

# General Description

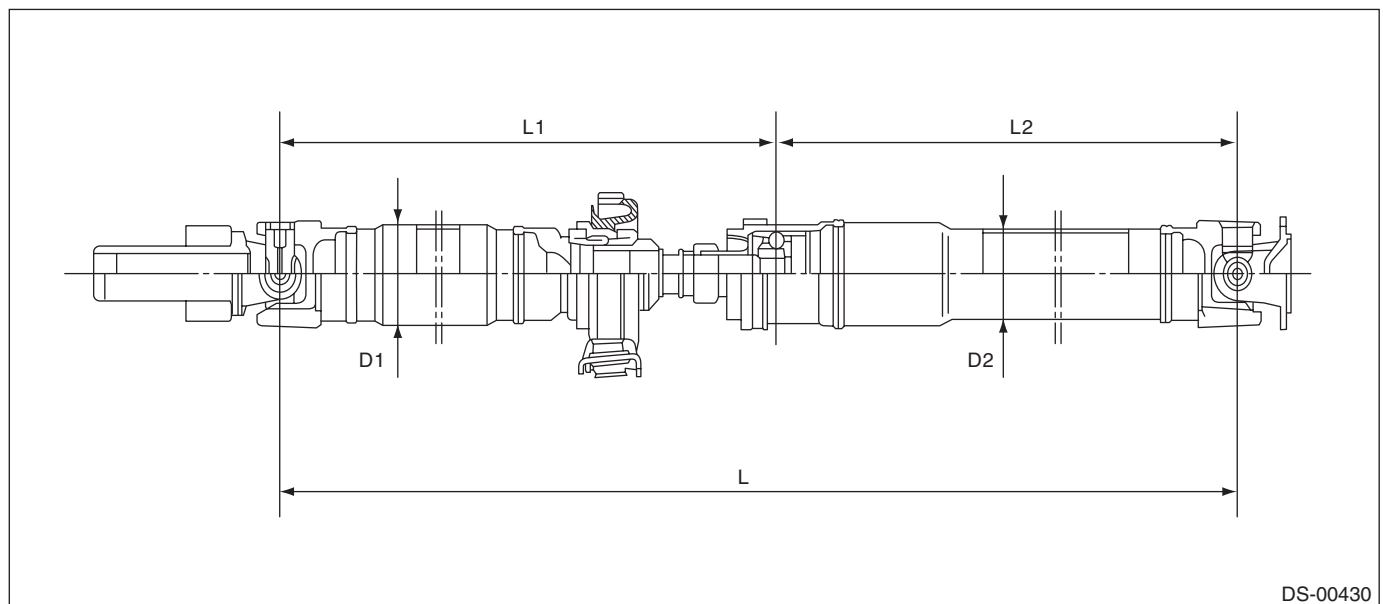
## DRIVE SHAFT SYSTEM

### 1. General Description

#### A: SPECIFICATION

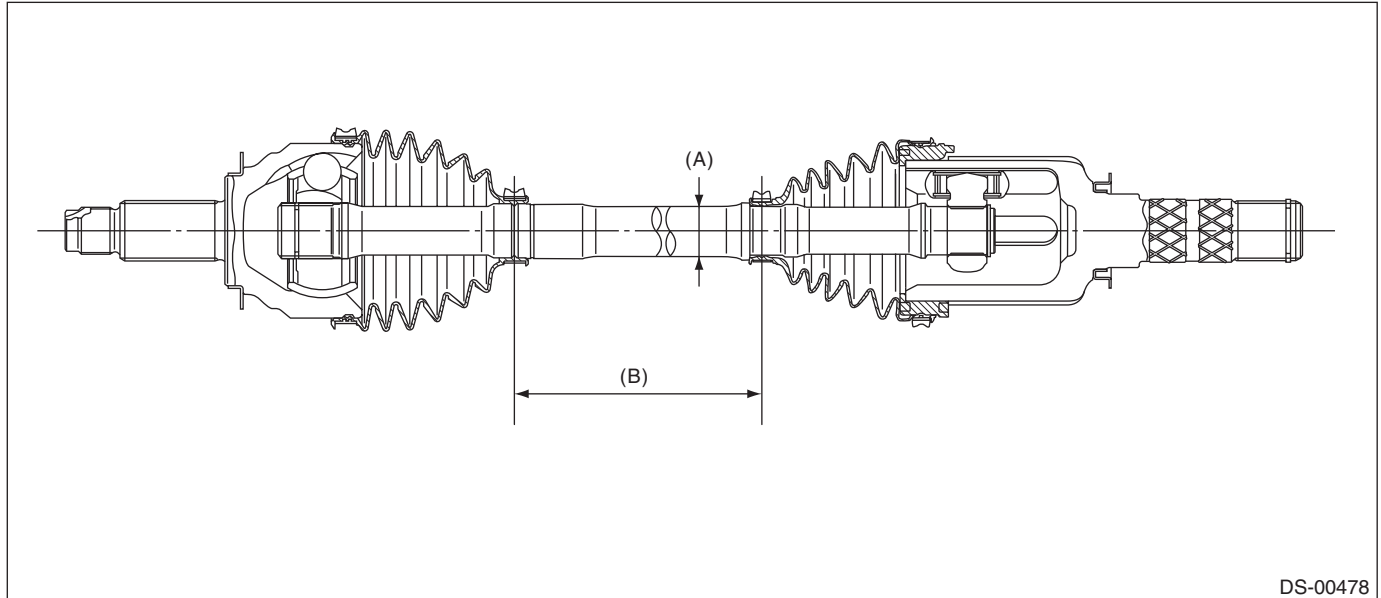
##### 1. PROPELLER SHAFT

Car line		All models
Propeller shaft type		EDJ
Front propeller shaft Joint-to-Joint length: $L_1$	CVT	675.5 mm (26.59 in)
	5MT	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)
	$D_2$	57.5 mm (2.26 in)



## 2. FRONT AXLE SHAFT ASSEMBLY

Model	Axle shaft type	Axle diameter $\phi$ mm (in)	Axle length mm (in)
Except for XV model	AC + AAR	22 (0.87)	351.5 (13.84)
XV model	EBJ + PTJ	22 (0.87)	361.4 (14.23)



