

# General Description

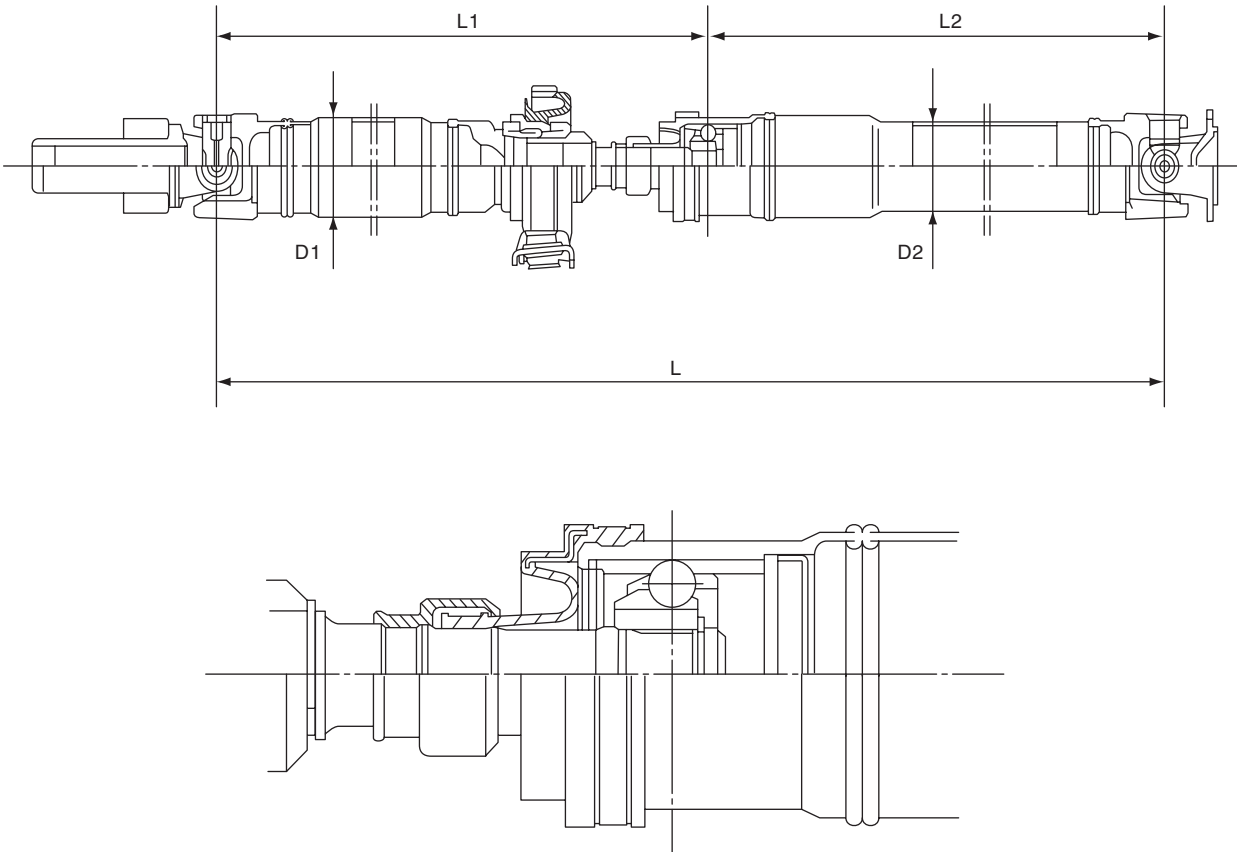
## DRIVE SHAFT SYSTEM

### 1. General Description

#### A: SPECIFICATION

##### 1. PROPELLER SHAFT

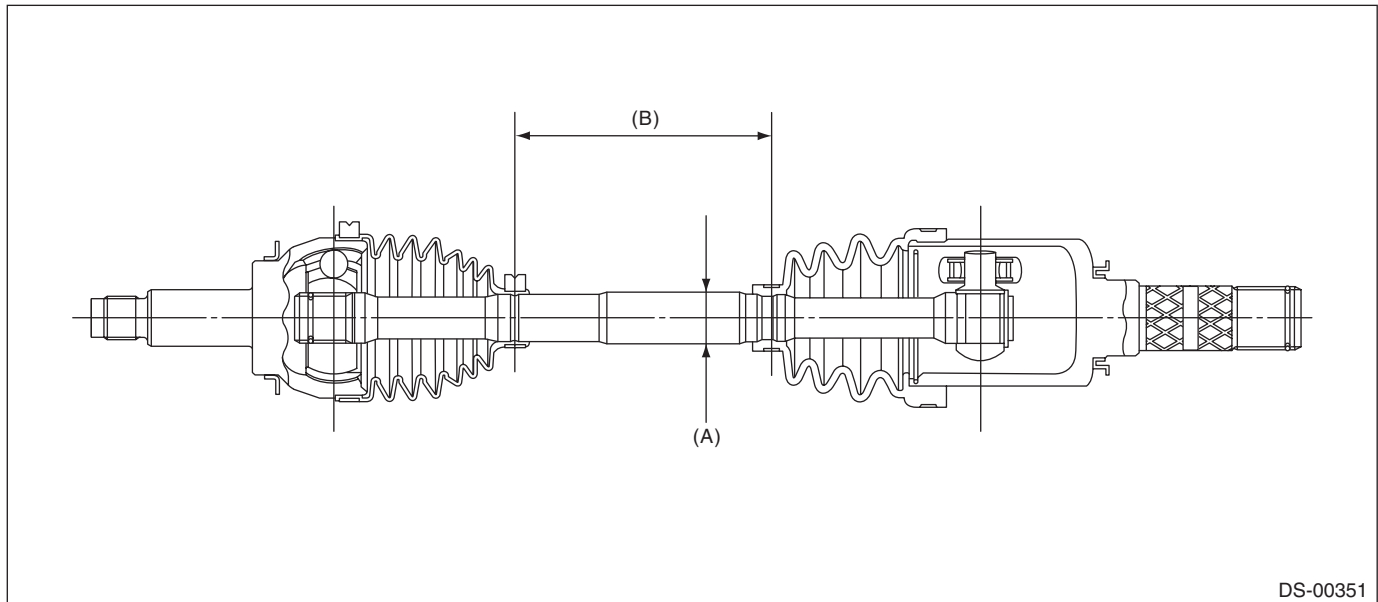
|                                                             |                |              |
|-------------------------------------------------------------|----------------|--------------|
| Propeller shaft type                                        |                | EDJ          |
| Propeller shaft length: L                                   | mm (in)        | 1,392 (54.8) |
| Front propeller shaft Joint-to-Joint length: L <sub>1</sub> | mm (in)        | 645 (25.39)  |
| Rear propeller shaft Joint-to-Joint length: L <sub>2</sub>  | mm (in)        | 747 (29.41)  |
| Outer diameter of tube:                                     | D <sub>1</sub> | 63.5 (2.50)  |
|                                                             | D <sub>2</sub> | 57.5 (2.26)  |



DS-00350

### 2. FRONT DRIVE SHAFT ASSEMBLY

| Type of drive shaft | Axle diameter $\phi$ D mm (in) | Axle length L mm (in) |
|---------------------|--------------------------------|-----------------------|
| EBJ + PTJ           | 26 (1.0)                       | 388.5 (15.30)         |

