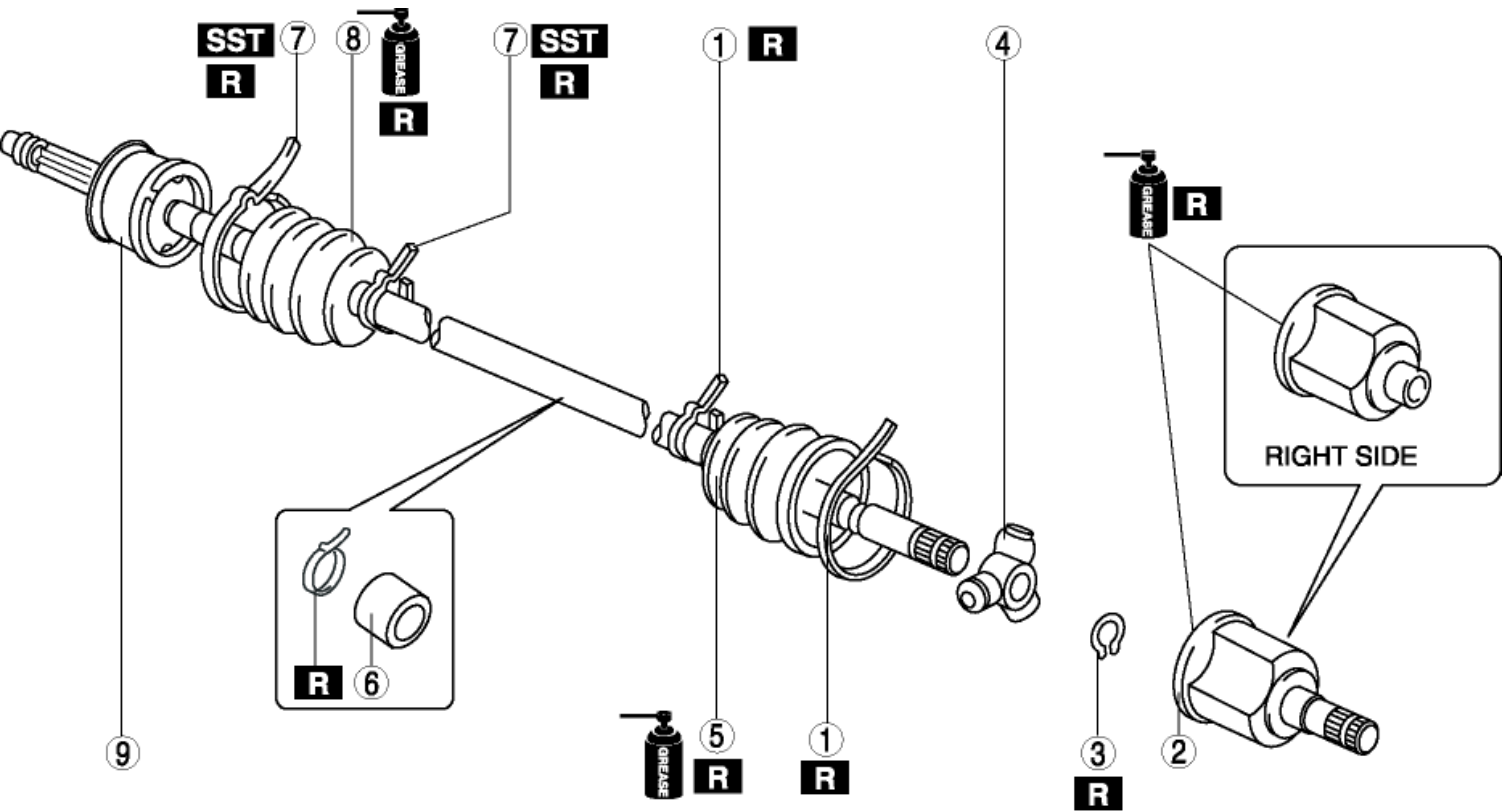


2012 - Mazda6 - DriveLine/ Axle

DRIVE SHAFT (TRIPOD JOINT) DISASSEMBLY/ ASSEMBLY

- 1. Disassemble in the order indicated in the table.
- 2. Assemble in the reverse order of disassembly.

