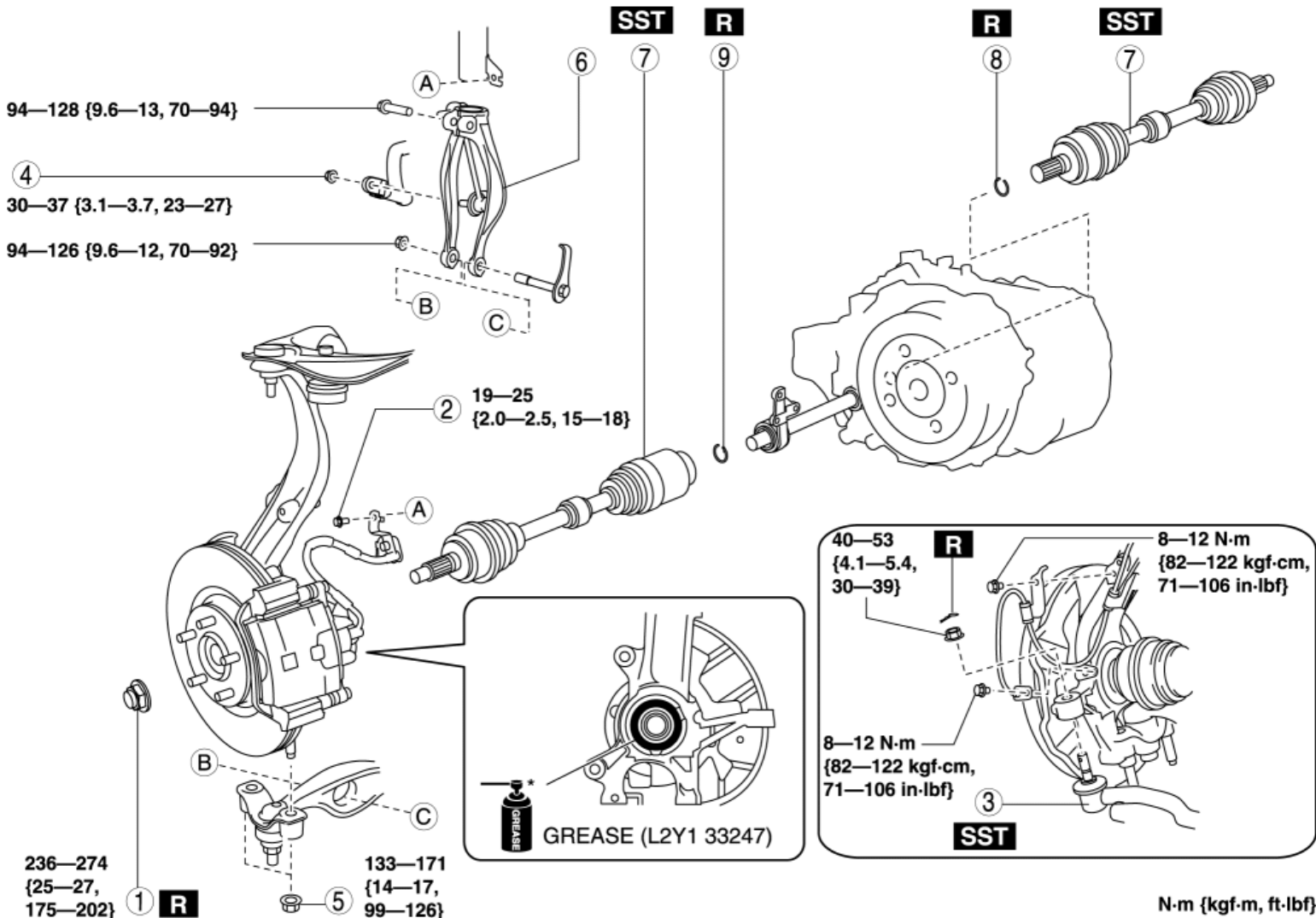
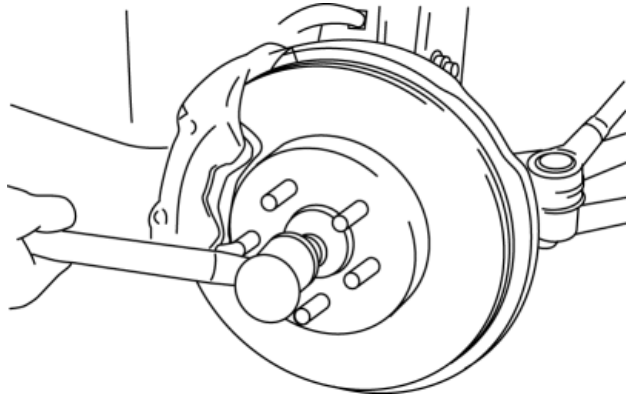