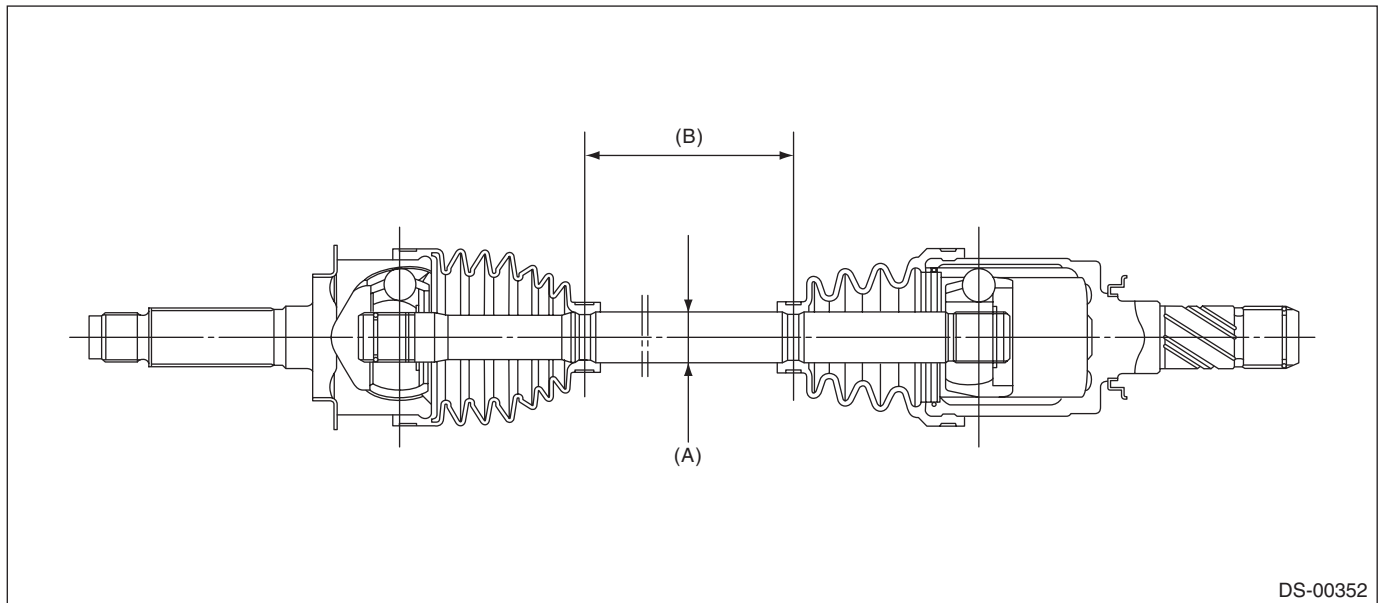


(A) Axle diameter

(B) Axle length

### 3. REAR DRIVE SHAFT ASSEMBLY

| Type of drive shaft | Axle diameter $\phi$ D mm (in) | Axle length L mm (in) |
|---------------------|--------------------------------|-----------------------|
| EBJ + DOJ           | 24 (0.94)                      | 386.8 (15.23)         |