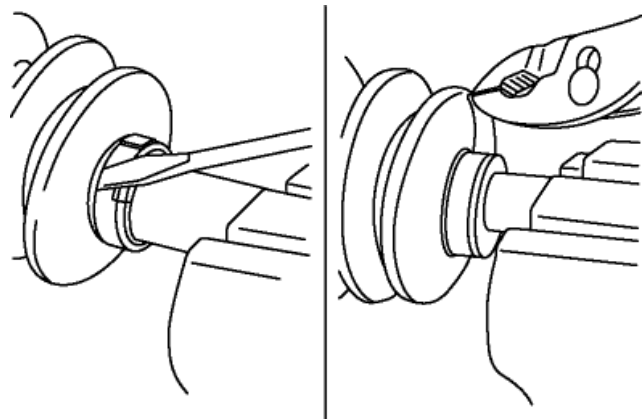


1	Boot band (transaxle side) (See Boot Band (Transaxle Side) Disassembly Note.) (See Boot Band (Transaxle Side) Assembly Note.)
2	Outer ring (See Outer Ring Disassembly Note.) (See Outer Ring Assembly Note.)
3	Snap ring (See Snap Ring, Tripod Joint Disassembly Note.) (See Tripod Joint, Snap Ring Assembly Note.)
4	Tripod joint (See Snap Ring, Tripod Joint Disassembly Note.) (See Tripod Joint, Snap Ring Assembly Note.)

5	Boot (See Boot Disassembly Note.) (See Boot Assembly Note.)
6	Dynamic damper (See Dynamic Damper Assembly Note.)
7	Boot band (wheel side) (See Boot Band (Wheel Side) Disassembly Note.) (See Boot Band (Wheel Side) Assembly Note.)
8	Boot (See Boot Disassembly Note.) (See Boot Assembly Note.)
9	Shaft and ball joint component

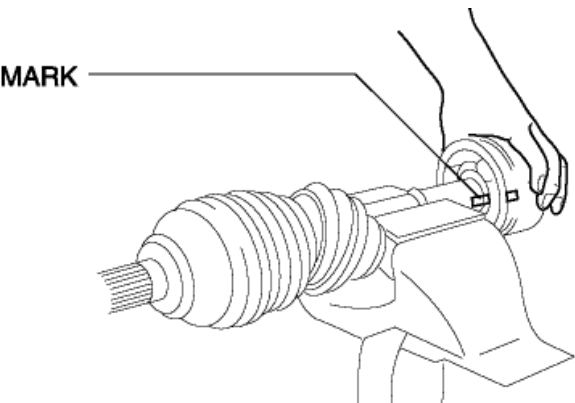
Boot Band (Transaxle Side) Disassembly Note

1. Pry up the points indicated in the figure using a pliers, and remove the boot band.



Outer Ring Disassembly Note

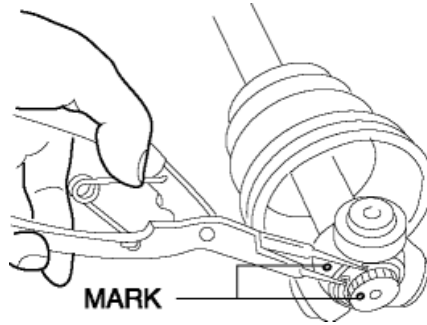
1. Place an alignment mark on the drive shaft and outer ring.



2. Remove the outer ring.

Snap Ring, Tripod Joint Disassembly Note

1. Place an alignment mark on the shaft and tripod joint.
2. Remove the snap ring using snap ring pliers.



3. Remove the tripod joint from the shaft.

CAUTION:

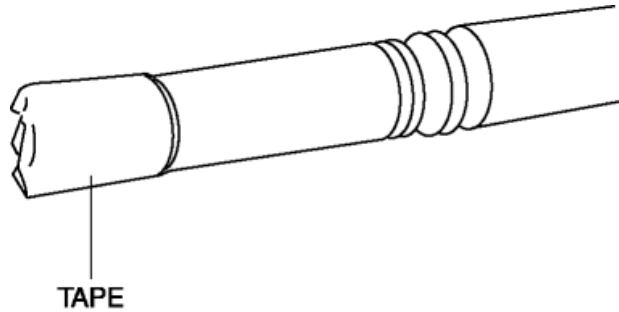
- Do not tap the tripod joint with a hammer.

Boot Disassembly Note

NOTE:

- Remove the wheel side boot only if there is any malfunction.

1. Wrap the shaft splines with tape.



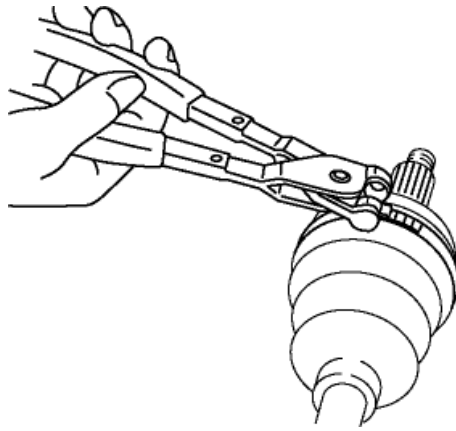
2. Remove the boot.

Boot Band (Wheel Side) Disassembly Note

NOTE:

- Remove the boot band only if there is a malfunction.

1. Remove the boot band using end clamp pliers.



Boot Assembly Note

NOTE:

- The boot shapes on the wheel side and the differential side are different. Do not install the wrong boot by mistake.

