

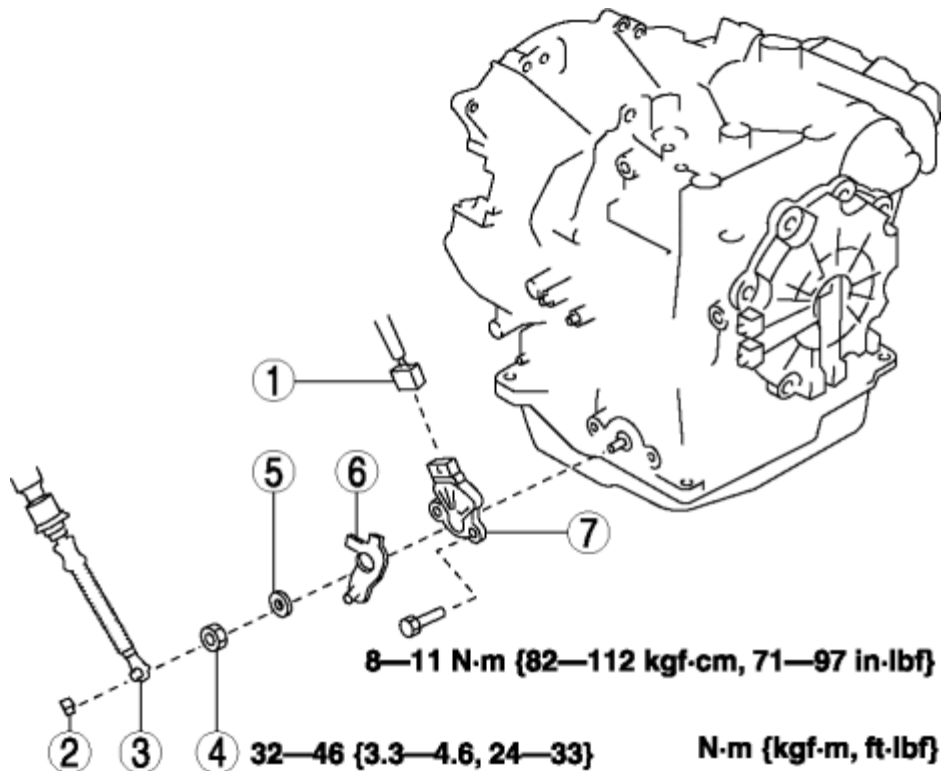
2012 - Mazda6 - Transmission/ Transaxle

TRANSAXLE RANGE (TR) SWITCH REMOVAL/ INSTALLATION [FS5A-EL]

CAUTION:

- Water or foreign objects entering the connector can cause a poor connection or corrosion. Be sure not to drop water or foreign objects on the connector when disconnecting it.

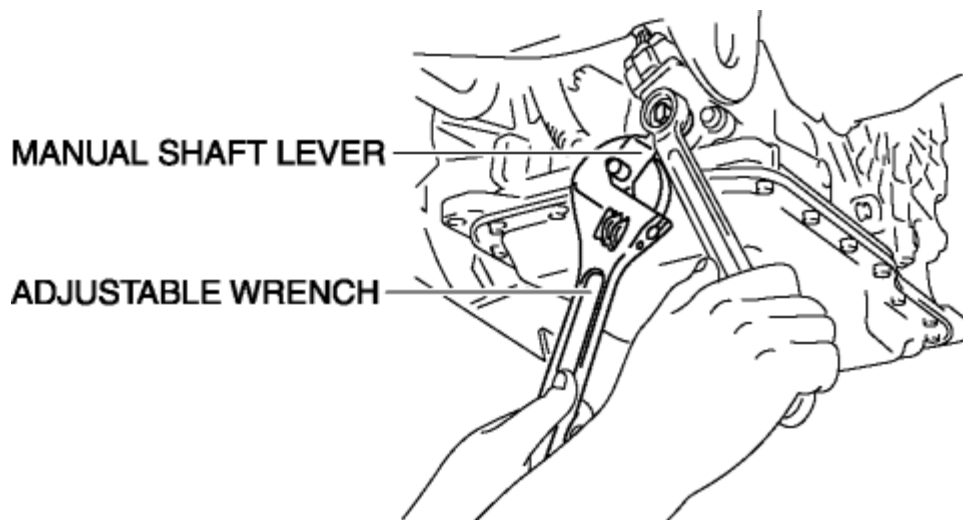
1. Engage the parking brake and use wheel chocks at the front and rear of the wheels.
2. Shift the selector lever to N position.
3. Disconnect the negative battery cable.
4. Remove the air cleaner component. (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)
5. Remove the aerodynamic under cover NO.2. (See [AERODYNAMIC UNDER COVER NO.2 REMOVAL/ INSTALLATION](#).)
6. Remove in the order indicated in the table.
7. Install in the reverse order of removal.
8. Inspect the TR switch. (See [TRANSAXLE RANGE \(TR\) SWITCH INSPECTION \[FS5A-EL\]](#).)