(A) Axle diameter

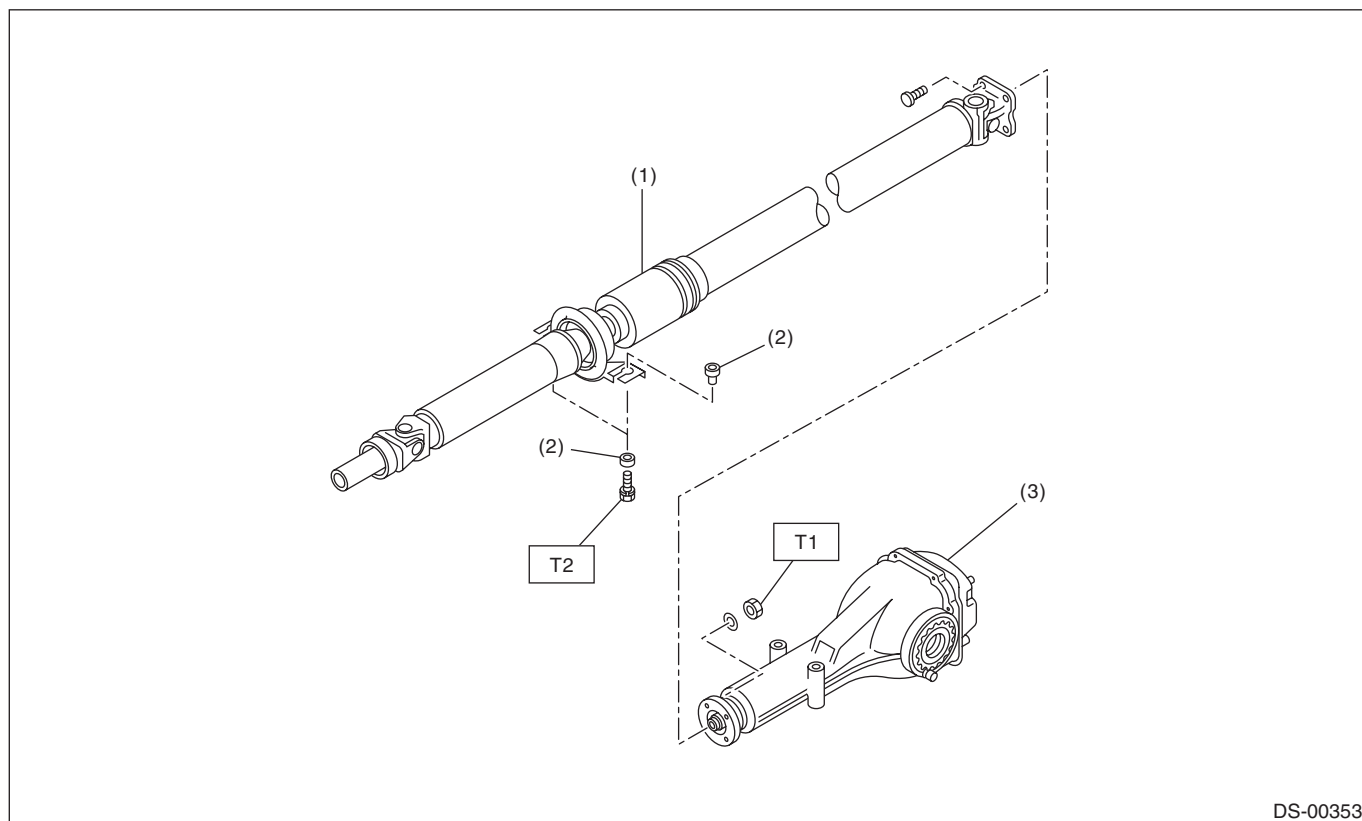
(B) Axle length

# General Description

## DRIVE SHAFT SYSTEM

### B: COMPONENT

#### 1. PROPELLER SHAFT



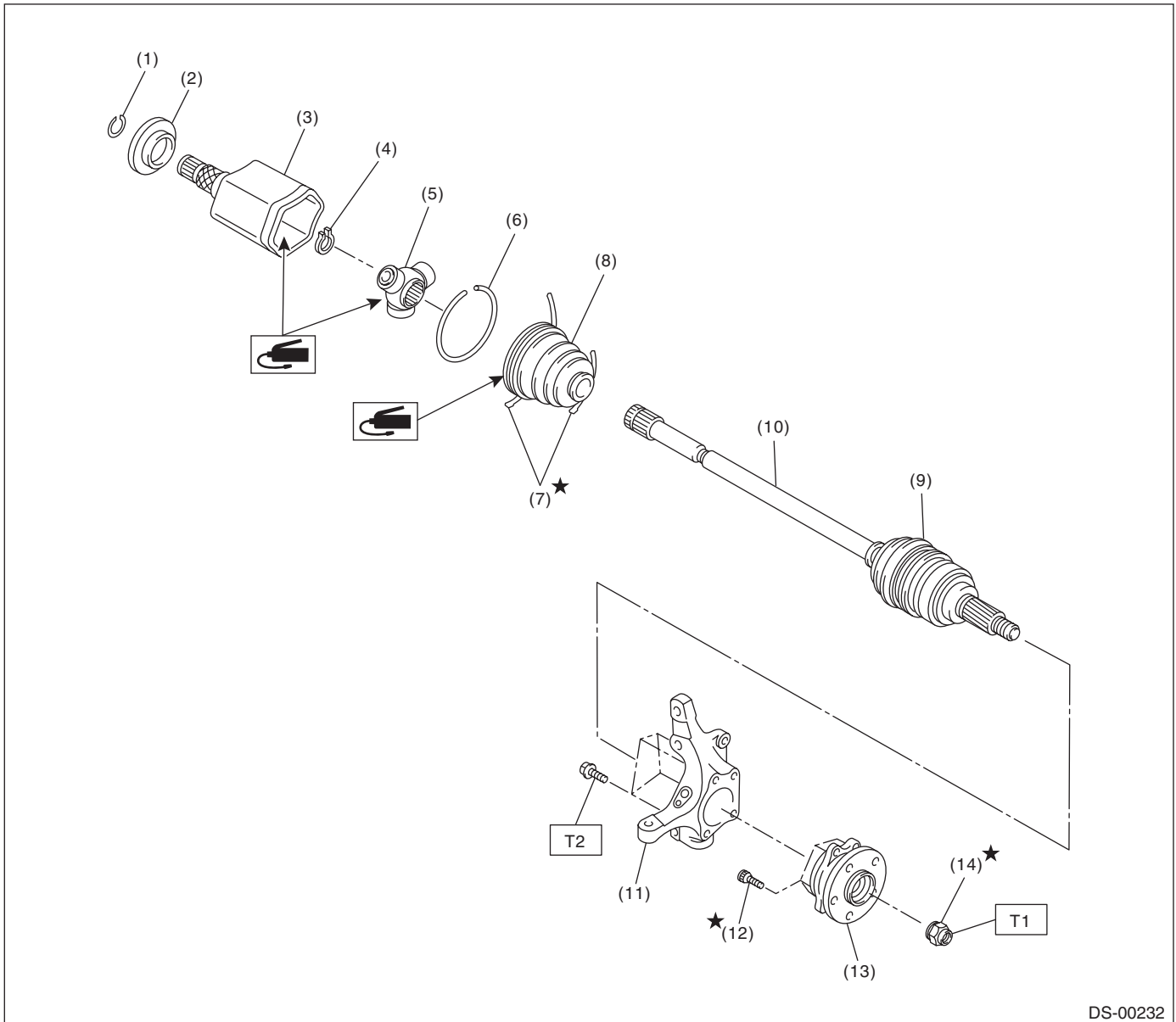
- (1) Propeller shaft
- (2) Bushing
- (3) Rear differential (VA-type)

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

**T1: 31 (3.2, 23.1)**

**T2: 52 (5.3, 38.3)**

## 2. FRONT AXLE



DS-00232

- (1) Circlip
- (2) Baffle plate
- (3) Outer race (PTJ)
- (4) Snap ring
- (5) Trunnion
- (6) Snap ring

- (7) Boot band
- (8) Boot (PTJ)
- (9) Boot (EBJ)
- (10) EBJ shaft ASSY
- (11) Front housing
- (12) Hub bolt