- Fill the inside of the new dust boot (wheel side) with grease.

CAUTION:

- Do not touch the grease with your hand. Apply it from the tube to prevent foreign matter from entering the boot.

Grease amount

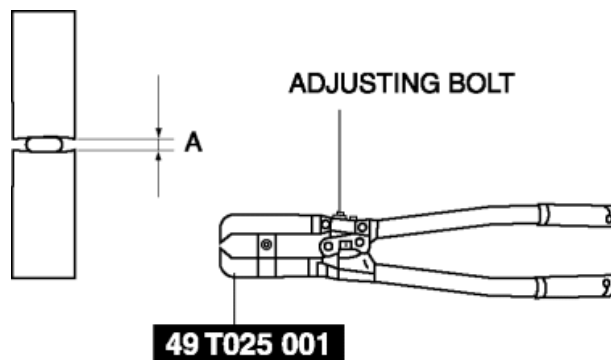
- MZR 2.5 (ATX): 100—120 g {3.53—4.23 oz}
- MZI 3.7 V6: 110—130 g {3.89—4.58 oz}

- Install the boot with the drive shaft spline still wrapped with vinyl tape.
- Remove the vinyl tape.

Boot Band (Wheel Side) Assembly Note

Boot band (small diameter side)

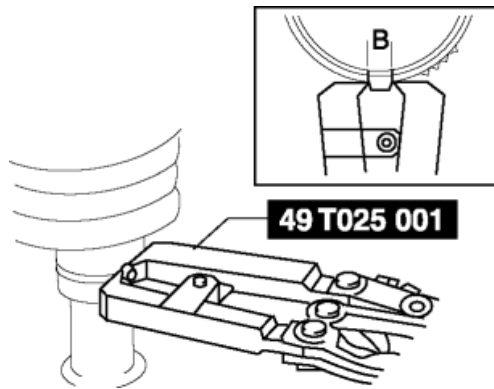
- Adjust clearance A by turning the adjusting bolt of the SST.



Clearance A

- 2.9 mm {0.11 in}

- Crimp the wheel side small boot band using the SST. Verify that clearance B is within the specification.



- If clearance B is more than the specification, reduce clearance A of the **SST** and crimp the boot again.
- If clearance B is less than the specification, replace the boot band, increase clearance A of the SST, and crimp the new boot.

Clearance B

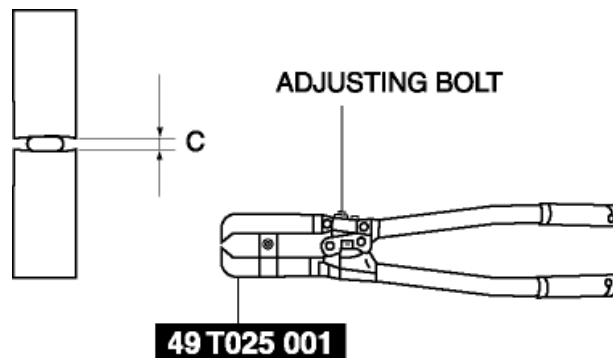
- 2.4—2.8 mm {0.095—0.110 in}

3. Verify that the boot band does not protrude from the boot band installation area.

- If it does, replace the boot band and repeat Steps 2 and 3.

Boot band (Large diameter side)

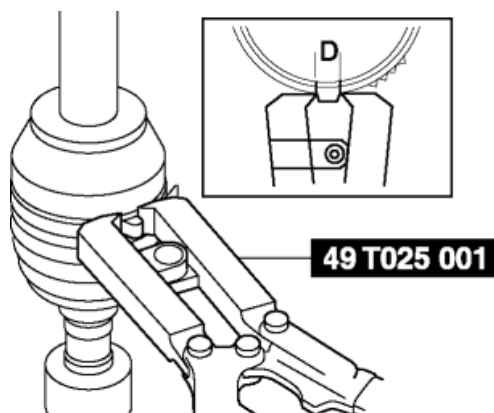
1. Adjust clearance C by turning the adjusting bolt of the **SST**.



Clearance C

- 3.2 mm {0.13 in}

2. Crimp the wheel side small boot band using the **SST**. Verify that clearance D is within the specification.



- If clearance B is more than the specification, reduce clearance C of the **SST** and crimp the boot again.
- If clearance B is less than the specification, replace the boot band, increase clearance C of the **SST**, and crimp the new boot.

