

LASER SENSOR INSPECTION

id041500802700

Simple Inspection

Warning

- To prevent eye injury, do not peer directly into the laser sensor using optical instruments with a magnification function such as magnifying glasses or microscopic and objective lenses within a distance of 100 mm {3.94 in} from the sensor.
- Because a simple reflector held with a hand is required, if heavy material such as a steel plate is used, it could be dropped resulting in an accident. Therefore, use light materials such as a plastic plate or cardboard when making the reflector.

Caution

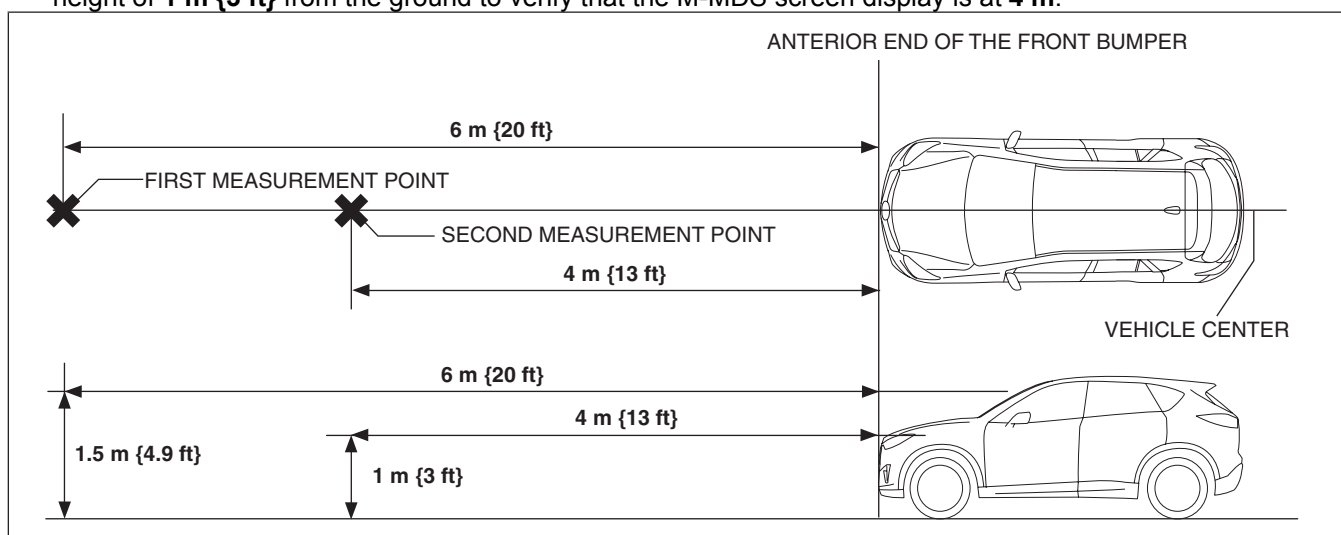
- Perform the work in an area where 6 m or more of space from the front of the vehicle is available.
- Remove cargo from the cabin and trunk compartment so that the vehicle is in an unloaded condition.
- Adjust the air pressure of each tire to the specified value.

1. To make the simple reflector, overlap three pieces of commercially available aluminum foil and adhere them to a plastic plate or piece of cardboard with a length of 50 cm or more on one side.

Note

- If two or fewer pieces of aluminum foil are used, near-infrared reflection may weaken and the M-MDS will be unable to measure the correct distance.
- A reflective material or material which facilitates near-infrared light reflection can be substituted for the aluminum foil.

2. Park the vehicle on level ground.
3. Connect the M-MDS to the DLC-2.
4. After vehicle identification, the following can be selected from the IDS initialization screen.
 - (1) [Data logger]
 - (2) [Module]
 - (3) [SCBS]
5. Select "DIST_BMP_TGT" from PID/DATA Monitor Table.
6. **Stand at the position 6 m {20 ft} from the front end of the front bumper and hold the simple reflector made in Step 1 at a height of 1.5 m {4.9 ft} from the ground to verify that the M-MDS screen display is at 6 m.**
7. Then, move to the position 4 m {13 ft} from the front end of the front bumper and hold the simple reflector at a height of 1 m {3 ft} from the ground to verify that the M-MDS screen display is at 4 m.



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Note

- The brand emblem of the front bumper indicates the center position at the rear of the vehicle.
- The "DIST_BMP_TGT" monitoring value is displayed in 1 m {3 ft} increments.

8. If there is a malfunction, verify that there is no damage with the laser sensor tab and in the laser sensor installation area of the windshield. (See LASER SENSOR REMOVAL/INSTALLATION.)
 - If there is a malfunction with the laser sensor tab, replace the laser sensor. (See LASER SENSOR REMOVAL/INSTALLATION.)

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- If there is a malfunction in the laser sensor installation area of the windshield, replace the windshield. (See WINDSHIELD REMOVAL.) (See WINDSHIELD INSTALLATION.)