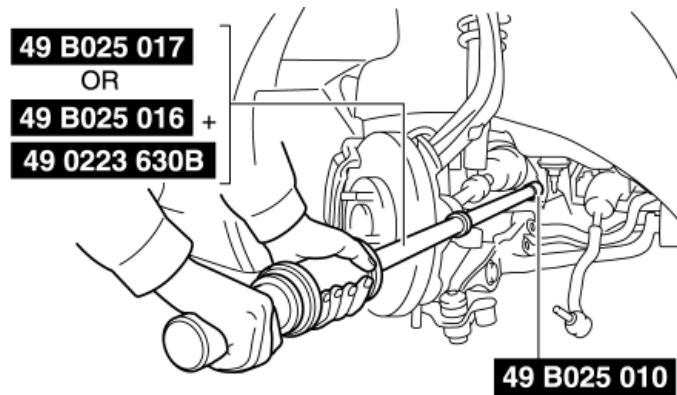
1	Locknut
2	Bolt (brake hose)
3	Tie-rod end ball joint (See FRONT CROSSMEMBER REMOVAL/ INSTALLATION [MZR 2.5].) (See FRONT CROSSMEMBER REMOVAL/ INSTALLATION [MZI 3.7 V6].)
4	Nut (front stabilizer control link lower side)
5	Nut (lower arm) (See WHEEL HUB, STEERING KNUCKLE REMOVAL/ INSTALLATION.)
6	Damper fork (See FRONT SHOCK ABSORBER AND COIL SPRING REMOVAL/ INSTALLATION.)
7	Drive shaft (See Drive Shaft Removal Note.) (See Drive Shaft Installation Note.)
8	Drive shaft clip (See Drive Shaft Clip Installation Note.)
9	Joint shaft clip (See JOINT SHAFT REMOVAL/ INSTALLATION.)

Drive Shaft Removal Note

1. Install a spare nut onto the drive shaft.
2. Tap the nut with a copper hammer and separate the drive shaft from the axle.

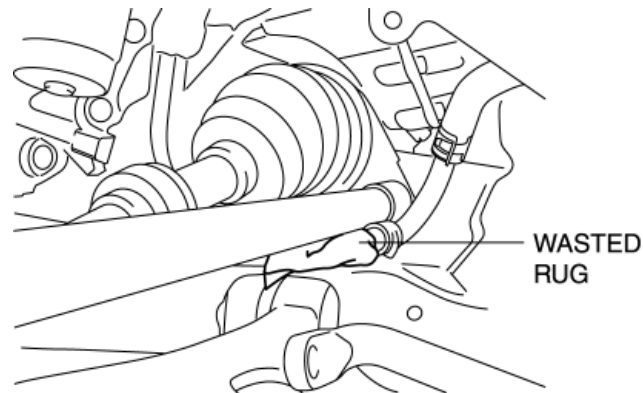


3. Separate the drive shaft from the wheel hub.
4. Separate the drive shaft (LH) from the transaxle by using the **SSTs**.