Clearance D

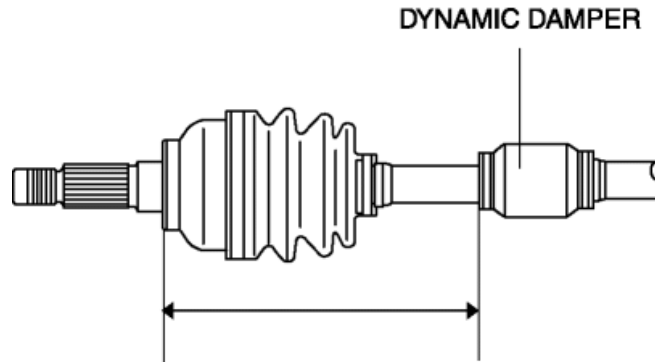
- 2.4—2.8 mm {0.095—0.110 in}

3. Verify that the boot band does not protrude from the boot band installation area.

- If it does, replace the boot band and repeat Steps 2 and 3.

Dynamic Damper Assembly Note

1. Install the dynamic damper as shown in the figure.

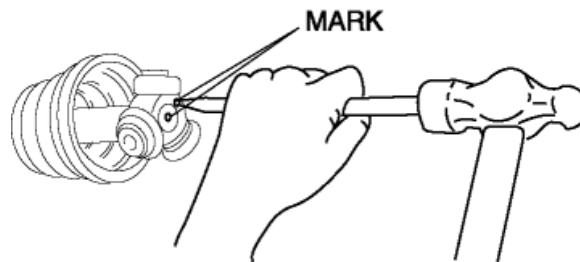
**Standard length**

- MZR 2.5: 245—251 mm {9.65—9.88 in}
- MZI 3.7 V6: 198—204 mm {7.80—8.03 in}

2. Install a new boot band onto the dynamic damper.

Tripod Joint, Snap Ring Assembly Note

1. While aligning the marks on the shaft and the tripod joint, insert the tripod joint using a bar and a hammer.

**CAUTION:**

- Do not tap the roller with a hammer.

2. Insert a new snap ring using snap ring pliers.

CAUTION:

- Be sure the snap ring engages correctly in the groove of the shaft.

Outer Ring Assembly Note

1. Fill the outer ring and boot (transaxle side) with the specified grease.

CAUTION:

- Do not touch the grease with your hand. Apply it from the tube to prevent foreign matter from entering the boot.

Grease amount

- MZR 2.5 (ATX): 185—205 g {6.53—7.32 oz}
- MZI 3.7 V6: 255—275 g {10.1—10.8 oz}

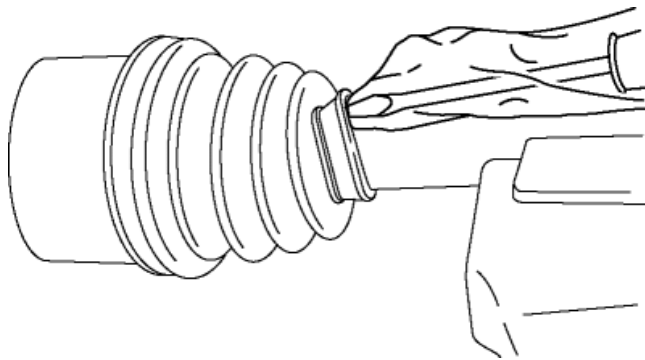
2. Assemble the outer ring.

3. Set the drive shaft to the standard length.

Drive shaft standard length

- MZR 2.5 (ATX)
 - LH: 703.2—713.2 mm {27.69—28.07 in}
 - RH: 659.3—669.3 mm {25.96—26.35 in}
- MZI 3.7 V6
 - LH: 636.2—646.2 mm {25.05—25.44 in}
 - RH: 608.2—618.2 mm {23.95—24.33 in}

4. Release any trapped air from the boots by carefully lifting up the small end of each boot with a cloth wrapped screwdriver.



CAUTION:

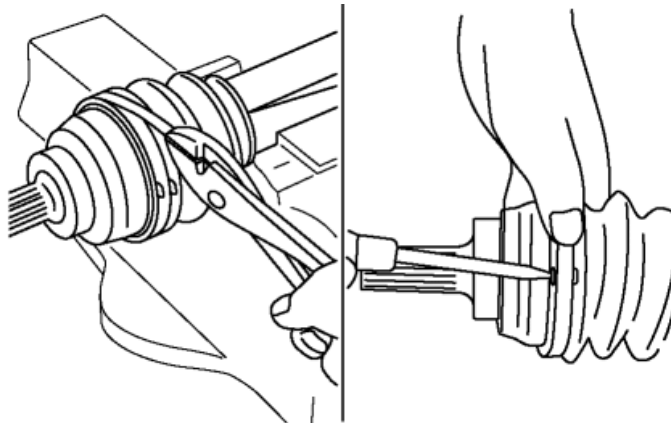
- Do not let the grease leak.
- Do not damage the boot.

5. Verify that the drive shaft length is within the specification under atmospheric pressure inside the boot.

- If not within the specification, repeat from Step 3.