DS-00478

(A) Axle diameter

(B) Axle length

# General Description

## DRIVE SHAFT SYSTEM

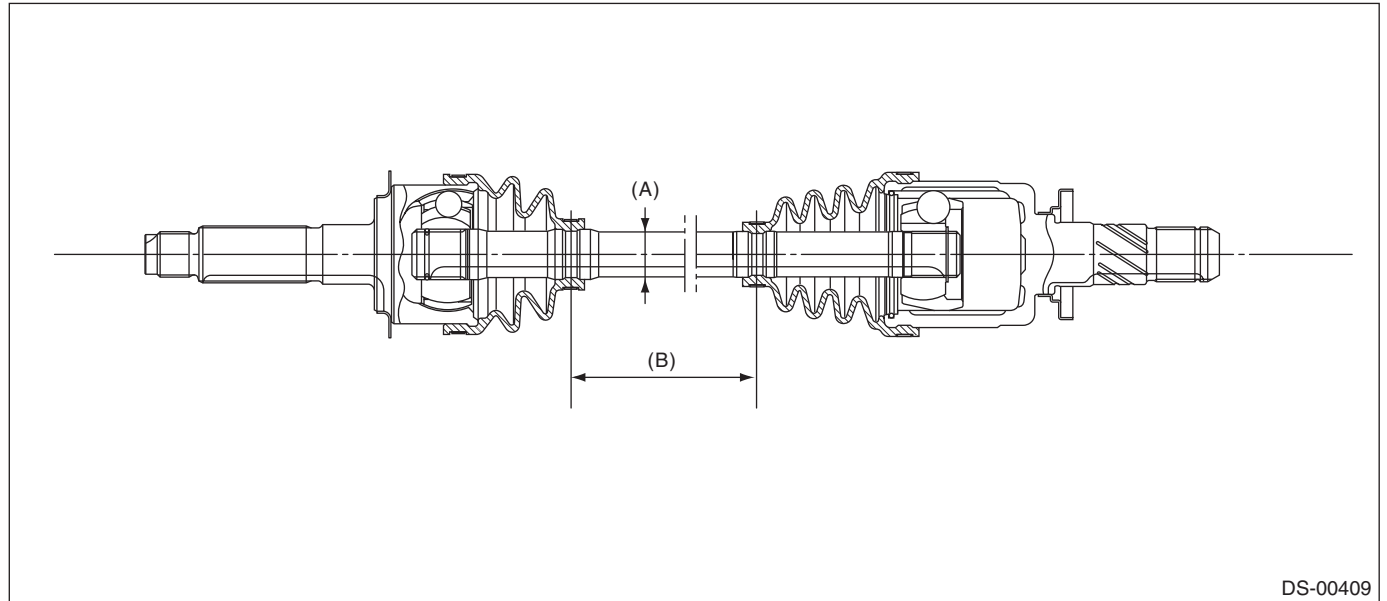
### 3. REAR AXLE SHAFT ASSEMBLY

- Except for XV model

T/M type	Axle shaft type	Axle diameter $\phi$ 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 $\phi$ mm (in)	Axle length mm (in)
CVT	BJ + DOJ	22 (0.87)	388.6 (15.30)
MT	EBJ + DOJ	22 (0.87)	388.5 (15.30)

