

2012 - Mazda6 - Transmission/ Transaxle

INPUT/ TURBINE SPEED SENSOR REMOVAL/ INSTALLATION [AY6A-EL]

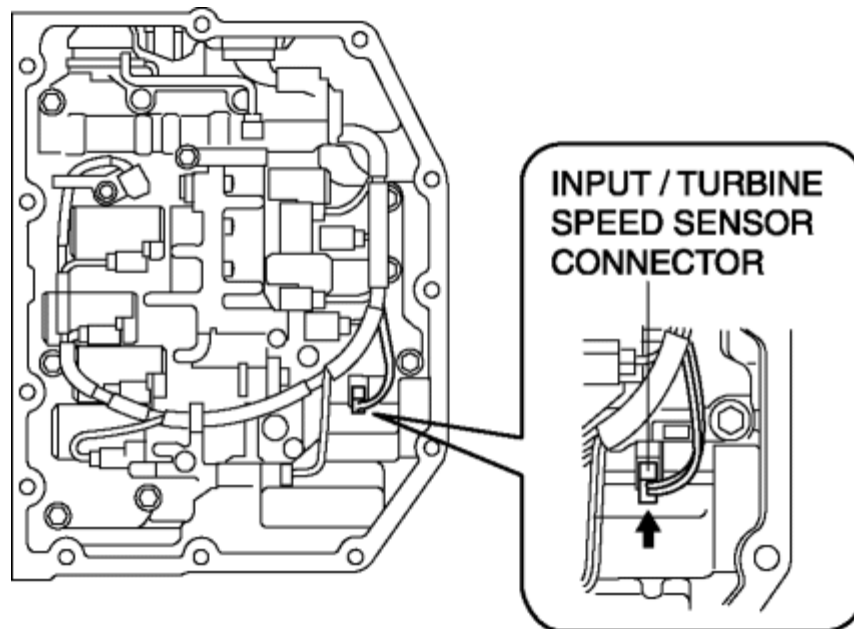
WARNING:

- A hot transaxle and ATF can cause severe burns. Turn off the engine and wait until they are cool.
- Using compressed air can cause dirt and other particles to fly out, causing injury to the eyes. Wear protective eyeglasses whenever using compressed air.

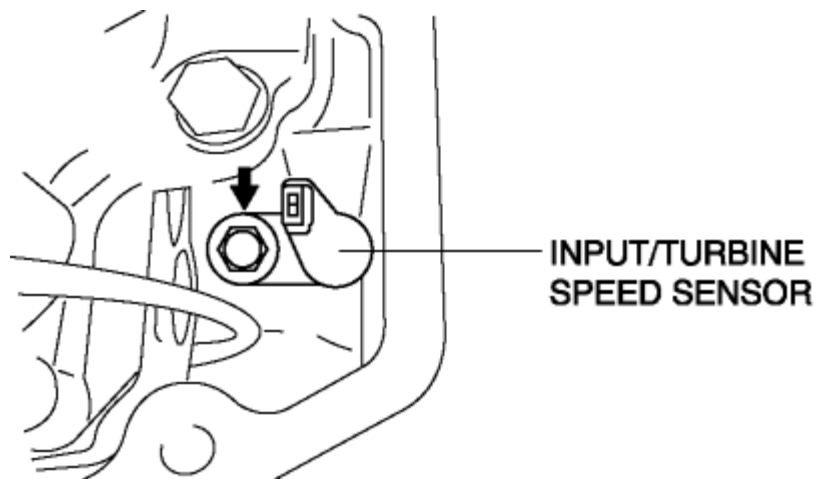
CAUTION:

- If foreign materials are stuck to the sensor, disturbance by magnetic flux can cause sensor output to be abnormal and thereby negatively affect control. Make sure that foreign materials such as iron filings are not stuck to the sensor during installation.
- 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. Disconnect the negative battery cable.
2. Remove the fresh-air duct and air cleaner component as a single unit. (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
3. Remove the air cleaner bracket. (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
4. Clean the transaxle exterior throughout with a steam cleaner or cleaning solvents.
5. Drain the ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[AY6A-EL\]](#) .)
6. Disconnect the oil hose from the oil pipe component (transaxle side). (See [OIL COOLER REMOVAL/ INSTALLATION \[AY6A-EL\]](#) .)
7. Remove the oil pipe component (transaxle side). (See [OIL COOLER REMOVAL/ INSTALLATION \[AY6A-EL\]](#) .)
8. Remove the control valve body cover. (See [CONTROL VALVE BODY COVER REPLACEMENT \[AY6A-EL\]](#) .)
9. Disconnect the input/turbine speed sensor connector.