1	Connector
2	Clip
3	Selector cable
4	Manual shaft nut (See Manual Shaft Nut Removal Note.) (See Manual Shaft Nut Installation Note.)
5	Washer
6	Manual shaft lever
7	TR switch (See TR Switch Installation Note.)

Manual Shaft Nut Removal Note

1. Set the adjustable wrench as shown to hold the manual shaft lever and loosen the manual shaft nut.

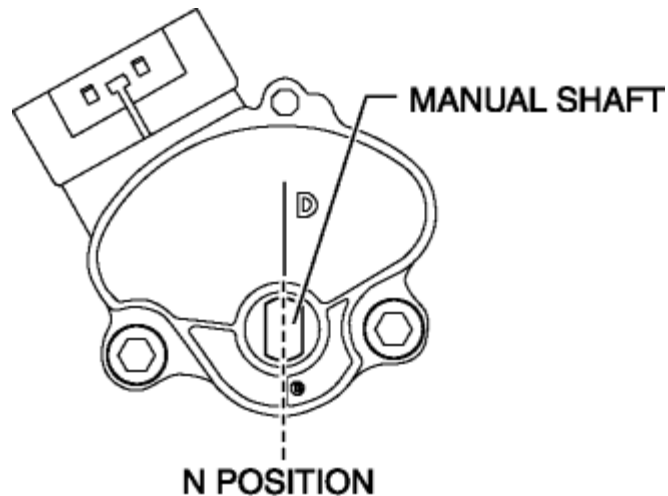


CAUTION:

- Do not use an impact wrench. Hold the manual shaft lever when removing the manual shaft nut, or the transaxle may be damaged.
- Do not apply torque to the manual shaft as bending or breakage of the spring pin installed to the manual shaft could damage the TR switch and cause a selector lever malfunction.

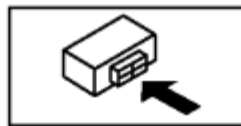
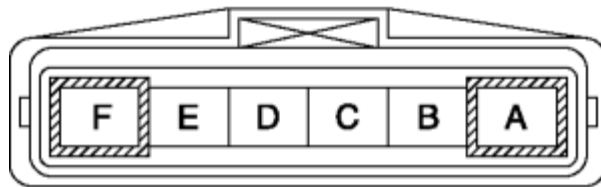
TR Switch Installation Note

1. Verify that the manual shaft is aligned with N position.



2. Adjust the TR switch between terminals B and C until the resistance becomes **713—787 ohms**.

TR SWITCH



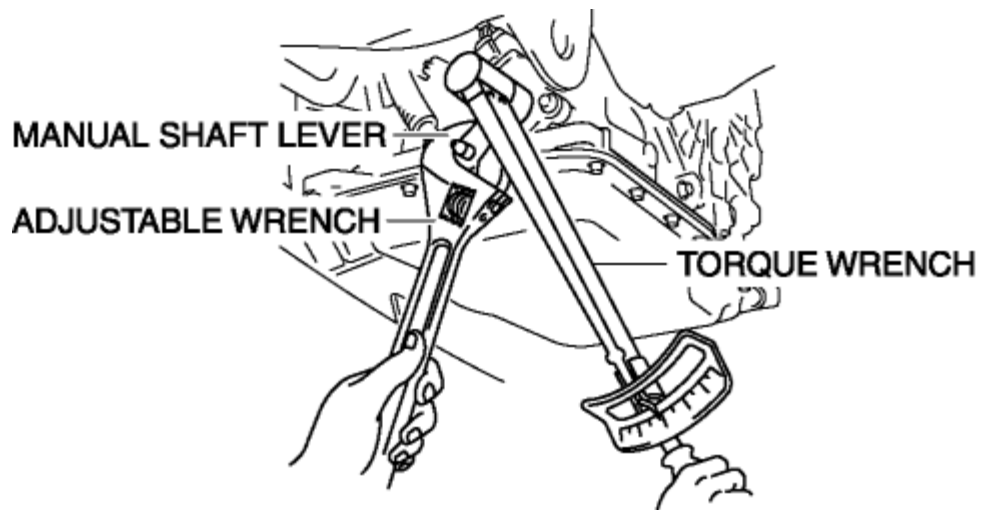
3. Tighten the TR switch installation bolts.