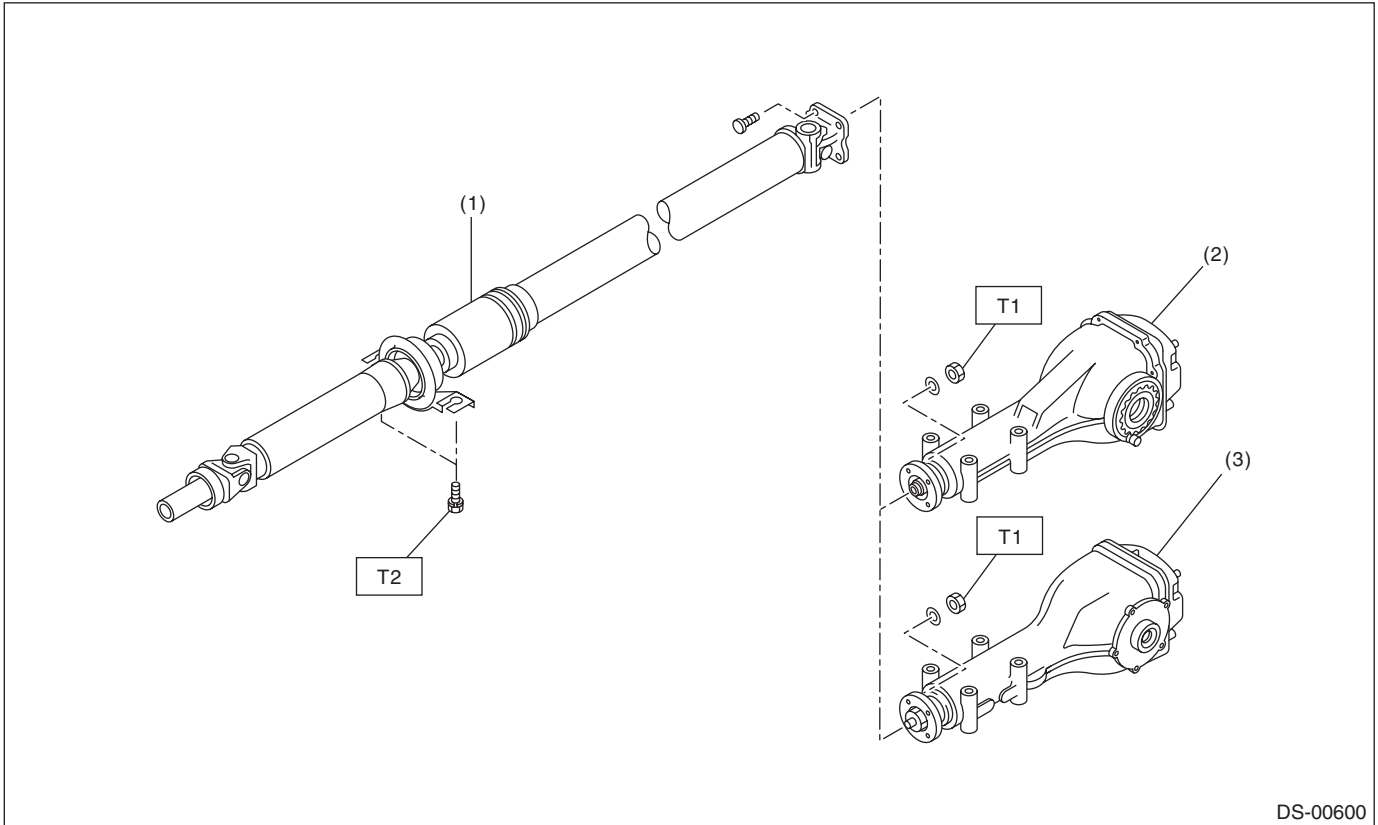


(A) Axle diameter

(B) Axle length

## B: COMPONENT

### 1. PROPELLER SHAFT



DS-00600

- (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