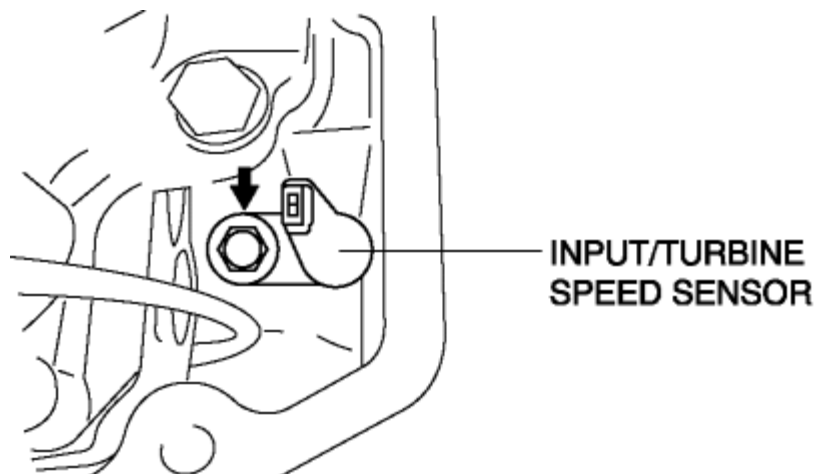
10. Remove the input/turbine speed sensor.



CAUTION:

- Do not damage the input/turbine speed sensor.

11. Install the input/turbine speed sensor.



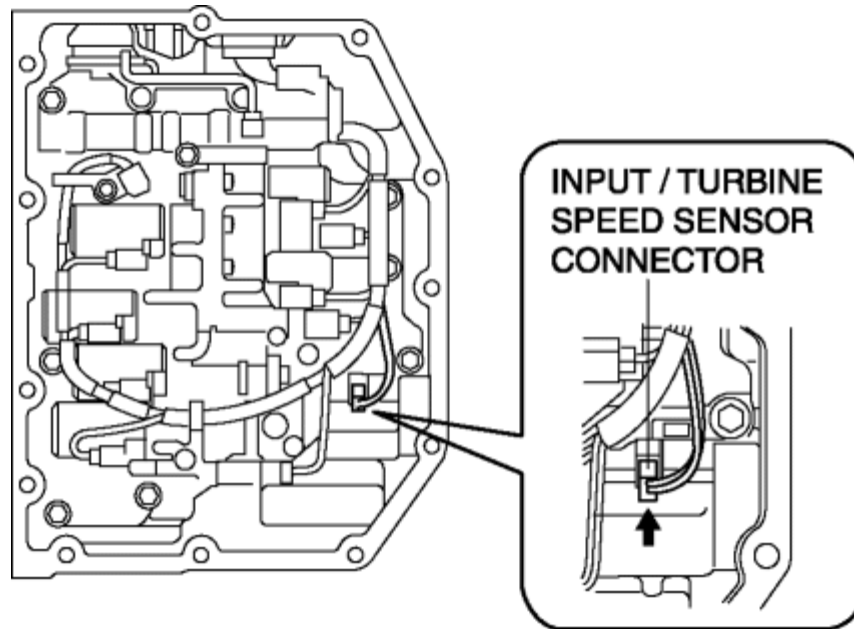
CAUTION:

- Do not damage the input/turbine speed sensor.

Tightening torque

- 3.9—6.9 N·m {40—70 kgf·cm, 35—61 in·lbf}

12. Connect the input/turbine speed sensor connector.



13. Install the new control valve body cover. (See [CONTROL VALVE BODY COVER REPLACEMENT \[AY6A-EL\]](#).)

14. Install the oil pipe component (transaxle side). (See [OIL COOLER REMOVAL/ INSTALLATION \[AY6A-EL\]](#).)

15. Connect the oil hose to the oil pipe component (transaxle side). (See [OIL COOLER REMOVAL/ INSTALLATION \[AY6A-EL\]](#).)

16. Install the air cleaner bracket. (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)

17. Add ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) LEVEL ADJUSTMENT \[AY6A-EL\]](#).)

18. Install the fresh-air duct and air cleaner component as a single unit. (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#).)