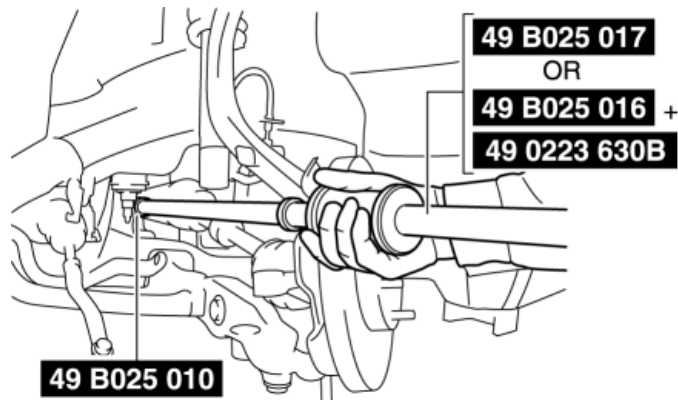


CAUTION:

- The sharp edges of the drive shaft can slice or puncture the oil seal. Be careful when removing the drive shaft from the transaxle.
- For MZR 2.5 engine model, use a wasted rug to protect the power steering oil pipe.



5. Disconnect the drive shaft (RH) from the joint shaft by using the SSTs.

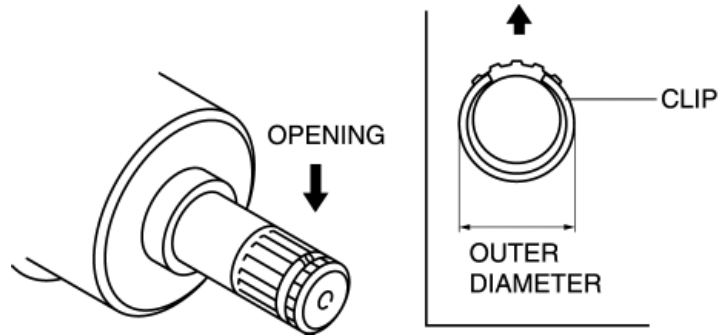


6. Install the SST to the transaxle after the drive shaft is removed.



Drive Shaft Clip Installation Note

1. Install a new drive shaft clip to the clip groove at the end of the drive shaft with the clip opening facing upward and the clip width within the specification.



Standard

- MZR 2.5: 31.2 mm {1.23 in} or less
- MZI 3.7 V6: 34.0 mm {1.34 in} or less

2. After installation, measure the outer diameter.

- If it exceeds the specification, repeat installation using a new clip.

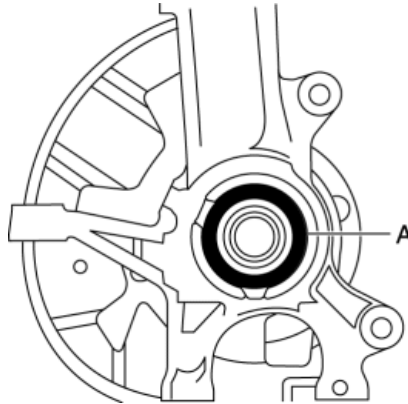
Drive Shaft Installation Note

Left side

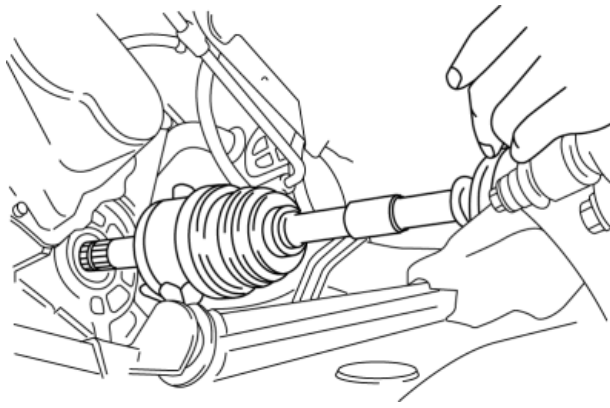
CAUTION:

- The sharp edges of the drive shaft can slice or puncture the oil seal. Be careful when installing the drive shaft from the transaxle.

