

Basic Diagnostic Procedure

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

1. Basic Diagnostic Procedure

A: PROCEDURE

CAUTION:

- When performing the entire diagnosis or cruise control diagnosis, first start the engine and wait until initial illumination of the ABS/VDC warning light completes. (If you start the diagnostics before performing the above procedures, the cancel code “43” is recorded and CRUISE indicator does not illuminate even though the CRUISE switch is pressed.)
- When performing diagnosis, observe the legal speed limit on the road.
- The cancel code will also appear when the cruise control is cancelled by the driver’s operation. Do not confuse them.
- Be sure to get an assistant to support the diagnosis while driving, and have him/her operate the select monitor.

| Step | Check | Yes | No |
|--|--|---|--|
| 1 CHECK HYBRID FAIL LAMP. Make sure the hybrid fail lamp illuminates. | Does the hybrid fail lamp illuminate? | Go to step 6. | Go to step 2. |
| 2 CHECK MALFUNCTION INDICATOR LIGHT. Make sure the malfunction indicator light illuminates. | Does the malfunction indicator light illuminate? | Go to step 6. | Go to step 3. |
| 3 CHECK CRUISE INDICATOR LIGHT. Make sure the cruise indicator light blinks. | Does the cruise indicator light blink? | Go to step 8. | Go to step 4. |
| 4 CHECK CRUISE SWITCH OPERATION. Check the CRUISE switch operation. (Check the illumination of the CRUISE indicator.) | Is the CRUISE switch turned on? (Does the CRUISE indicator illuminate?) | Go to step 5. | Go to phenomenon 1. <Ref. to CC(HEV)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.> |
| 5 CHECK CRUISE CONTROL SET OPERATION. Check the cruise control setting operation. | Can the cruise control be set while driving at 40 km/h (25 MPH) or more? | Go to step 9. | Go to step 8. |
| 6 CHECK DTC. Read all DTCs using the Subaru Select Monitor. | Is engine, HEV or VDC related DTC displayed? | Record the DTC. Go to step 7. | Go to phenomenon 2. <Ref. to CC(HEV)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.> |
| 7 CHECK FREEZE FRAME DATA. Using the Subaru Select Monitor, check the Freeze Frame Data or Information in Trouble State. | Was the Freeze Frame Data or Information in Trouble State recorded? | Record the data. Perform the diagnosis according to the engine, HEV, or VDC related DTC. | Perform the diagnosis according to the engine, HEV, or VDC related DTC. |

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|--|---|--|--|
| 8 CHECK CANCEL CODE. Using the Subaru Select Monitor, read the cancel codes of the hybrid powertrain control module. <Ref. to CC(HEV)(diag)-9, Read Cancel Code.> NOTE: <ul style="list-style-type: none"> Do not turn the ignition switch to OFF after the cruise control is deactivated. Do not operate the cruise control command switch after the cruise control is deactivated. If the above is performed, the cancel code will be cleared. | Is it possible to read the cancel codes? | Perform the diagnosis according to the cancel code. <Ref. to CC(HEV)(diag)-13, LIST, List of Cancel Code.> | Go to step 9. |
| 9 CHECK SET INDICATOR. Check the illumination of the SET indicator. | Does the SET indicator illuminate? | Go to step 10. | Go to phenomenon 3. <Ref. to CC(HEV)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.> |
| 10 CHECK VEHICLE SPEED IS HELD WITHIN SET SPEED. Make sure the vehicle speed is held within set speed. | Is the vehicle speed kept within setting speed ± 3 km/h (± 2 MPH)? (Make sure that on a level road.) | Go to step 11. | Go to phenomenon 4. <Ref. to CC(HEV)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.> |
| 11 CHECK RES/+ OPERATION. Check the RES/+ switch operation. | Does the vehicle speed increase or return to set speed after RES/+ switch has been pressed? | Go to step 12. | Go to phenomenon 5. <Ref. to CC(HEV)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.> |
| 12 CHECK SET/- OPERATION. Check the SET/- switch operation. | Does the vehicle speed decrease after SET/- switch has been pressed? | Go to step 13. | Go to phenomenon 6. <Ref. to CC(HEV)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.> |
| 13 CANCEL OPERATION CHECK. Check the CANCEL switch operation. | Is the cruise control released after CANCEL switch has been pressed? | Go to step 14. | Go to phenomenon 7. <Ref. to CC(HEV)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.> |

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|--|--|-----------------------|--|
| 14 CHECK CRUISE CONTROL RELEASE OPERATION. Check the cruise control release operation. | Is the cruise control released after brake pedal has been depressed? | Go to step 15. | Go to phenomenon 8. <Ref. to CC(HEV)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.> |
| 15 CHECK CRUISE CONTROL RELEASE OPERATION. Check the cruise control release operation. | Is the cruise control released after shifting to the neutral position? | Finish the diagnosis. | Go to phenomenon 9. <Ref. to CC(HEV)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.> |