)**

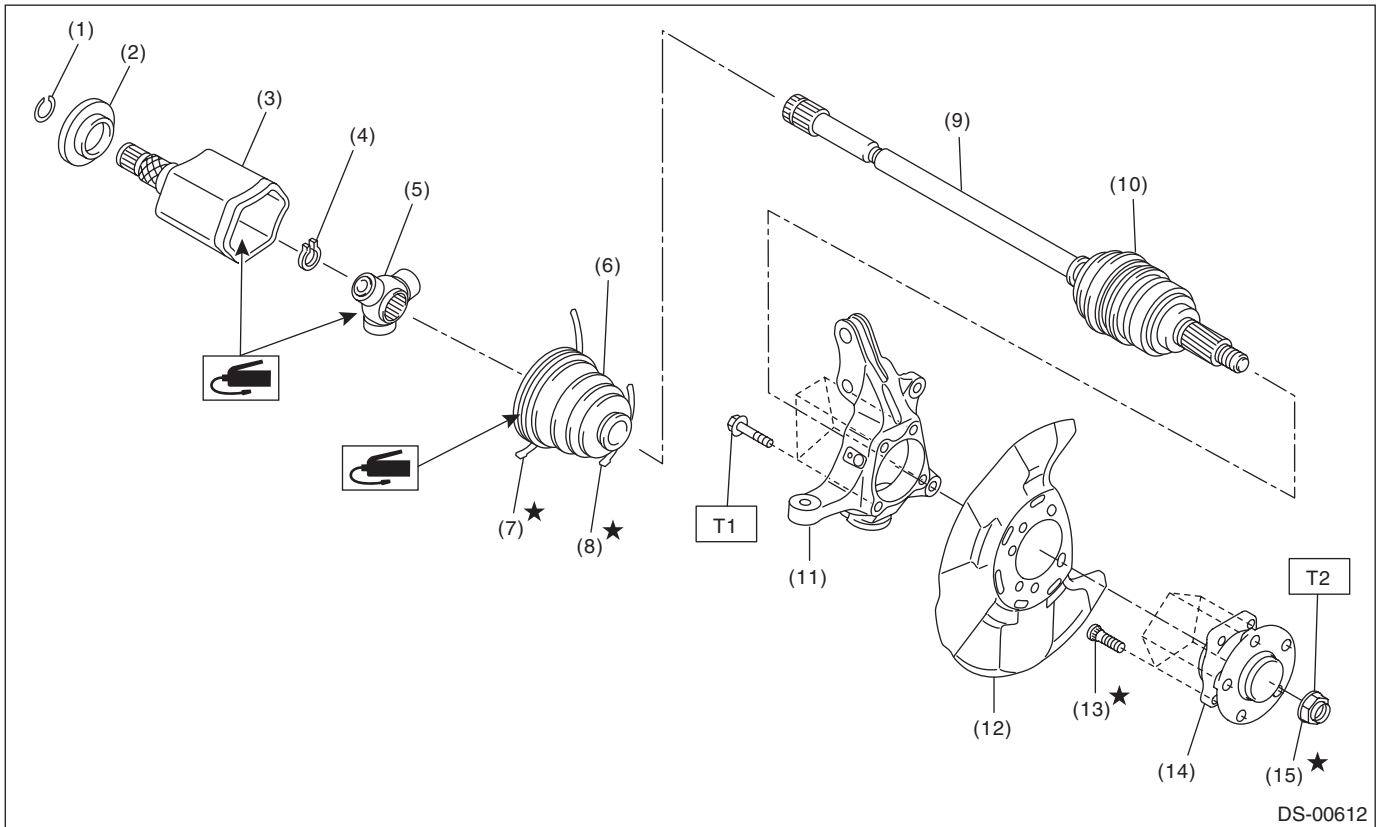
**T2: 52 (5.30, 38.4)**

# General Description

## DRIVE SHAFT SYSTEM

### 2. FRONT AXLE

- AC + AAR type