1. Apply grease (L2Y1 33247) to the wheel bearing inner race and drive shaft contact surface (Area A in figure).



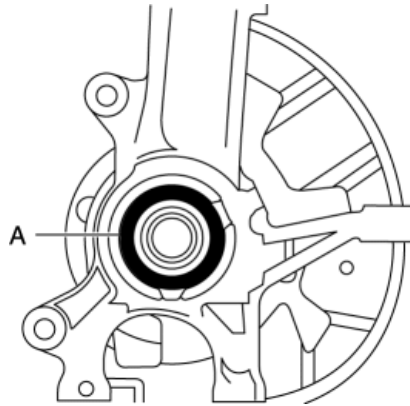
2. Insert the drive shaft into the wheel hub.
3. Apply transaxle oil or ATF to the oil seal lip.
4. Install the drive shaft to the transaxle.



5. After installation, pull the transaxle side outer ring forward to confirm that the drive shaft is securely held by the clip.

Right side

1. Install a new clip onto the joint shaft. (See [JOINT SHAFT REMOVAL/ INSTALLATION](#).)
2. Apply grease (L2Y1 33247) to the wheel bearing inner race and drive shaft contact surface (Area A in figure).



3. Insert the drive shaft to the wheel hub.
4. Insert the drive shaft to the joint shaft.
5. After installation, pull the transaxle side outer ring forward to confirm that the drive shaft is securely held by the clip.

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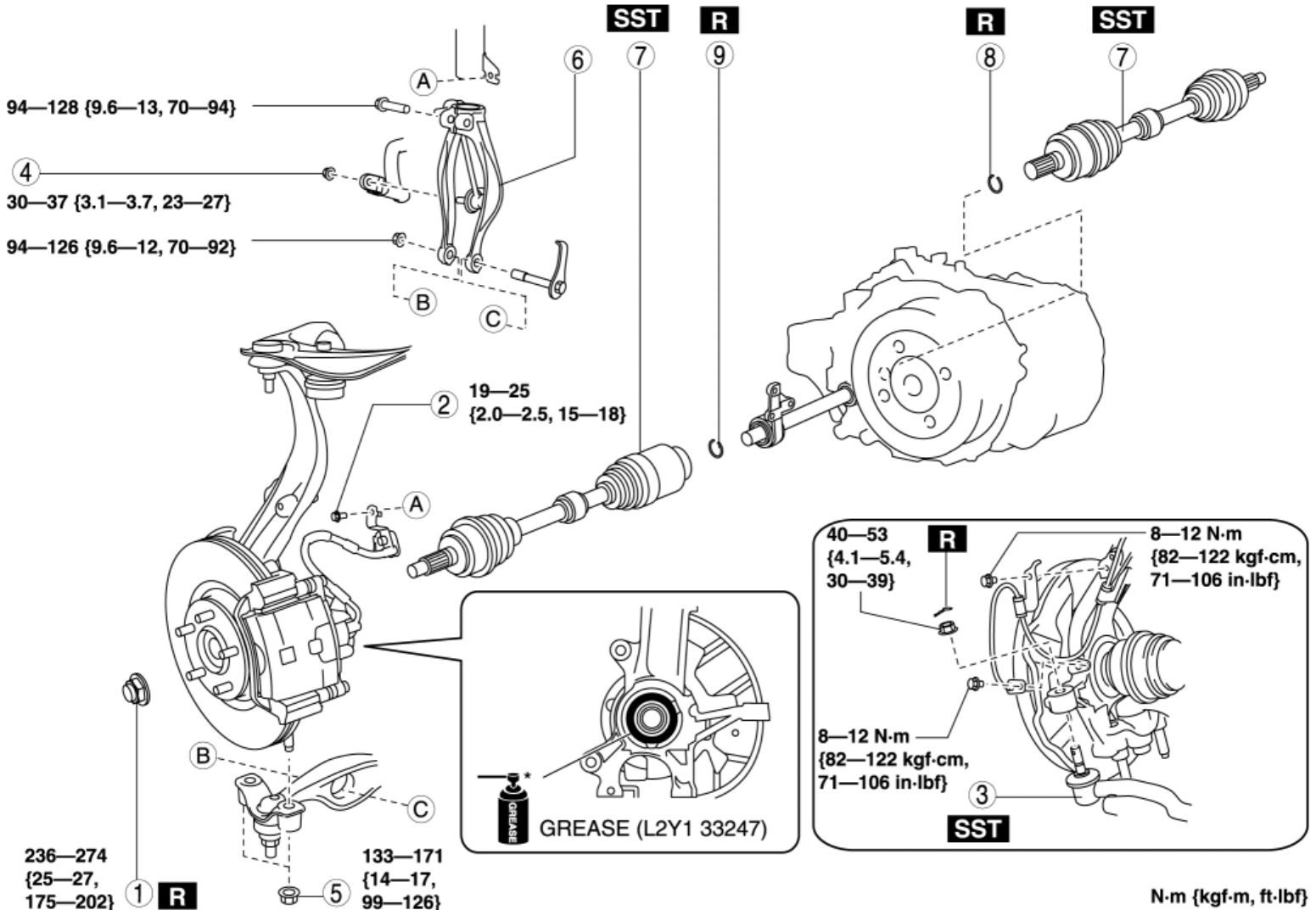
2012 - Mazda6 - DriveLine/ Axle

