

2. Front Axle

A: GENERAL

- The inboard end of each axle shaft is connected to the transmission via a constant velocity joint which is flexible in the axial directions while the outboard end is connected via a bell joint (BJ) to the wheel hub which is supported by a taper roller bearing located inside the axle housing. The BJ features a large operating angle.

Both the constant velocity joints ensure smooth, regular rotation of the drive wheels with minimum vibration.

- The bearing is a preloaded, non-adjustable tapered roller unit bearing.

Each hub is fitted in the axle housing via the tapered roller bearing.

- The BJ's spindle is splined to the hub and is secured with an axle nut clinched to it.

- The disc rotor is an external mounting type. It is secured to the disc wheel using hub bolts to facilitate maintenance of the disc rotor.

1) 3.0 L engine models

- The hubs are induction-hardened.

2) 2.5 L engine models

- The hubs are same as those used in the previous model.

3) Driveshaft types

- BAJA non-turbo AT models: AARi type (female spindle)

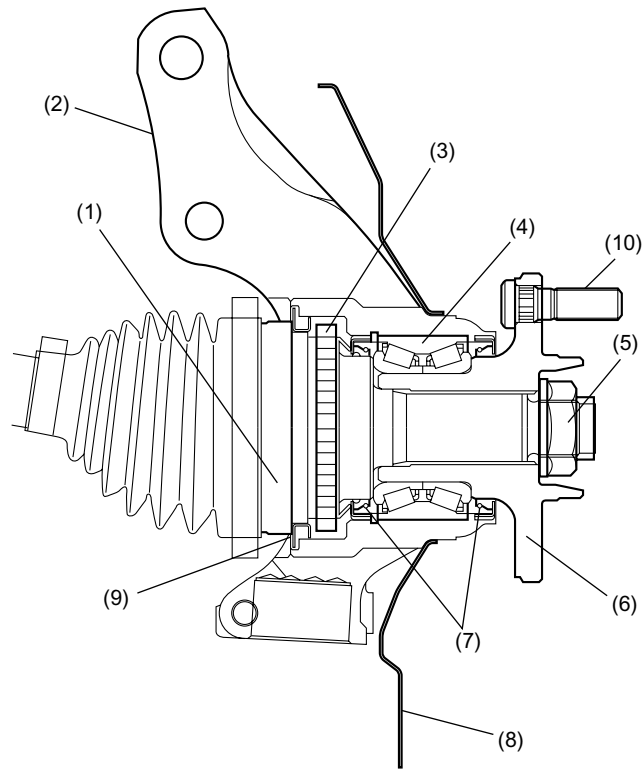
- BAJA turbo AT models: AARi type (male spindle)

- BAJA turbo MT models: AARi type (male spindle)

- Others: SFJ type

FRONT AXLE

DRIVE SHAFT SYSTEM

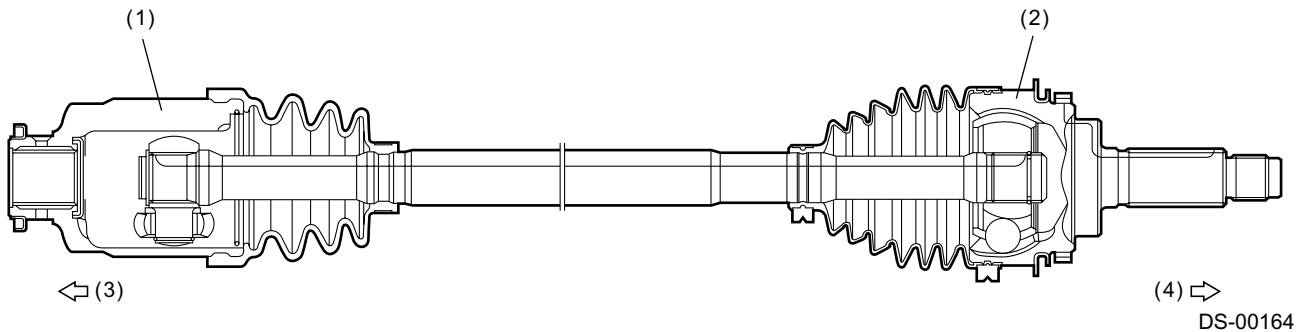


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|---------------------|-------------------------|------------------|
| (1) Bell joint (BJ) | (5) Axle nut | (9) Baffle plate |
| (2) Axle housing | (6) Hub | (10) Hub bolt |
| (3) Tone wheels | (7) Oil seal | |
| (4) Bearing | (8) Brake backing plate | |

B: FRONT DRIVE SHAFT**1. SFJ TYPE**

- A shudder-less free ring tripod joint (SFJ) is used on the differential side of each front drive shaft. The SFJ can be disassembled for maintenance. It provides a maximum operating angle of 25° and can move in axial directions.
- A bell joint (BJ) is used on the wheel side of each front drive shaft. The BJ's maximum operating angle is 47.5° .



(1) Shudder-less free ring tripod joint (SFJ)

(2) Bell joint (BJ)

(3) Transmission side

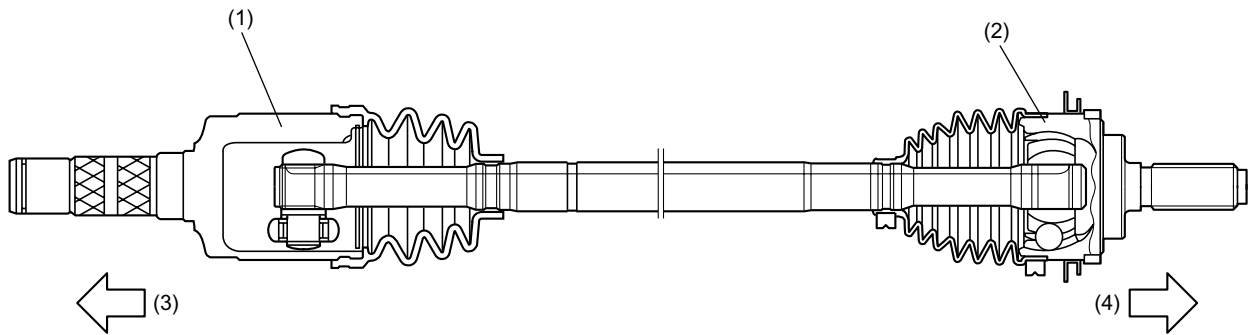
(4) Wheel side

FRONT AXLE

DRIVE SHAFT SYSTEM

2. AARi TYPE

- An AARi (Angular Adjusted Roller-improved) joint is used on the transmission side of each front drive shaft. The AARi can be disassembled for maintenance. The AARi provides a maximum operating angle of 23° and can move in axial directions.
- An AC (Angular Contact) joint is used on the wheel side of each front drive shaft. The AC's maximum operating angle is 47.5° .



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- (1) AARi
- (2) AC

- (3) Transmission side
- (4) Wheel side

NOTE:

- The male spindle type is shown.
- AARi with female spindle also exists. (for BAJA non-turbo AT models)