

## 10. Rear Differential Inspection Mode

### A: GENERAL DESCRIPTION

**CAUTION:**

**Be sure to perform rear differential inspection mode.**

- Follow the messages displayed on the Subaru Select Monitor when working.
- “Rear differential inspection mode” using the Subaru Select Monitor is available only for the CVT model.
- Perform rear differential inspection mode when the following work has been performed.

Transmission assembly replacement/Replacement of rear differential/Replacement of front differential hypoid gear set/Replacement of rear differential hypoid gear set

### B: PROCEDURE

**CAUTION:**

**Do not turn the power of the Subaru Select Monitor OFF during work, and do not disconnect the data link connector.**

- 1) Shift the select lever to “P” range.
- 2) Apply the parking brake.
- 3) Lift up the vehicle.

**WARNING:**

**Lift up the vehicle until the tire bottom is 30 cm or more above the ground.**

- 4) Connect the Subaru Select Monitor to data link connector.
- 5) Turn the ignition switch to ON.
- 6) Select {AT related learning & inspecting mode} in the «Transmission Diagnosis» screen of the Subaru Select Monitor.
- 7) Select {Rear differential inspection mode} in the «AT related learning & inspecting mode» display screen of the Subaru Select Monitor.
- 8) Follow the messages displayed on the Subaru Select Monitor screen when working.
- 9) The results of the rear differential inspection mode are displayed on the Subaru Select Monitor screen.
  - When ended normally: “The rear differential has been replaced normally.”
  - When ended abnormally: “A rear differential abnormality has been detected. Reinspect the items at the time of rear differential installation.”
  - When interrupted: “Inspection is stopped. Restart this inspection mode from the beginning.”

## Rear Differential Inspection Mode

### DIFFERENTIALS

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10) After the message “Inspection has been completed. Set the ignition switch to OFF.” appears, the rear differential inspection mode completes.

#### NOTE:

- For detailed operation procedures, refer to “PC application help for Subaru Select Monitor”.
- If the rear differential inspection mode does not end normally, repeat the mode until it ends normally.
- When the inspection mode does not end normally, the AWD warning light will start blinking at 2 Hz.
- When the inspection mode ends abnormally, the front differential and rear differential may be different from the specifications for the vehicle.
- When the inspection mode is interrupted, the following reasons are possible.

Message	Main reasons for abnormal termination
<ul style="list-style-type: none"><li>• “Inspection is stopped.”</li><li>• “Inspection is stopped. Restart this inspection mode from the beginning.”</li></ul>	<ul style="list-style-type: none"><li>• TCM has detected a failure.</li><li>• VDC has a failure.</li><li>• Brake is applied after start during automatic running.</li><li>• Too delayed operation to the instructions displayed on the Subaru Select Monitor.</li></ul>
“TCM incompatible. Rear differential inspection mode is stopped.”	The model does not support the rear differential inspection mode.
The TCM has detected a fault. Inspect following the manual.	TCM has detected a failure.

11) Perform “Function Check Sequence” for VDC. <Ref. to VDC(diag)-18, FREEZE FRAME DATA, OPERATION, Subaru Select Monitor.> <Ref. to VDC-18, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>