19. Connect the negative battery cable.

20. Adjust the ATF level. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) LEVEL ADJUSTMENT \[AY6A-EL\]](#).)

21. Perform the "Mechanical System Test". (See [MECHANICAL SYSTEM TEST \[AY6A-EL\]](#).)

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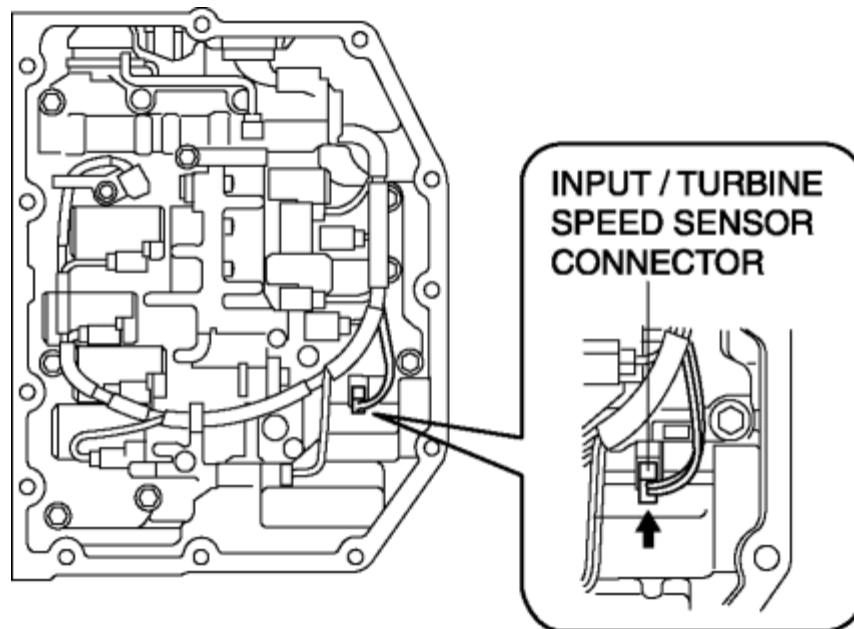
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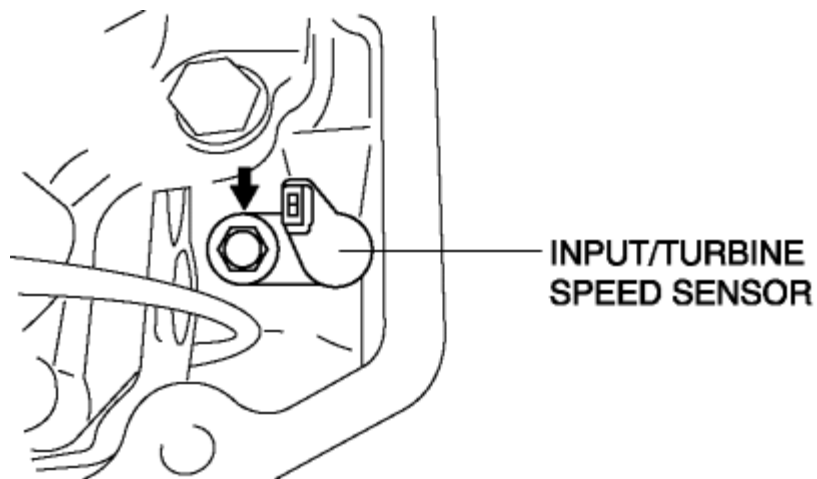
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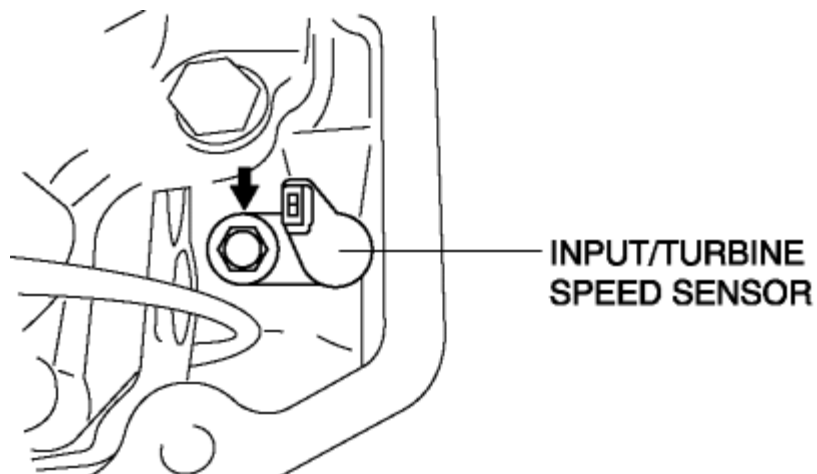
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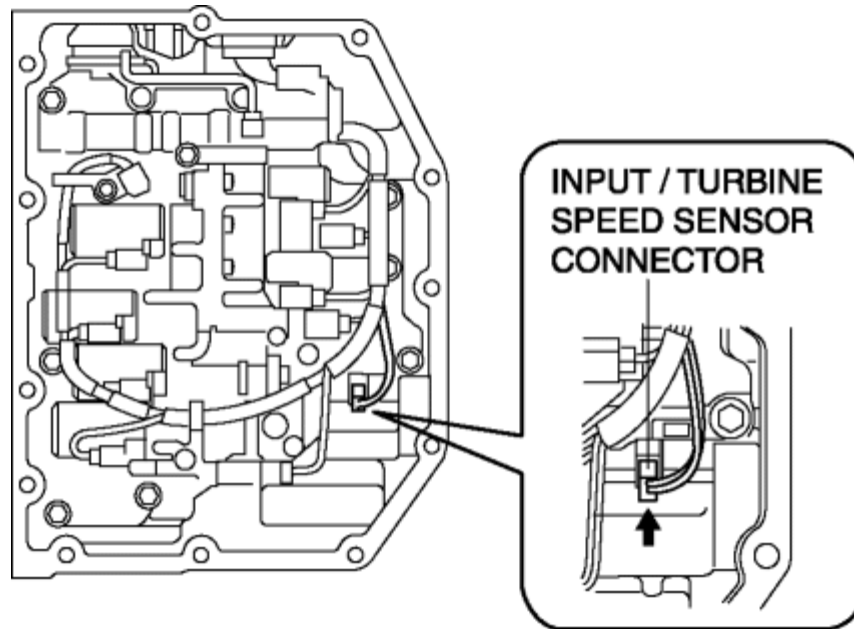
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