

ECM Cancel Code(s) Display

EyeSight (DIAGNOSTICS)

14. ECM Cancel Code(s) Display

A: OPERATION

1) On «Main Menu» display, select «Each System Check».

On «System Selection Menu» display, select «Engine Control System». Click the [OK] button after the information of engine type has been displayed.

2) Drive vehicle at 40 km/h (25 MPH) or more and set the cruise control.

CAUTION:

- 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.

3) When the set speed is cancelled by itself (without any cancel operations such as applying brake) or when the cruise control could not be set by performing the setting operation, select the «Cancel Code(s) Display» on the engine malfunction diagnosis screen.

NOTE:

The cancel code has a «Latest Cancel Code(s)» and «Memorized Cancel Code(s)». «Latest Cancel Code(s)» displays the latest code that occurred in this check drive. Cancel codes by the diagnosis of faulty switches relating to the system and cruise control are also displayed in the «Memorized Cancel Code(s)».

4) Perform Engine DTC Clear Memory operation. <Ref. to EN(H4DO w/o HEV)(diag)-65, Clear Memory Mode.>

Cancel codes for switches relating to the system and cruise control are deleted by clearing memory on the engine side.

NOTE:

- For detailed operation procedures, refer to “PC application help for Subaru Select Monitor”.
- The latest code will be cleared by turning ignition switch to OFF.
- For details on cancel codes, refer to List of ECM cruise control cancel code. <Ref. to ES(diag)-70, LIST, ECM Cancel Code(s) Display.>

B: LIST

- List of ECM cruise control cancel code(s)

When the cruise control is cancelled, the ECM outputs the following cancel codes.

Cancel code	Item	Contents of diagnosis	Reference
11	Main switch	Main switch of the EyeSight steering switch is turned to OFF, and the cruise control is released.	This DTC is displayed without operating the main switch. <Ref. to ES(diag)-62, CHECK EyeSight STEERING SWITCH, Diagnostics with Phenomenon.>
12	Stop & Brake switch	Stop light switch or brake switch is turned to ON, and then the cruise control is released.	This DTC is displayed without depressing the brake pedal. <Ref. to CC(w/o HEV)(diag)-19, 12, Diagnostic Procedure with Cancel Code.>
14	Neutral switch	Neutral position switch is turned to ON, and then the cruise control is released.	This DTC is displayed without shifting to neutral position. <Ref. to CC(w/o HEV)(diag)-22, 14, Diagnostic Procedure with Cancel Code.>

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Cancel code	Item	Contents of diagnosis	Reference
15	Cancel switch	Cancel switch is turned to ON, and then the cruise control is released.	This DTC is displayed without operating the cancel switch. <Ref. to CC(w/o HEV)(diag)-23, 15, Diagnostic Procedure with Cancel Code.>
16	Ignition switch	Ignition switch is turned to OFF, and then the cruise control is released.	This DTC is displayed without operating the ignition switch. <Ref. to CC(w/o HEV)(diag)-24, 16, Diagnostic Procedure with Cancel Code.>
21	Abnormality of switches when Ignition switch on	When the ignition switch is turned to ON, each switch of the EyeSight steering switch is already turned ON.	This DTC is displayed when turning ignition switch to ON without operating the EyeSight steering switch. <Ref. to CC(w/o HEV)(diag)-24, 21, Diagnostic Procedure with Cancel Code.>
22	Abnormality of change in vehicle speed	Malfunction of vehicle speed signal variation is detected.	<Ref. to CC(w/o HEV)(diag)-25, 22, Diagnostic Procedure with Cancel Code.>
24	Abnormality of switches related to cruise control	Open circuit of the EyeSight steering switch is detected during cruise driving. (The system is judged as model without cruise control.)	This DTC is displayed with normal operation. <Ref. to CC(w/o HEV)(diag)-25, 24, Diagnostic Procedure with Cancel Code.>
31	Engine Speed	<ul style="list-style-type: none"> Abnormal increase of engine speed is detected. Gear is placed in Neutral, 1st or Reverse position. 	Cruise in 2nd shift position or more. <Ref. to CC(w/o HEV)(diag)-25, 31, Diagnostic Procedure with Cancel Code.>
32	Cruse Control out of Range	<ul style="list-style-type: none"> Vehicle speed exceeds the controllable range during cruising. Set operation was performed at vehicle speed unavailable for setting. RESUME operation was performed without memorized vehicle speed. 	This DTC is displayed, though the vehicle speed is increased to the speed available for cruise set and set operation was performed again. <Ref. to CC(w/o HEV)(diag)-25, 32, Diagnostic Procedure with Cancel Code.>
34	Prohibition of cruise control at continuing big Accel. angle	The vehicle has been driven at higher speed than set vehicle speed for an abnormally long time (approximately 10 minutes) during cruise driving.	<Ref. to CC(w/o HEV)(diag)-25, 34, Diagnostic Procedure with Cancel Code.>
35	Prohibition of cruise control at vehicle speed F/B malfunction	Set vehicle speed cannot be kept because of some reasons (steep uphill, parking brake, abnormal decrease of engine output, etc.) during cruise driving.	<Ref. to CC(w/o HEV)(diag)-26, 35, Diagnostic Procedure with Cancel Code.>
41	VDC/TCS/EPB Operating	Vehicle dynamics control (VDC), TCS or EPB is operated during cruise driving or cruise setting.	<Ref. to CC(w/o HEV)(diag)-26, 41, Diagnostic Procedure with Cancel Code.>
43	ABS/VDC Failure	When the cruise switch is ON, ABS or vehicle dynamics control (VDC) system malfunction is detected.	<Ref. to CC(w/o HEV)(diag)-26, 43, Diagnostic Procedure with Cancel Code.>

