

ON-BOARD DIAGNOSTIC TEST MODE [FW6A-EL, FW6AX-EL]

id050227950000

Foreword

- The on-board diagnostic is a mode for inspecting if there is a malfunction in the automatic transaxle based on the sensor signal obtained at that time by forcibly operating each solenoid and selecting each gear.
- If a problem with the automatic transaxle is considered, perform the on-board diagnostic.
- When DTCs are displayed by the on-board diagnosis test, perform the instructions in the applicable DTC troubleshooting.

Warning

- **The on-board diagnosis test forcibly changes gears within the driving shift range while the engine is running. Before implementing the on-board diagnosis test, securely apply the parking brake and set the wheel blocks for both the front and rear wheels. Otherwise, the vehicle will move which could cause injury or property damage.**
- **Perform the DTC inspection using the M-MDS before performing on-board diagnostic because the DTC is cleared by performing the on-board diagnostic.**

Note

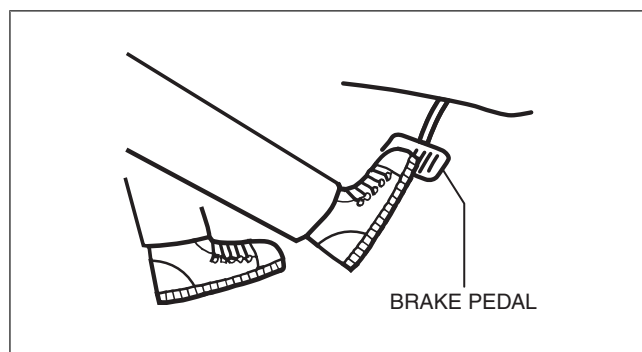
- The time required to perform the diagnostic is **2 to 3 min.**
- If unsafe actions such as shift operation and brake pedal release are detected before the shift position indicator light flashes, the on-board diagnostic test mode is canceled and the shift position indicator light flashes 5 times.

1. Apply the parking brake firmly, and set the wheel blocks for both the front and rear wheels.
2. Inspect the ATF level. (See AUTOMATIC TRANSAXLE FLUID (ATF) INSPECTION [FW6A-EL, FW6AX-EL].)
3. Connect the M-MDS to the DLC-2.
4. Perform vehicle identification using the M-MDS.
5. Start the engine.
6. After the vehicle is identified, select the following items from the initialization screen of the M-MDS.
 - (1) Select "Data Logger".
 - (2) Select "Modules".
 - (3) Select "TCM".
7. While checking the PID TFT (ATF temperature), warm-up the engine completely and allow the ATF temperature to reach **55 °C {131 °F} or more.**
8. Select the following items from the initialization screen of the M-MDS.
 - (1) Select "Self Test".
 - (2) Select "Modules".
 - (3) Select "TCM".
 - (4) Select "Retrieve CMDTCs".
9. Perform the following steps (1) to (5) with the brake pedal depressed.

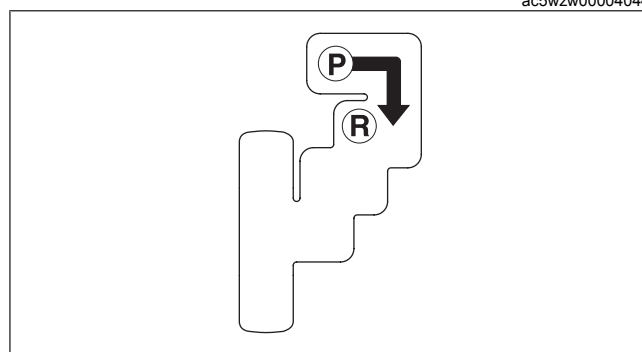
Note

- If the on-board diagnosis test is shut down (Shift position indicator light flashes 5 times), resume the procedure from Step 1.

- (1) Shift the selector lever to the R position.