DRIVE SHAFT REMOVAL/ INSTALLATION

CAUTION:

- Performing the following procedures without first removing the ABS wheel-speed sensor may possibly cause an open circuit in the wiring harness if it is pulled by mistake. Before performing the following procedures, disconnect the ABS wheel-speed sensor connector (axle side) and fix the wiring harness to an appropriate place where it will not be pulled by mistake while servicing the vehicle.

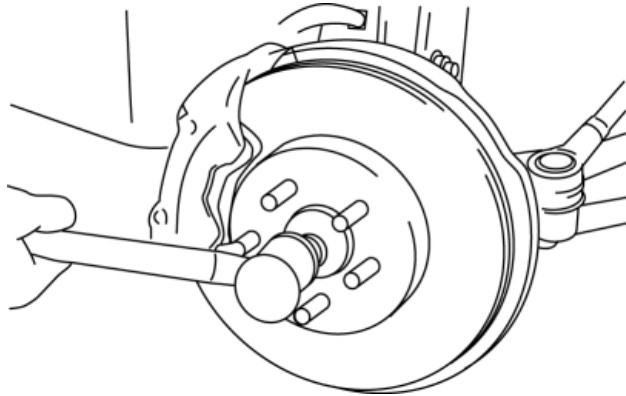
- Set the front mudguard out of the way. (See [FRONT MUDGUARD REMOVAL/ INSTALLATION](#).)
- Remove the splash shield.
- Drain the transaxle oil or ATF. (See [TRANSAXLE OIL REPLACEMENT \[G66M-R\]](#).) (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[FS5A-EL\]](#).) (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[AY6A-EL\]](#).)
- Remove in the order indicated in the table.
- Install in the reverse order of removal.
- Add the transaxle oil or ATF. (See [TRANSAXLE OIL REPLACEMENT \[G66M-R\]](#).) (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[FS5A-EL\]](#).) (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[AY6A-EL\]](#).)