Boot Band (Transaxle Side) Assembly Note

1. Pry up the points indicated in the figure using a pliers, and tighten the boot band.



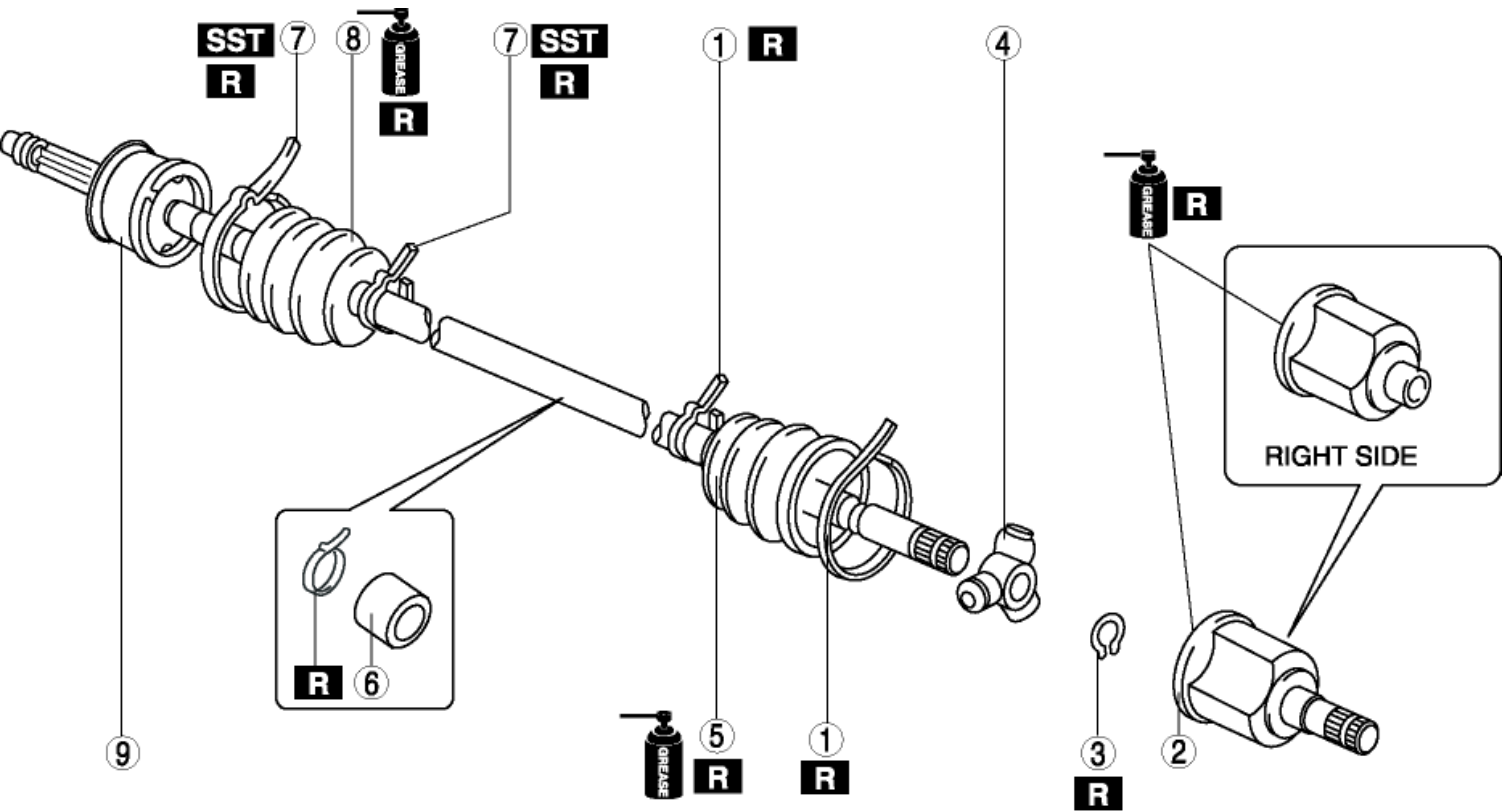
CAUTION:

- Verify that the boot band is installed into the groove securely.

2012 - Mazda6 - DriveLine/ Axle

DRIVE SHAFT (TRIPOD JOINT) DISASSEMBLY/ ASSEMBLY

- 1. Disassemble in the order indicated in the table.
- 2. Assemble in the reverse order of disassembly.

