PTJ)
(4) Snap ring
(5) Trunnion
(6) Snap ring
(7) Boot band
(8) Boot (PTJ)
(9) O-ring
(10) EBJ shaft ASSY
(11) Housing ASSY - front axle
(12) Back plate - front brake
(13) Bolt - hub
(14) Hub unit COMPL - front axle
(15) Nut - axle

Tightening torque: N·m (kgf-m, ft-lb)
T1: 220 (22.43, 162.3)
T2: 65 (6.63, 47.9)

3. REAR AXLE



(1) Circlip A
(2) Baffle plate
(3) Outer race (DOJ)
(4) Snap ring
(5) Ball
(6) Cage
(7) Circlip B
(8) Band - drive shaft A
(9) Inner race
(10) Boot - drive shaft (DOJ)
(11) Band - drive shaft B
(12) Boot - drive shaft (BJ)
Boot - drive shaft (EBJ)
(13) Shaft ASSY (EBJ) (CVT model)
Shaft ASSY (EBJ) (MT model)
(14) Housing ASSY - rear axle
(15) Bushing - trailing link
(16) Back plate - rear brake
(17) Bolt - hub
(18) Hub unit COMPL - rear axle
(19) Nut - axle

Tightening torque: N·m (kgf-m, ft-lb)

T1: 65 (6.63, 47.9)
T2: 190 (19.37, 140.1)

C: CAUTION

• When performing any work, always wear work clothes, a work cap and protective shoes. Additionally, wear a helmet, protective goggles, etc. if necessary.
• Remove contamination including dirt and corrosion before removal, installation, disassembly or assembly.
• When performing a repair, identify the cause of trouble and avoid unnecessary removal, disassembly and replacement.
• Some vehicle components are extremely hot immediately after driving. Be wary of receiving burns from heated parts.
• Use SUBARU genuine grease, the recommended or equivalent. Do not mix grease etc. of different grades or manufacturers.
• Be sure to tighten fasteners including bolts and nuts to the specified torque.
• Always use the jack-up point when the shop jacks or rigid racks are used to support the vehicle.
• Apply grease onto sliding or revolving surfaces before installation.
• Be sure that the surface of brake disc, brake pad or brake shoe is free from grease or oil.
• Do not secure a part in a vise directly. Place cushioning materials such as wood blocks, aluminum plates, or waste cloth between the part and the vise.
• When the suspension-related components have been removed or replaced, perform “VDC sensor mid-point setting mode” of the VDC. <Ref. to VDC-26, VDC SENSOR MIDPOINT SETTING MODE (MODELS WITHOUT EyeSight), ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).> <Ref. to VDC-26, NEUTRAL OF STEERING ANGLE SENSOR & LATERAL G SENSOR 0 POINT SETTING (MODEL WITH EyeSight), ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).> <Ref. to VDC-27, LONGITUDINAL G SENSOR & LATERAL G SENSOR 0 POINT SETTING MODE (MODEL WITH EyeSight), ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

D: PREPARATION TOOL

1. SPECIAL TOOL

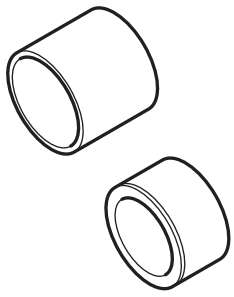
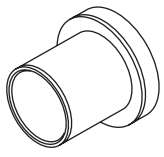
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST20099PA010	20099PA010	INSTALLER & REMOVER	• Used for replacing the bushing - trailing link of the housing assembly - rear axle. • Used together with BUSHING REMOVER (20099FG000).
 ST20099FG000	20099FG000	BUSHING REMOVER	• Used for replacing the bushing - trailing link of the housing assembly - rear axle. • Used together with base part of INSTALLER & REMOVER (20099PA010).

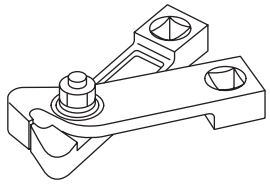
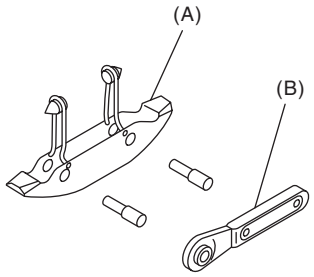
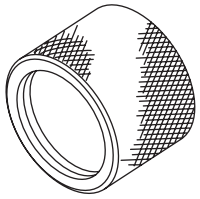
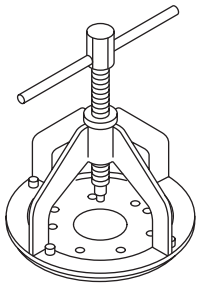
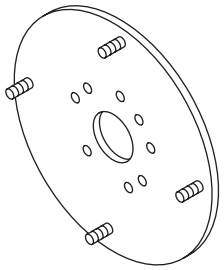
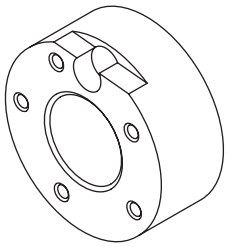
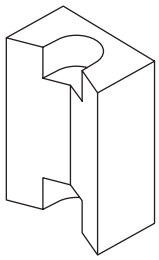
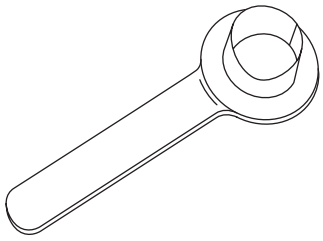
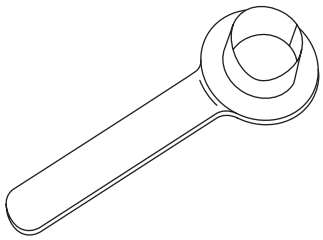
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST28099AC000	28099AC000	BOOT BAND PLIER	Used for tightening the band - boot. (for front axle shaft)
 ST-925091000	925091000	BAND TIGHTENING TOOL	Used for tightening the band - boot. (A) Jig for the band (B) Ratchet wrench
 ST18675AA000	18675AA000	DIFFERENTIAL SIDE OIL SEAL INSTALLER	Used for installing the differential side retainer oil seal.
 ST-926470000	926470000	AXLE SHAFT PULLER	• Used for removing the axle shaft. • Used together with AXLE SHAFT PULLER PLATE (28099PA110).
 ST28099PA110	28099PA110	AXLE SHAFT PULLER PLATE	Exchange with the plate of the AXLE SHAFT PULLER (926470000) to use.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-927080000	927080000	HUB STAND	Used for assembling the bolt - hub of the hub.
 ST28399AG000	28399AG000	HUB STAND	Used for extracting the bolt - hub.
 ST28399SA010	28399SA010	OIL SEAL PROTECTOR	• Used for installing the front axle shaft into the front differential. • For protecting the oil seal.
 ST28099PA090	28099PA090	OIL SEAL PROTECTOR	• Used for installing the rear axle shaft into the rear differential. • For protecting the oil seal.

2. GENERAL TOOL

TOOL NAME	REMARKS
Tie-rod ball joint puller	Used for disconnecting joints.
Dial gauge	Used for inspecting the propeller shaft run-out.
Extension cap	Used for preventing leakage of gear oil or CVTF.
Crowbar	Used for extracting the axle shaft.
Needle nose pliers	Used for tightening the band - boot of the rear axle shaft. • Snap-on 96BCP Or equivalent.