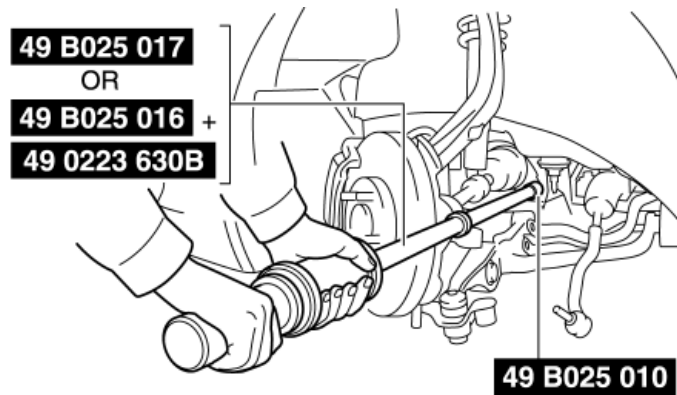
1	Locknut
2	Bolt (brake hose)
3	Tie-rod end ball joint (See FRONT CROSSMEMBER REMOVAL/ INSTALLATION [MZR 2.5].) (See FRONT CROSSMEMBER REMOVAL/ INSTALLATION [MZI 3.7 V6].)
4	Nut (front stabilizer control link lower side)
5	Nut (lower arm) (See WHEEL HUB, STEERING KNUCKLE REMOVAL/ INSTALLATION.)
6	Damper fork (See FRONT SHOCK ABSORBER AND COIL SPRING REMOVAL/ INSTALLATION.)
7	Drive shaft (See Drive Shaft Removal Note.) (See Drive Shaft Installation Note.)
8	Drive shaft clip (See Drive Shaft Clip Installation Note.)
9	Joint shaft clip (See JOINT SHAFT REMOVAL/ INSTALLATION.)

Drive Shaft Removal Note

1. Install a spare nut onto the drive shaft.
2. Tap the nut with a copper hammer and separate the drive shaft from the axle.

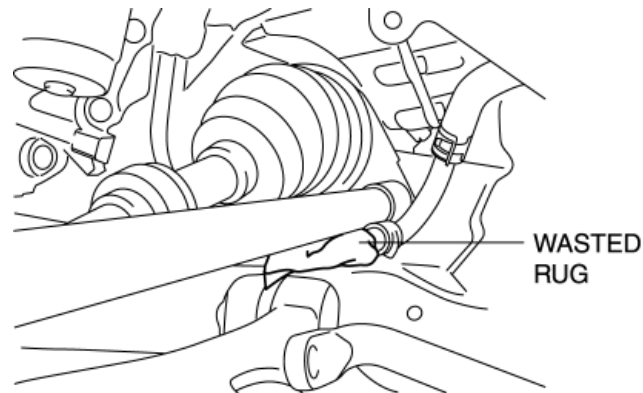


3. Separate the drive shaft from the wheel hub.
4. Separate the drive shaft (LH) from the transaxle by using the **SSTs**.

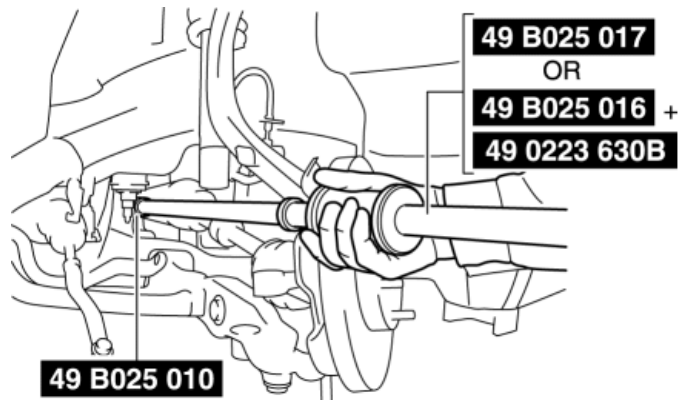


CAUTION:

- The sharp edges of the drive shaft can slice or puncture the oil seal. Be careful when removing the drive shaft from the transaxle.
- For MZR 2.5 engine model, use a wasted rug to protect the power steering oil pipe.



