

2012 - Mazda6 - Brakes

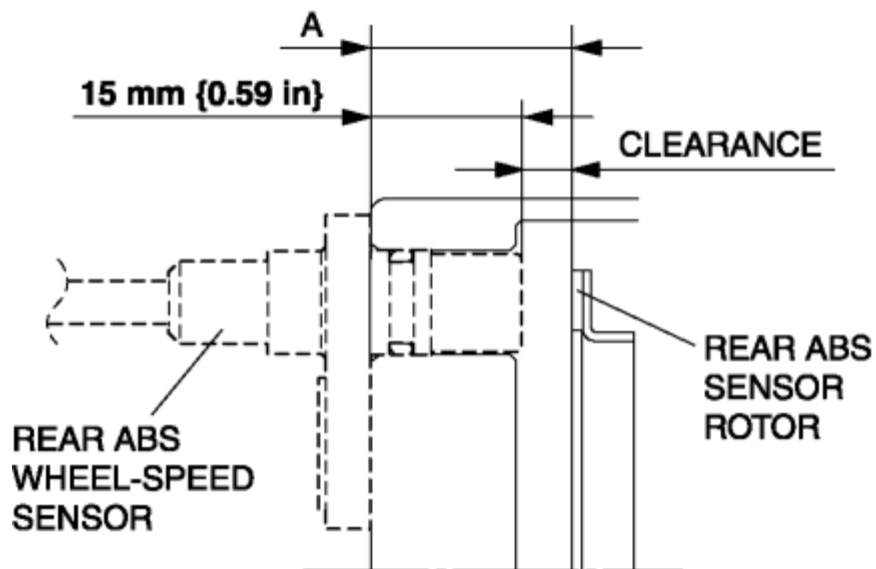
REAR ABS WHEEL-SPEED SENSOR INSPECTION

Installation Visual Inspection

1. Inspect the following items:
 - If there is any malfunction, replace the applicable part.
 - a. Is there looseness or play in the sensor installation?
 - b. Has the sensor been deformed?
 - c. Is there deformation of or damage to the ABS sensor rotor?

Clearance inspection

1. Remove the rear ABS wheel-speed sensor.
2. Measure the distance between the rear ABS wheel-speed sensor installation surface and the rear ABS sensor rotor. This is dimension A.



3. Calculate the clearance between the rear ABS wheel-speed sensor and the ABS sensor rotor using the following formula:
 - Clearance (mm {in}) = A - 15 mm {0.59 in}
4. Verify that the clearance between the ABS sensor rotor and the rear ABS wheel-speed sensor is as indicated below.
 - If there is any malfunction, verify the installation condition and replace if

necessary.

Clearance

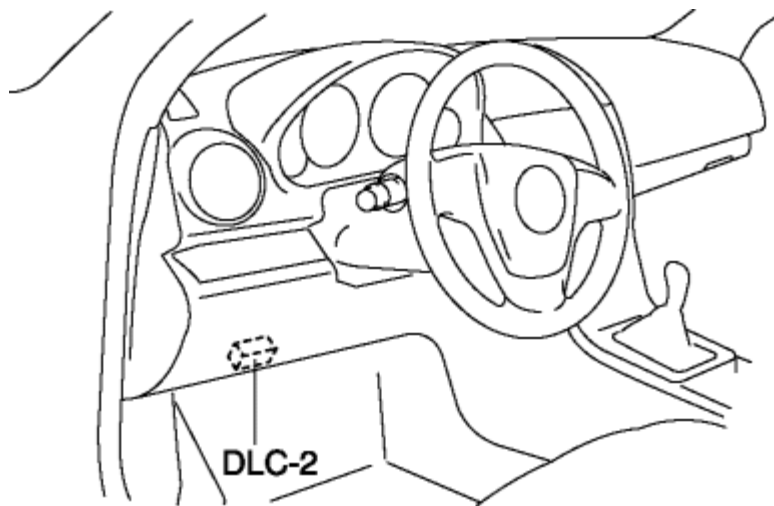
- 0.3—1.1 mm {0.02—0.04 in}

Sensor Output Value Inspection

CAUTION:

- Performing the resistance inspection using a tester may cause damage to the ABS wheel-speed sensor internal circuit. Be sure to use the M-MDS to inspect the ABS wheel-speed sensor.