Tightening torque

- 8—11 N·m {82—112 kgf·cm, 71—97 in·lbf}

Manual Shaft Nut Installation Note

1. Set the adjustable wrench as shown to hold the manual shaft lever and tighten the manual shaft nut.



CAUTION:

- Do not use an impact wrench. Hold the manual shaft lever when installing the manual shaft nut, or the transaxle may be damaged
- Do not apply torque to the manual shaft as bending or breakage of the spring pin installed to the manual shaft could damage the TR switch and cause a selector lever malfunction.

Tightening torque

- 32—46 N·m {3.3—4.6 kgf·m, 24—33 ft·lbf}

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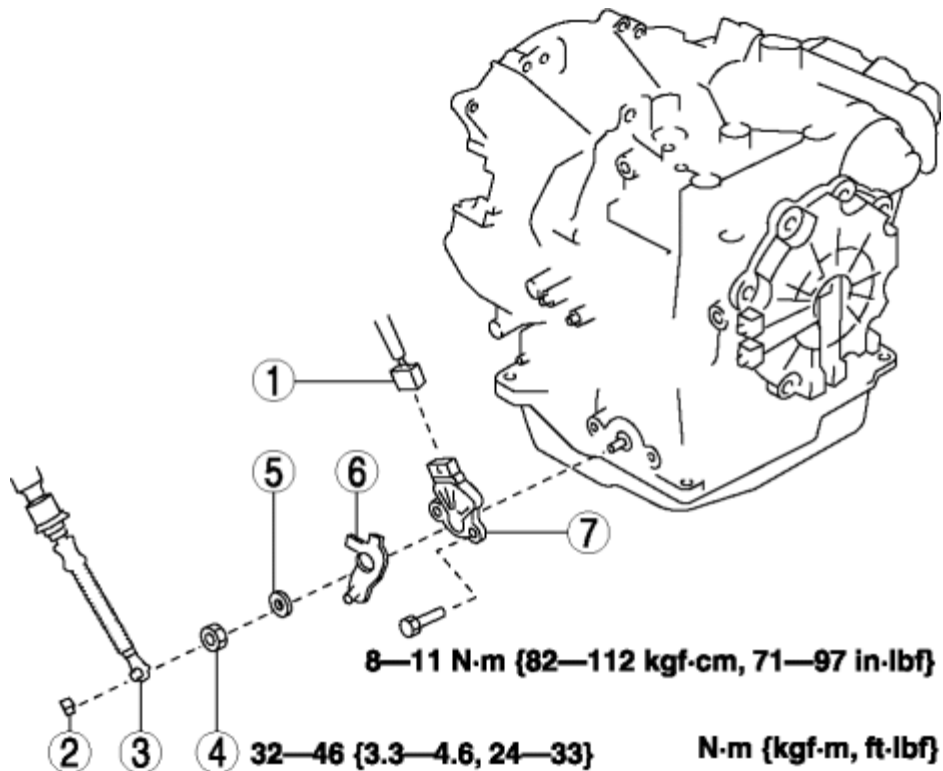
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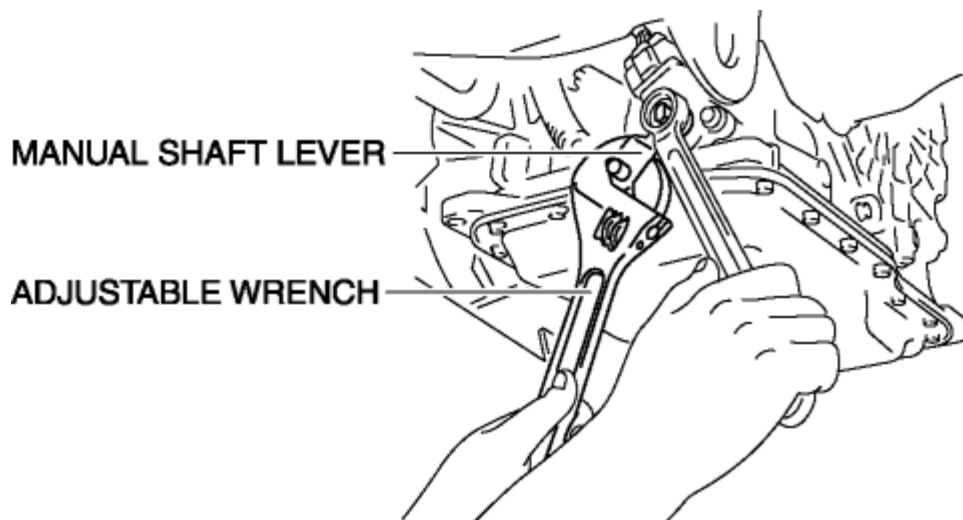
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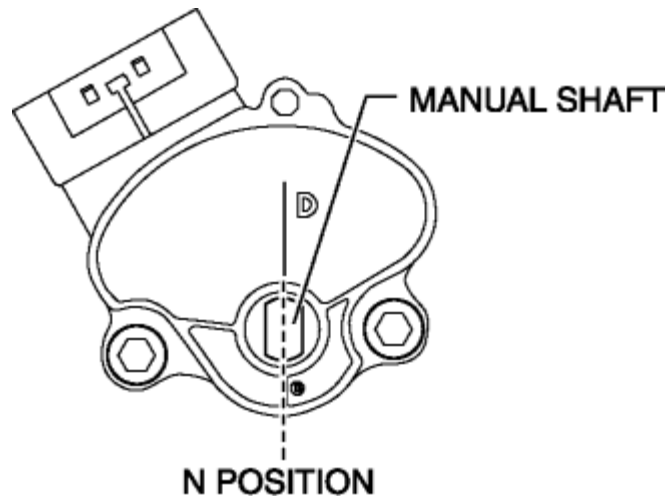