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Cancel code	Item	Contents of diagnosis	Reference
44	Body Integrated unit Failure	When the cruise switch is ON, body integrated unit system malfunction is detected.	<Ref. to CC(w/o HEV)(diag)-26, 44, Diagnostic Procedure with Cancel Code.>
45	Meter Failure	When the cruise switch is ON, combination meter malfunction is detected.	<Ref. to CC(w/o HEV)(diag)-26, 45, Diagnostic Procedure with Cancel Code.>
47	Adaptive cruise control ECM abnormal	When the cruise switch is ON, stereo camera malfunction is detected.	Check the DTCs related to stereo camera.
49	TCM Failure	Transmission control module (TCM) malfunction is detected during cruise driving or cruise setting.	<Ref. to CC(w/o HEV)(diag)-26, 49, Diagnostic Procedure with Cancel Code.>
53	Adaptive Cruise Control Forced Cancel	Stereo camera detects the release command of the cruise control during cruise driving or cruise setting operation.	Check the stereo camera. Check the ACC cancel code. <Ref. to ES(diag)-73, ACC Cancel Code(s) Display.>
54	Release SW	Brake control module detects the brake pedal operation by the driver during cruise driving or cruise setting operation.	If this code is detected when the brake pedal is not depressed intentionally, check the release switch.
55	Adaptive cruise control reception data abnormal	When the cruise switch is ON, malfunction is detected in the reception data from the stereo camera.	Check the cancel code of stereo camera.
61	Brake Switch Failure	Malfunction in the stop light & brake switch is detected.	<Ref. to CC(w/o HEV)(diag)-26, 61, Diagnostic Procedure with Cancel Code.>
62	Neutral Switch Failure	Neutral position switch malfunction is detected.	<Ref. to CC(w/o HEV)(diag)-26, 62, Diagnostic Procedure with Cancel Code.>
63	Abnormality 1 of change in vehicle speed	Malfunction of vehicle speed signal variation is detected. This code may be displayed by a sudden starting of the vehicle on a road with low μ and with the VDC OFF. In this case, restart the engine and perform the cruise setting again. If the cancel code is not displayed, the vehicle is in normal status.	<Ref. to CC(w/o HEV)(diag)-27, 63, Diagnostic Procedure with Cancel Code.>
64	Engine Sensor Failure 1	Malfunction related to engine is detected.	<Ref. to CC(w/o HEV)(diag)-27, 64, Diagnostic Procedure with Cancel Code.>
65	Abnormality 1 of switches related to cruise control	Malfunction of the EyeSight steering switch is detected. (When the switch is pressed ON for a long time (approximately two minutes), stuck ON condition is detected.)	<Ref. to CC(w/o HEV)(diag)-27, 65, Diagnostic Procedure with Cancel Code.>
66	Cruise Control Calculation Error	Malfunction of the cruise control calculation (microcomputer) is detected.	<Ref. to CC(w/o HEV)(diag)-27, 66, Diagnostic Procedure with Cancel Code.>