

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 electronic 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. (For model with push button start, press the push button ignition switch twice without depressing brake pedal.)
- 6) Select {Work Support} in the «Transmission Control System» screen of Subaru Select Monitor.
- 7) Select {Maintenance mode} in the «Work Support» screen of Subaru Select Monitor.
- 8) Select {Rear differential inspection mode} in the «Maintenance mode» screen of the Subaru Select Monitor.
- 9) Follow the messages displayed on the Subaru Select Monitor screen when working.
- 10) 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.”
- 11) After the message “Inspection has been completed. Set the ignition switch to OFF.” appears, the rear differential inspection mode completes.

NOTE:

- When the rear differential inspection mode is completed properly, the following warning lights may illuminate. But this is not a malfunction. If warning light illuminates, clear the memory.
VDC/ABS, engine, power steering, EyeSight
- 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 rear differential inspection mode ends abnormally, the front differential and rear differential may be different from the specifications for the vehicle.
- When the rear differential inspection mode is interrupted, the following reasons are possible.

Message	Main reasons for abnormal termination
<ul style="list-style-type: none"> • “Inspection is stopped.” • “Inspection is stopped. Restart this inspection mode from the beginning.” 	<ul style="list-style-type: none"> • TCM has detected a failure. • VDC has a failure. • Brake is applied after start during automatic running. • Too delayed operation to the instructions displayed on the Subaru Select Monitor.
“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.

- 12) Perform “Function Check Sequence” for VDC. <Ref. to VDC(diag)-17, FUNCTION CHECK, OPERATION, Subaru Select Monitor.> <Ref. to VDC-20, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>