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

- (15) Nut - axle

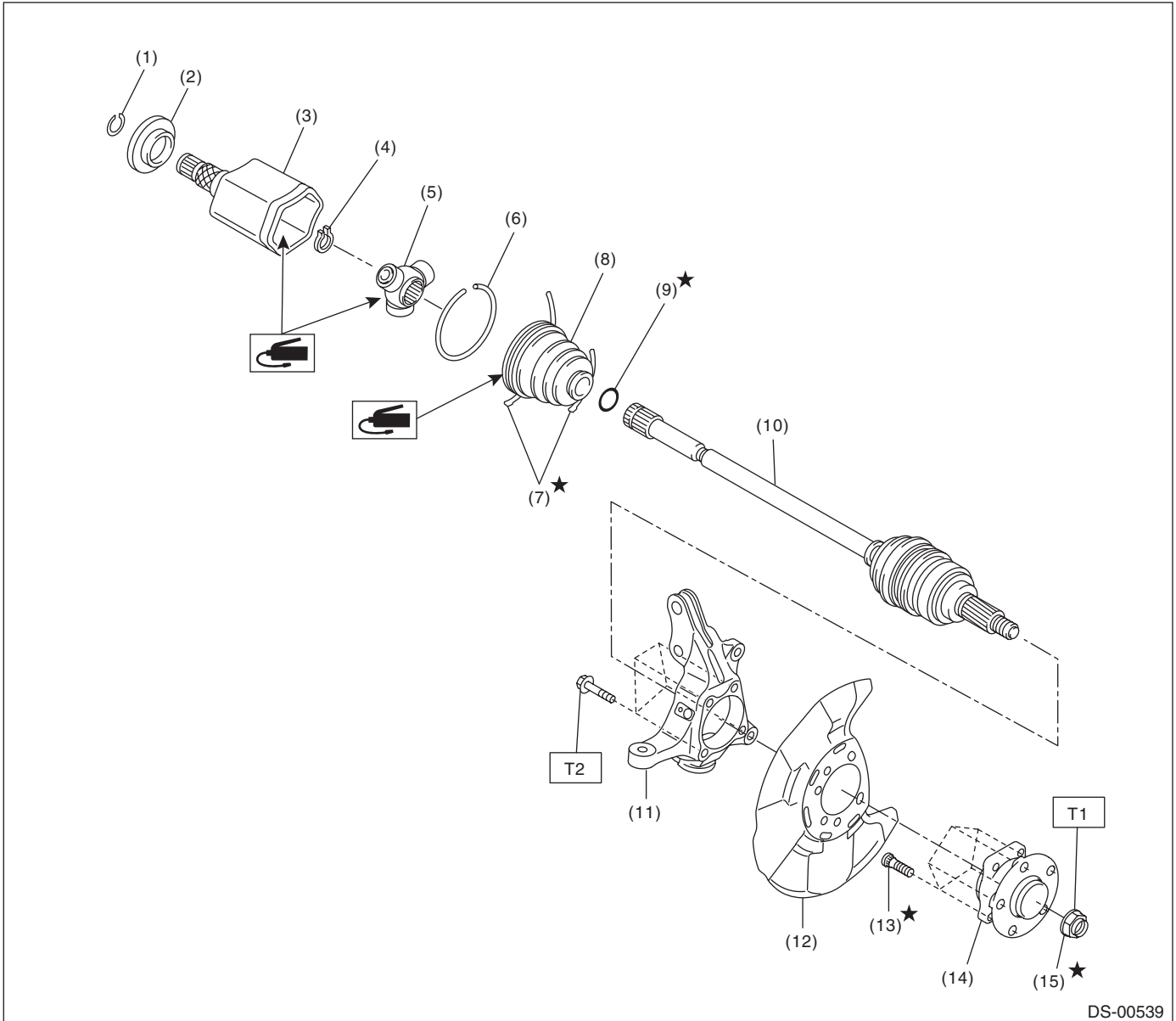
**Tightening torque: N·m (kgf·m, ft·lb)**