- (13) Front hub unit bearing
- (14) Axle nut

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

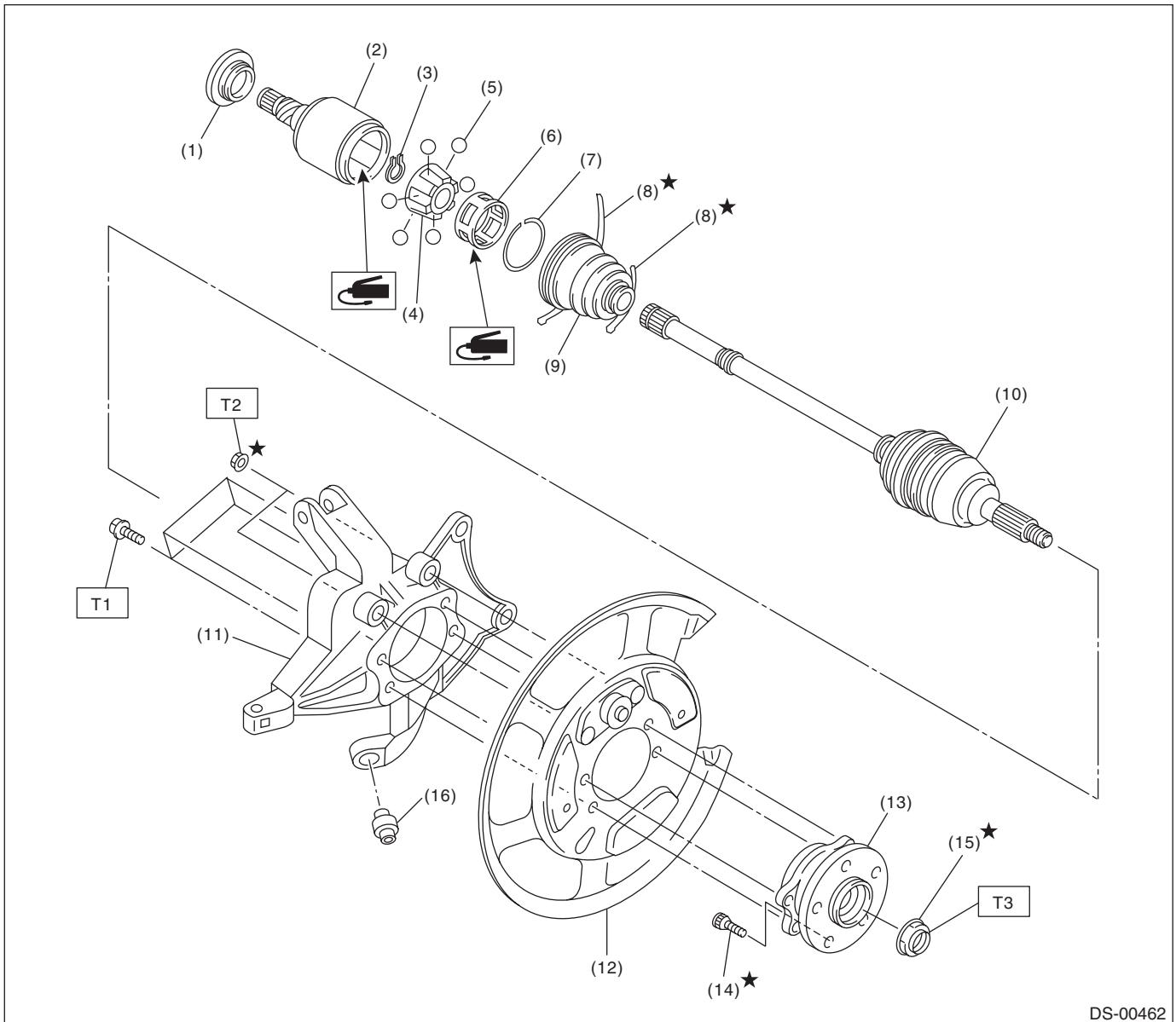
**T1: 240 (24.5, 177)**

**T2: 65 (6.6, 47.9)**

# General Description

## DRIVE SHAFT SYSTEM

### 3. REAR AXLE



- (1) Baffle plate (DOJ)
- (2) Outer race (DOJ)
- (3) Snap ring
- (4) Inner race
- (5) Ball
- (6) Cage
- (7) Snap ring

- (8) Boot band
- (9) Boot (DOJ)
- (10) EBJ shaft ASSY
- (11) Rear housing
- (12) Back plate
- (13) Rear hub unit bearing
- (14) Hub bolt

- (15) Axle nut
- (16) Bushing

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

**T1: 65 (6.6, 47.9)**

**T2: 75 (7.6, 55.3)**

**T3: 240 (24.5, 177)**

## **C: CAUTION**

Please clearly understand and adhere to the following general precautions. They must be strictly followed to avoid any injury to the person doing the work or people in the area.

### **1. OPERATION**

- Wear appropriate work clothing, including a cap, 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 material such as wood blocks, aluminum plate, or shop cloth between the part and the vise.

### **2. OIL**

When handling oil, follow the rules below to prevent unexpected accidents.