1. Switch the ignition to off.
2. Connect the M-MDS (IDS) to the DLC-2.



3. Select the following PIDs using the M-MDS:
 - WSPD_LR
(LR wheel-speed sensor)
 - WSPD_RR
(RR wheel-speed sensor)
4. Start the engine and drive the vehicle.
5. Verify that the display of the M-MDS shows the same value as the speedometer.
 - If there is any malfunction, replace the ABS wheel-speed sensor.

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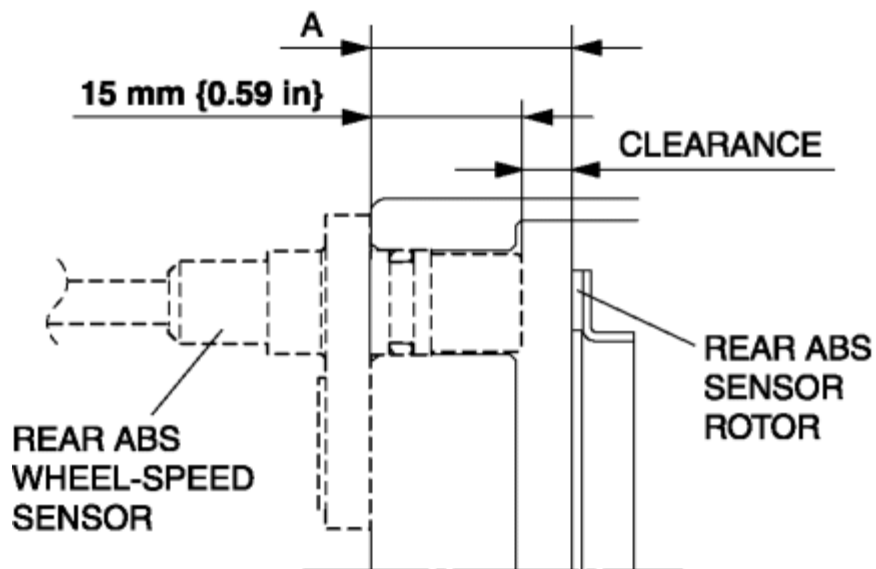
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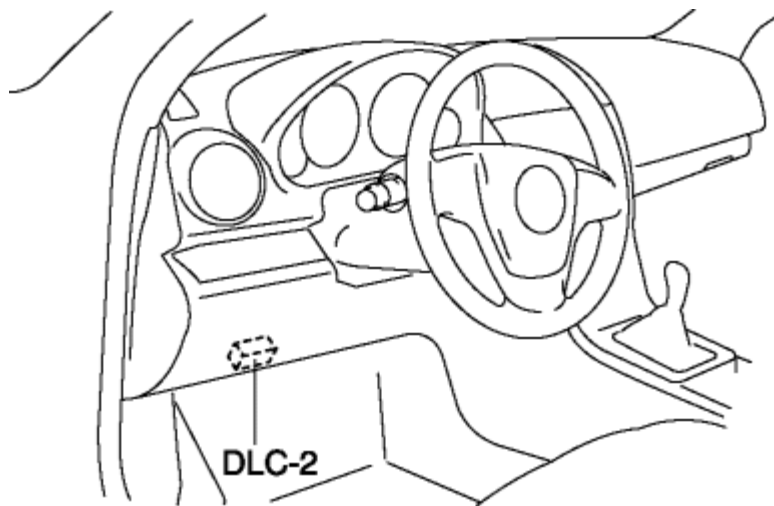
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