5. Disconnect the drive shaft (RH) from the joint shaft by using the **SSTs**.

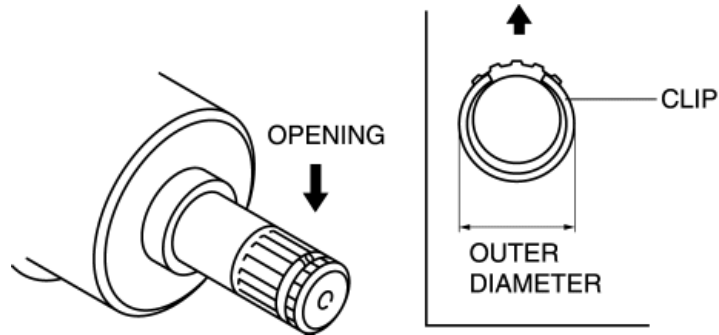


6. Install the SST to the transaxle after the drive shaft is removed.



Drive Shaft Clip Installation Note

1. Install a new drive shaft clip to the clip groove at the end of the drive shaft with the clip opening facing upward and the clip width within the specification.



Standard

- MZR 2.5: 31.2 mm {1.23 in} or less
- MZI 3.7 V6: 34.0 mm {1.34 in} or less

2. After installation, measure the outer diameter.

- If it exceeds the specification, repeat installation using a new clip.

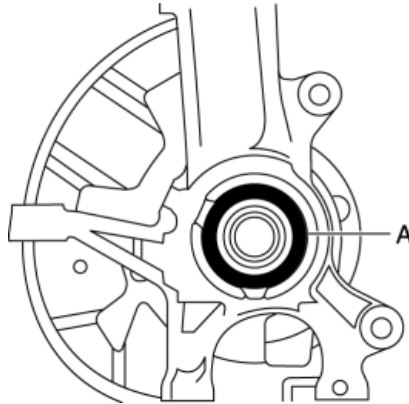
Drive Shaft Installation Note

Left side

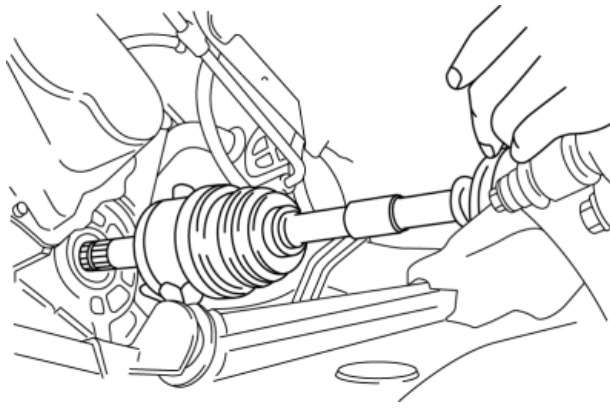
CAUTION:

- The sharp edges of the drive shaft can slice or puncture the oil seal. Be careful when installing the drive shaft from the transaxle.

1. Apply grease (L2Y1 33247) to the wheel bearing inner race and drive shaft contact surface (Area A in figure).



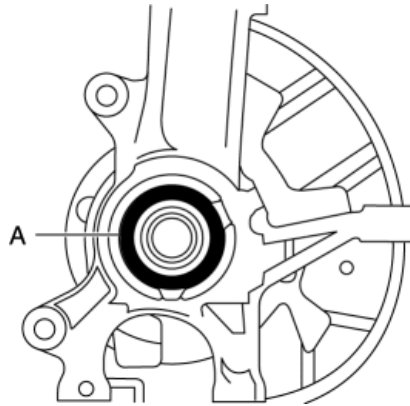
2. Insert the drive shaft into the wheel hub.
3. Apply transaxle oil or ATF to the oil seal lip.
4. Install the drive shaft to the transaxle.



5. After installation, pull the transaxle side outer ring forward to confirm that the drive shaft is securely held by the clip.

Right side

1. Install a new clip onto the joint shaft. (See [JOINT SHAFT REMOVAL/ INSTALLATION](#).)
2. Apply grease (L2Y1 33247) to the wheel bearing inner race and drive shaft contact surface (Area A in figure).



3. Insert the drive shaft to the wheel hub.
4. Insert the drive shaft to the joint shaft.
5. After installation, pull the transaxle side outer ring forward to confirm that the drive shaft is securely held by the clip.

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