**T1: 65 (6.63, 47.9)**

**T2: 220 (22.43, 162.3)**

# General Description

• EBJ + PTJ type



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

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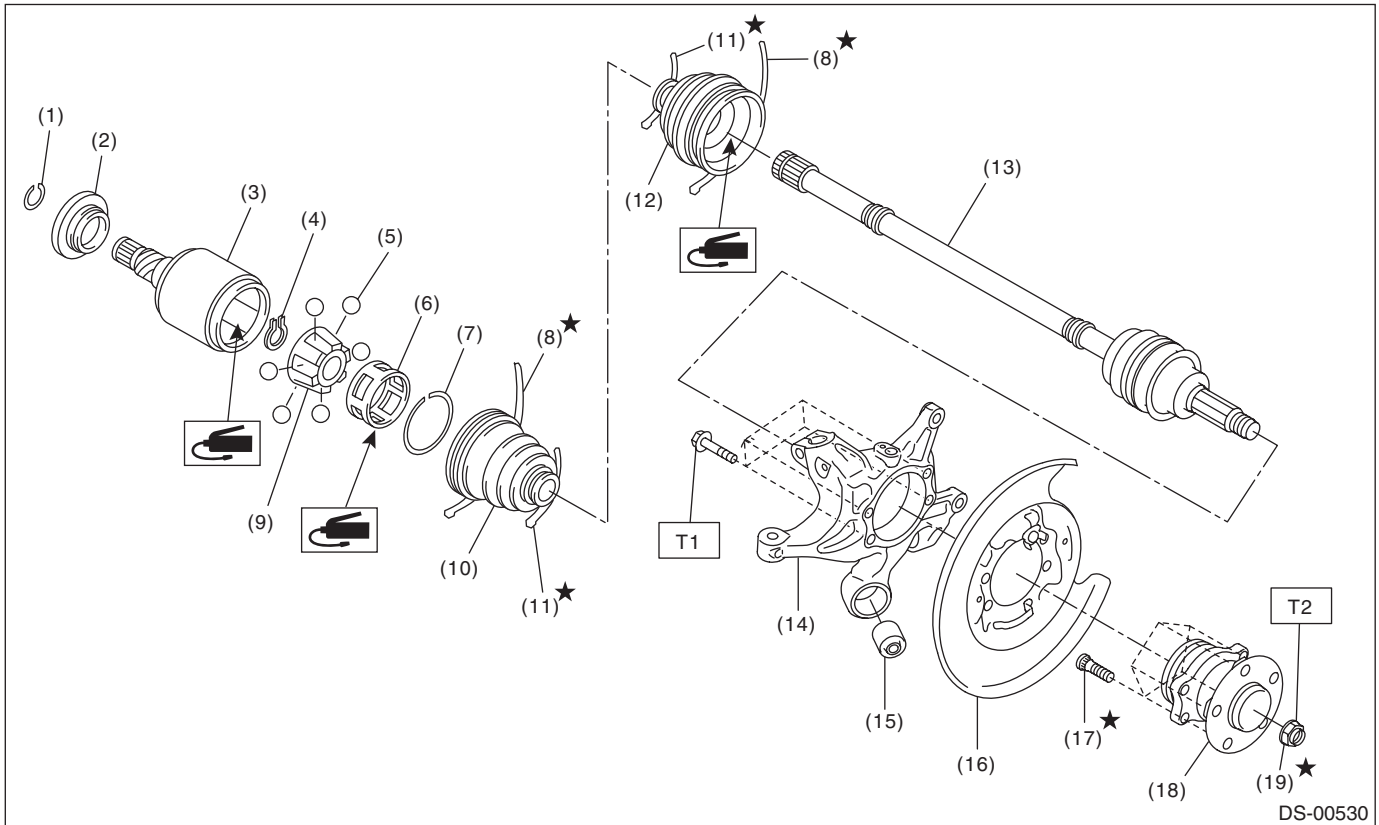
**Tightening torque: N·m (kgf·m, ft·lb)**  
**T1: 220 (22.43, 162.3)**  
**T2: 65 (6.63, 47.9)**