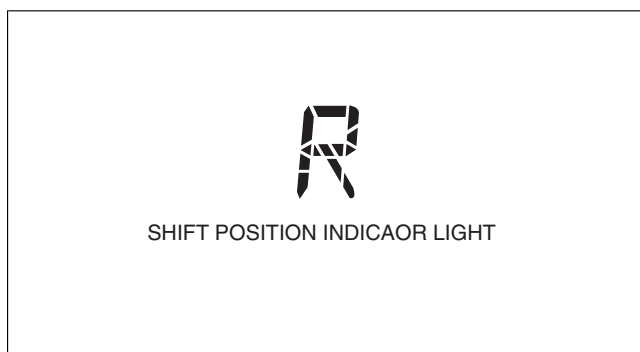


ac5wzw00004044



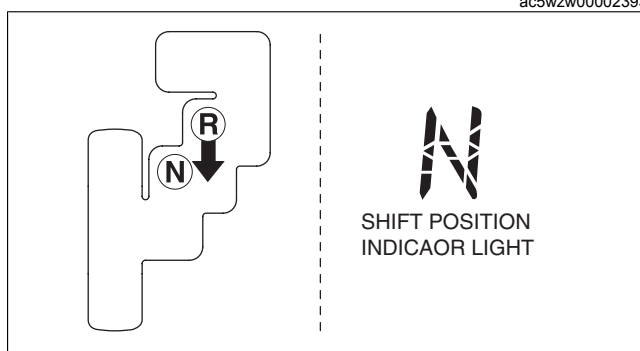
am3uuw00008753

- (2) Clear DTCs using the M-MDS and verify that the shift position indicator light flashes 2 times. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FW6A-EL, FW6AX-EL].)



ac5wzw00002393

- (3) Within **5 s** after the shift position indicator light flashes 2 times, shift the selector lever to the N position and verify that the shift position indicator light flashes 2 times.

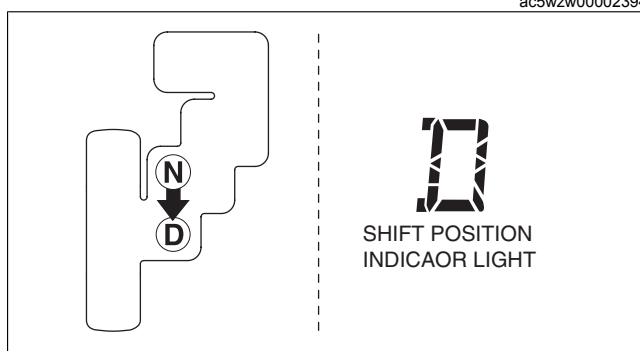


ac5wzw00002394

- (4) Within **5 s** after the shift position indicator light flashes 2 times, shift the selector lever to the D position and verify that the shift position indicator light flashes 3 times.

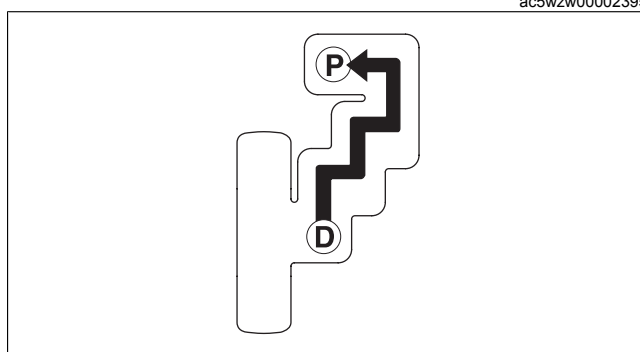
Note

- **Approx. 30 s** is required until the shift position indicator light flashes. In addition, shift shock occurs a few times during stand-by.



ac5wzw00002395

- (5) After the shift position indicator light flashes 3 times, shift the selector lever to the P position.
10. Release the brake pedal.
11. Perform the DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FW6A-EL, FW6AX-EL].)
- If any DTCs are displayed, perform troubleshooting according to the corresponding DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FW6A-EL, FW6AX-EL].)



am3uuw00008757