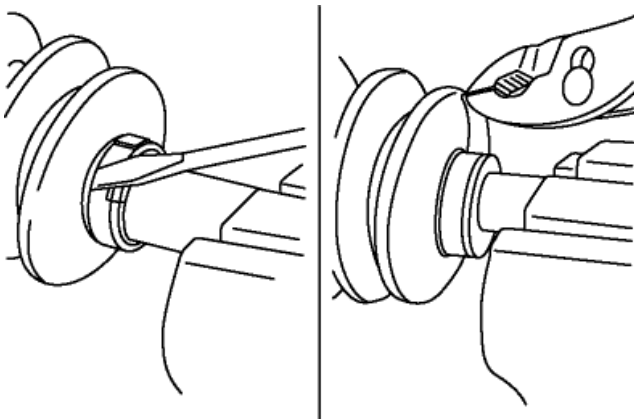


1	Boot band (transaxle side) (See Boot Band (Transaxle Side) Disassembly Note.) (See Boot Band (Transaxle Side) Assembly Note.)
2	Outer ring (See Outer Ring Disassembly Note.) (See Outer Ring Assembly Note.)
3	Snap ring (See Snap Ring, Tripod Joint Disassembly Note.) (See Tripod Joint, Snap Ring Assembly Note.)
4	Tripod joint (See Snap Ring, Tripod Joint Disassembly Note.) (See Tripod Joint, Snap Ring Assembly Note.)

5	Boot (See Boot Disassembly Note.) (See Boot Assembly Note.)
6	Dynamic damper (See Dynamic Damper Assembly Note.)
7	Boot band (wheel side) (See Boot Band (Wheel Side) Disassembly Note.) (See Boot Band (Wheel Side) Assembly Note.)
8	Boot (See Boot Disassembly Note.) (See Boot Assembly Note.)
9	Shaft and ball joint component

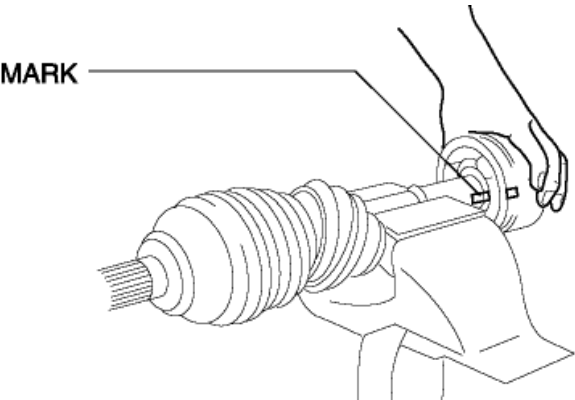
Boot Band (Transaxle Side) Disassembly Note

1. Pry up the points indicated in the figure using a pliers, and remove the boot band.



Outer Ring Disassembly Note

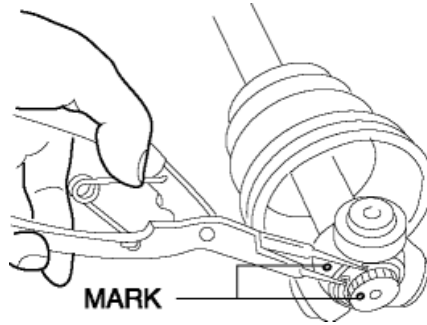
1. Place an alignment mark on the drive shaft and outer ring.



2. Remove the outer ring.

Snap Ring, Tripod Joint Disassembly Note

1. Place an alignment mark on the shaft and tripod joint.
2. Remove the snap ring using snap ring pliers.



3. Remove the tripod joint from the shaft.

CAUTION:

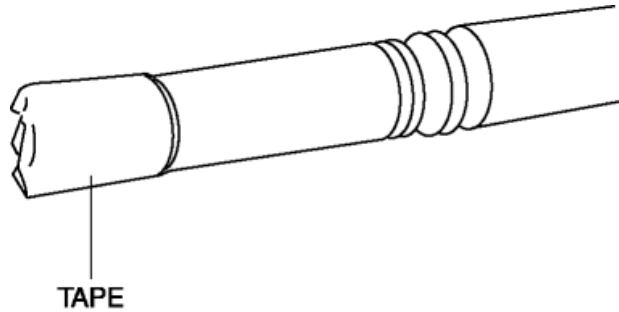
- Do not tap the tripod joint with a hammer.

Boot Disassembly Note

NOTE:

- Remove the wheel side boot only if there is any malfunction.

1. Wrap the shaft splines with tape.



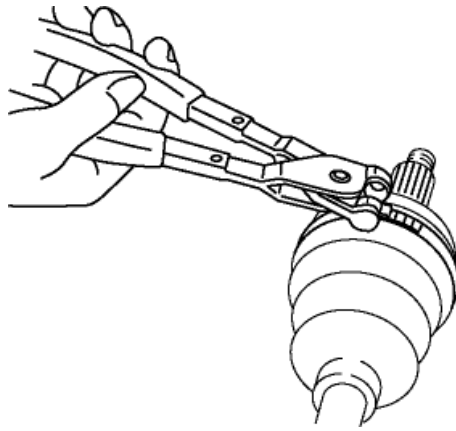
2. Remove the boot.

Boot Band (Wheel Side) Disassembly Note

NOTE:

- Remove the boot band only if there is a malfunction.

1. Remove the boot band using end clamp pliers.



Boot Assembly Note

NOTE:

- The boot shapes on the wheel side and the differential side are different. Do not install the wrong boot by mistake.