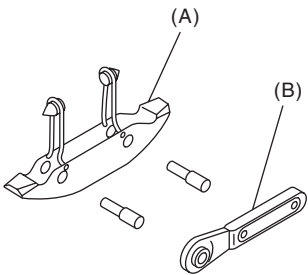
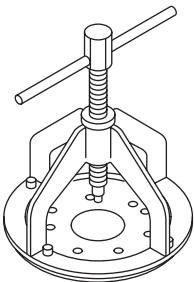
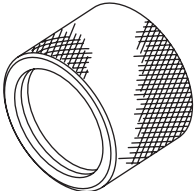
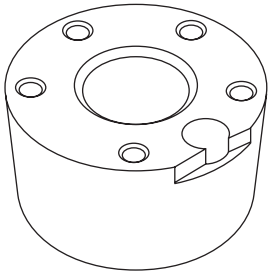
- Prepare container and waste cloths when performing work which oil could possibly spill. If oil spills, wipe it off immediately to prevent from penetrating into floor or flowing outside, for environmental protection.
- Follow all government and local regulations concerning waste disposal.

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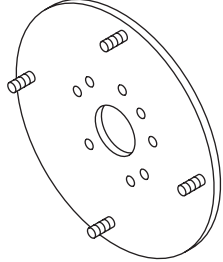
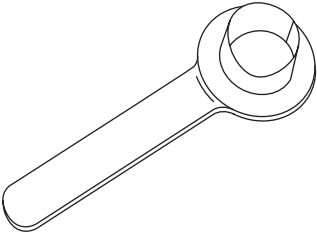
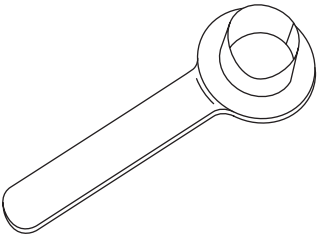
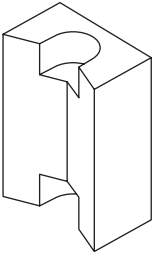
### D: PREPARATION TOOL

#### 1. SPECIAL TOOL

| ILLUSTRATION                                                                                            | TOOL NUMBER | DESCRIPTION                          | REMARKS                                                                          |
|---------------------------------------------------------------------------------------------------------|-------------|--------------------------------------|----------------------------------------------------------------------------------|
|  <p>ST-925091000</p>   | 925091000   | BAND TIGHTENING TOOL                 | Used for tightening the boot band.<br>(A) Jig for the band<br>(B) Ratchet wrench |
|  <p>ST-926470000</p>   | 926470000   | AXLE SHAFT PULLER                    | Used for removing the axle shaft.                                                |
|  <p>ST18675AA000</p> | 18675AA000  | DIFFERENTIAL SIDE OIL SEAL INSTALLER | Used for installing the differential side retainer oil seal.                     |
|  <p>ST28099PA080</p> | 28099PA080  | HUB STAND                            | Used for assembling hub bolt in hub.                                             |

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| ILLUSTRATION                                                                                            | TOOL NUMBER | DESCRIPTION             | REMARKS                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------|-------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>ST28099PA110</p>   | 28099PA110  | AXLE SHAFT PULLER PLATE | Same as plate 2 included in AXLE SHAFT PULLER (926470000).                                                                                                 |
|  <p>ST28099PA090</p>   | 28099PA090  | OIL SEAL PROTECTOR      | <ul style="list-style-type: none"> <li>Used for installing the rear drive shaft to the rear differential.</li> <li>For protecting the oil seal.</li> </ul> |
|  <p>ST28399SA010</p>  | 28399SA010  | OIL SEAL PROTECTOR      | <ul style="list-style-type: none"> <li>Used for installing front drive shaft into front differential.</li> <li>For protecting the oil seal.</li> </ul>     |
|  <p>ST28399AG000</p> | 28399AG000  | HUB STAND               | Used for extracting hub bolt.                                                                                                                              |

## 2. GENERAL TOOL

| TOOL NAME     | REMARKS                                            |
|---------------|----------------------------------------------------|
| Puller        | Used for removing the ball joint from knuckle arm. |
| Dial gauge    | Used for inspecting the propeller shaft run-out.   |
| Extension cap | Used for preventing leakage of gear oil or ATF.    |
| Bar           | Used for extracting drive shaft.                   |