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# General Description

## DRIVE SHAFT SYSTEM

### 3. REAR AXLE



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

**Tightening torque: N·m (kgf·m, ft·lb)**

**T1: 65 (6.63, 47.9)**

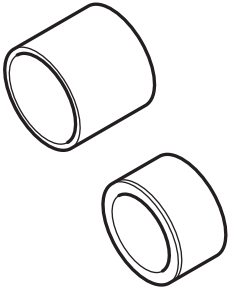
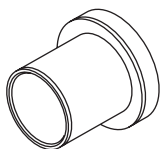
**T2: 190 (19.37, 140.1)**

## C: CAUTION

- Wear appropriate work clothing, including a helmet, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- 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 SUBARU genuine grease etc. 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.
- Place shop jacks or rigid racks at the specified points.
- Apply grease onto sliding or revolving surfaces before installation.
- Before installing snap rings, apply sufficient amount of grease to avoid damage and deformation.
- Before securing a part on a vise, 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 and installed, be sure to adjust the steering sensor. <Ref. to VDC-19, VDC SENSOR MIDPOINT SETTING MODE, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

## D: PREPARATION TOOL

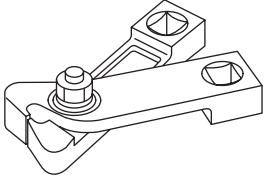
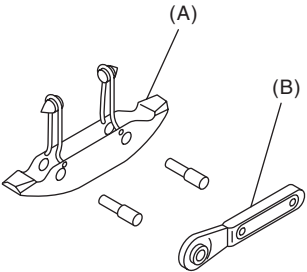
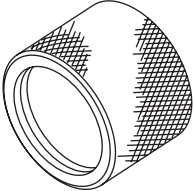
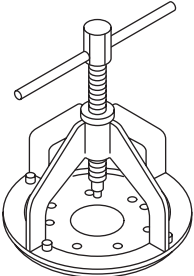
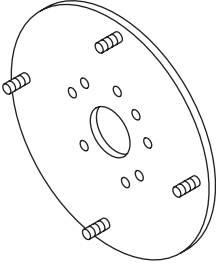
### 1. SPECIAL TOOL