- Fill the inside of the new dust boot (wheel side) with grease.

CAUTION:

- Do not touch the grease with your hand. Apply it from the tube to prevent foreign matter from entering the boot.

Grease amount

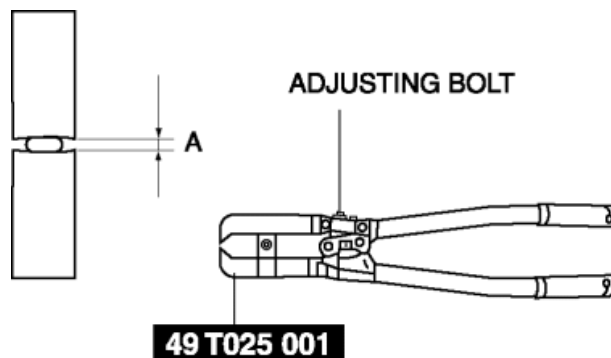
- MZR 2.5 (ATX): 100—120 g {3.53—4.23 oz}
- MZI 3.7 V6: 110—130 g {3.89—4.58 oz}

- Install the boot with the drive shaft spline still wrapped with vinyl tape.
- Remove the vinyl tape.

Boot Band (Wheel Side) Assembly Note

Boot band (small diameter side)

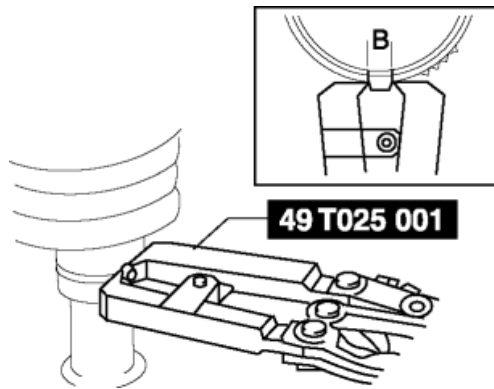
- Adjust clearance A by turning the adjusting bolt of the SST.



Clearance A

- 2.9 mm {0.11 in}

- Crimp the wheel side small boot band using the SST. Verify that clearance B is within the specification.



- If clearance B is more than the specification, reduce clearance A of the **SST** and crimp the boot again.
- If clearance B is less than the specification, replace the boot band, increase clearance A of the SST, and crimp the new boot.

Clearance B

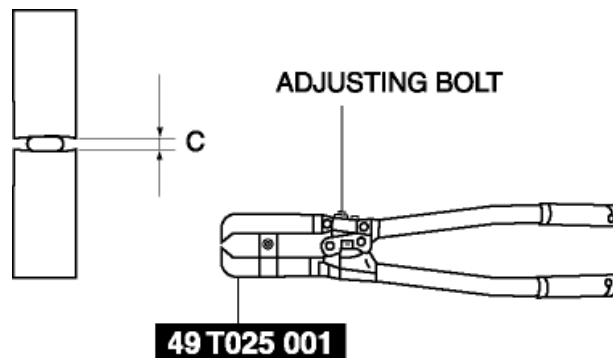
- 2.4—2.8 mm {0.095—0.110 in}

3. Verify that the boot band does not protrude from the boot band installation area.

- If it does, replace the boot band and repeat Steps 2 and 3.

Boot band (Large diameter side)

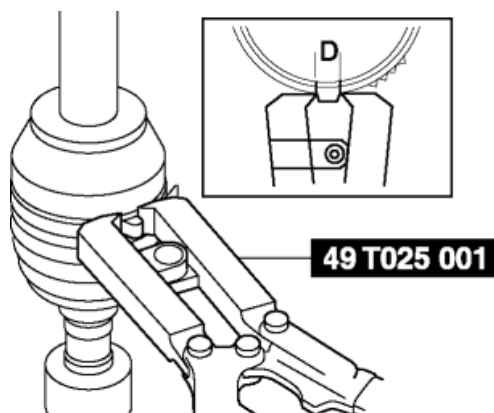
1. Adjust clearance C by turning the adjusting bolt of the **SST**.



Clearance C

- 3.2 mm {0.13 in}

2. Crimp the wheel side small boot band using the **SST**. Verify that clearance D is within the specification.



- If clearance B is more than the specification, reduce clearance C of the **SST** and crimp the boot again.
- If clearance B is less than the specification, replace the boot band, increase clearance C of the **SST**, and crimp the new boot.