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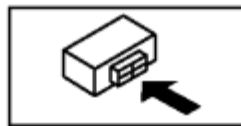
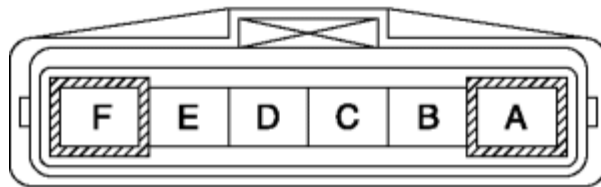
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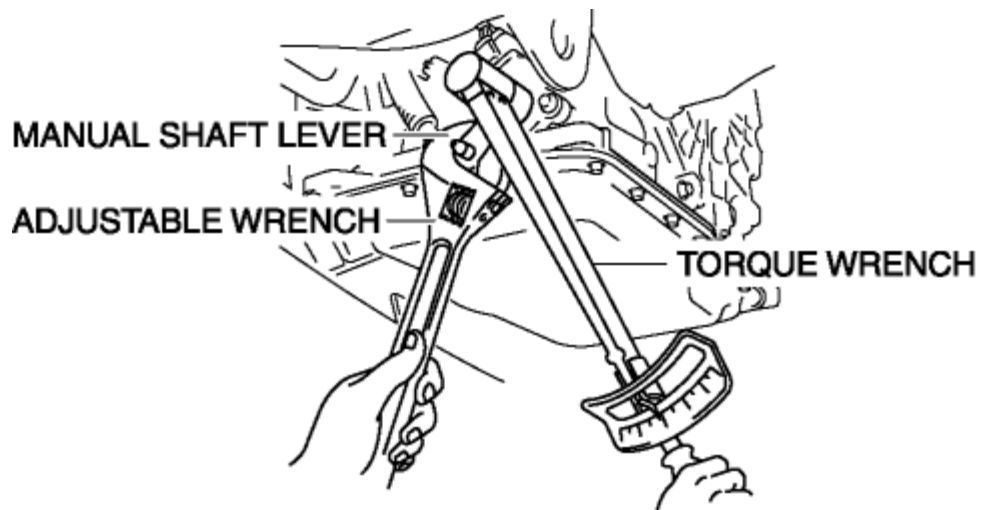
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