ILLUSTRATION	Part No.	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST20099PA010</p>	20099PA010	INSTALLER & REMOVER	<ul style="list-style-type: none"> <li>• Used for replacing the bushing - trailing link of the housing assembly - rear axle.</li> <li>• Used together with BUSHING REMOVER (20099FG000).</li> </ul>
 <p style="text-align: center;">ST20099FG000</p>	20099FG000	BUSHING REMOVER	<ul style="list-style-type: none"> <li>• Used for replacing the bushing - trailing link of the housing assembly - rear axle.</li> <li>• Used together with base part of INSTALLER &amp; REMOVER (20099PA010).</li> </ul>



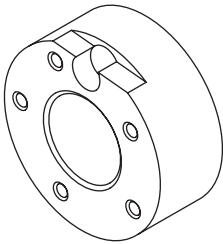
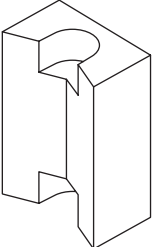
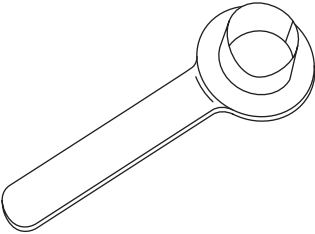
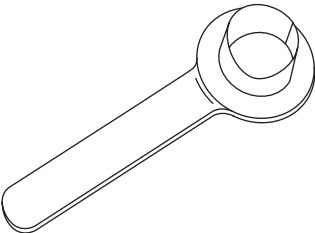
# General Description

## DRIVE SHAFT SYSTEM

ILLUSTRATION	Part No.	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST28099AC000</p>	28099AC000	BOOT BAND PLIER	Used for tightening the band - boot. (for front axle shaft)
 <p style="text-align: center;">ST-925091000</p>	925091000	BAND TIGHTENING TOOL	Used for tightening the band - boot. (A) Jig for the band (B) Ratchet wrench
 <p style="text-align: center;">ST18675AA000</p>	18675AA000	DIFFERENTIAL SIDE OIL SEAL INSTALLER	Used for installing the differential side retainer oil seal.
 <p style="text-align: center;">ST-926470000</p>	926470000	AXLE SHAFT PULLER	<ul style="list-style-type: none"> <li>• Used for removing the axle shaft.</li> <li>• Used together with AXLE SHAFT PULLER PLATE (28099PA110).</li> </ul>
 <p style="text-align: center;">ST28099PA110</p>	28099PA110	AXLE SHAFT PULLER PLATE	Exchange with the plate of the AXLE SHAFT PULLER (926470000) to use.

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DRIVE SHAFT SYSTEM

ILLUSTRATION	Part No.	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-927080000</p>	927080000	HUB STAND	Used for assembling the bolt - hub of the hub.
 <p style="text-align: center;">ST28399AG000</p>	28399AG000	HUB STAND	Used for extracting the bolt - hub.
 <p style="text-align: center;">ST28399SA010</p>	28399SA010	OIL SEAL PROTECTOR	<ul style="list-style-type: none"> <li>• Used for installing the front axle shaft into the front differential.</li> <li>• For protecting the oil seal.</li> </ul>
 <p style="text-align: center;">ST28099PA090</p>	28099PA090	OIL SEAL PROTECTOR	<ul style="list-style-type: none"> <li>• Used for installing the rear axle shaft into the rear differential.</li> <li>• For protecting the oil seal.</li> </ul>

## 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 ATF.
Crowbar	Used for extracting the axle shaft.
Needle nose pliers	Used for tightening the band - boot of the rear axle shaft. <ul style="list-style-type: none"> <li>• Snap-on 96BCP</li> <li>Or equivalent.</li> </ul>