Clearance D

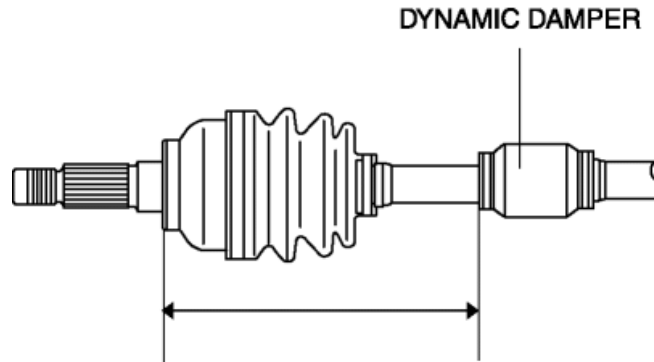
- 2.4—2.8 mm {0.095—0.110 in}

3. Verify that the boot band does not protrude from the boot band installation area.

- If it does, replace the boot band and repeat Steps 2 and 3.

Dynamic Damper Assembly Note

1. Install the dynamic damper as shown in the figure.

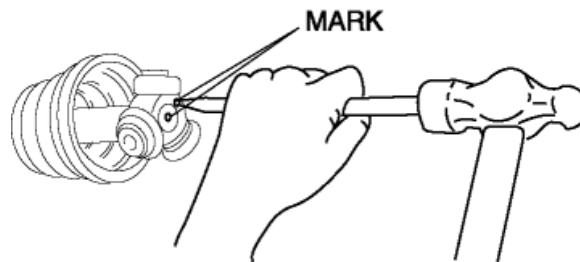
**Standard length**

- MZR 2.5: 245—251 mm {9.65—9.88 in}
- MZI 3.7 V6: 198—204 mm {7.80—8.03 in}

2. Install a new boot band onto the dynamic damper.

Tripod Joint, Snap Ring Assembly Note

1. While aligning the marks on the shaft and the tripod joint, insert the tripod joint using a bar and a hammer.

**CAUTION:**

- Do not tap the roller with a hammer.

2. Insert a new snap ring using snap ring pliers.

CAUTION:

- Be sure the snap ring engages correctly in the groove of the shaft.

Outer Ring Assembly Note

1. Fill the outer ring and boot (transaxle side) with the specified grease.

CAUTION:

- Do not touch the grease with your hand. Apply it from the tube to prevent foreign matter from entering the boot.

Grease amount

- MZR 2.5 (ATX): 185—205 g {6.53—7.32 oz}
- MZI 3.7 V6: 255—275 g {10.1—10.8 oz}

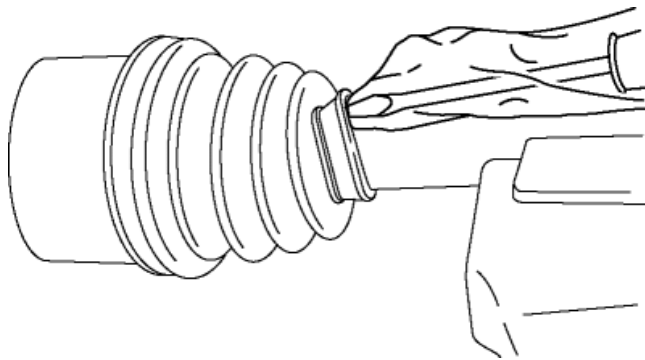
2. Assemble the outer ring.

3. Set the drive shaft to the standard length.

Drive shaft standard length

- MZR 2.5 (ATX)
 - LH: 703.2—713.2 mm {27.69—28.07 in}
 - RH: 659.3—669.3 mm {25.96—26.35 in}
- MZI 3.7 V6
 - LH: 636.2—646.2 mm {25.05—25.44 in}
 - RH: 608.2—618.2 mm {23.95—24.33 in}

4. Release any trapped air from the boots by carefully lifting up the small end of each boot with a cloth wrapped screwdriver.



CAUTION:

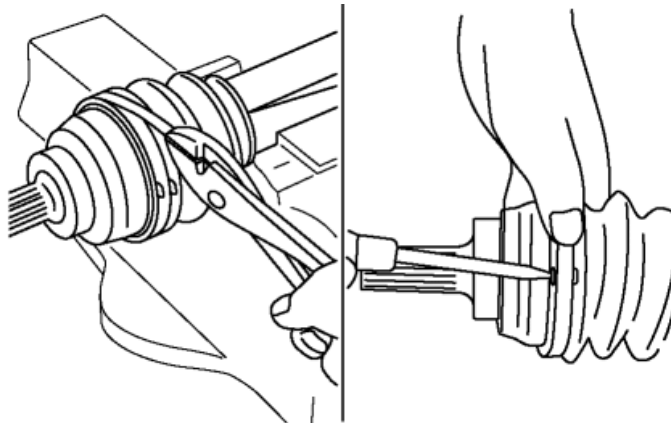
- Do not let the grease leak.
- Do not damage the boot.

5. Verify that the drive shaft length is within the specification under atmospheric pressure inside the boot.

- If not within the specification, repeat from Step 3.

Boot Band (Transaxle Side) Assembly Note

1. Pry up the points indicated in the figure using a pliers, and tighten the boot band.



CAUTION:

- Verify that the boot band is installed into the groove securely.

