

CRUISE CONTROL SYSTEM

CC

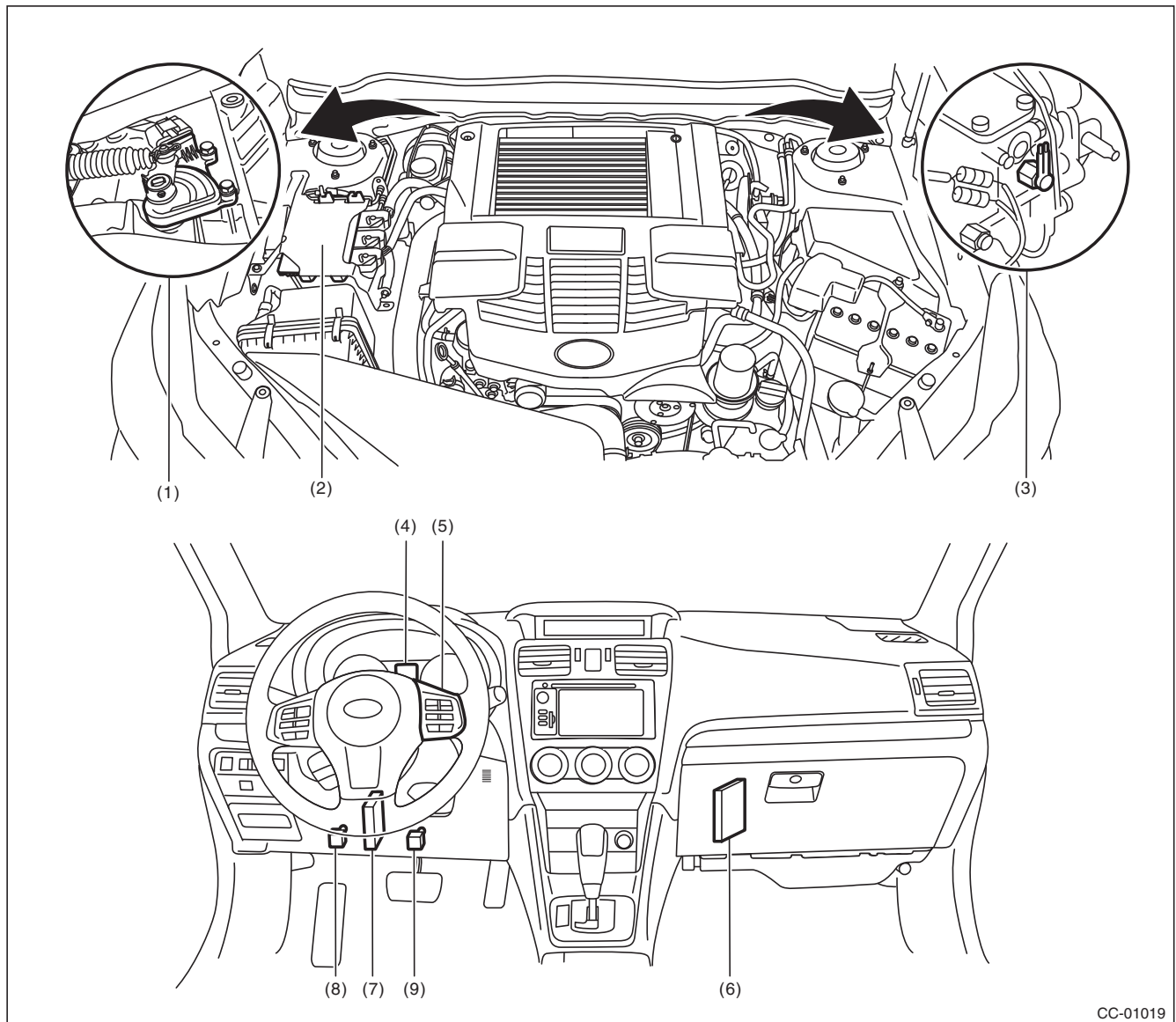
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General Description

CRUISE CONTROL SYSTEM

1. General Description

A: COMPONENT



- | | | |
|---|---|---|
| (1) Inhibitor switch (CVT model) | (4) Cruise indicator light and cruise set indicator light | (7) Transmission control module (CVT model) |
| (2) Engine control module (turbo model) | (5) Cruise control command switch | (8) Clutch switch (MT model) |
| (3) Neutral position switch (MT model) | (6) Engine control module (non-turbo model) | (9) Stop light and brake switch |

General Description

CRUISE CONTROL SYSTEM

B: CAUTION

- Before disassembling or reassembling parts, always disconnect the battery ground cable from battery. When replacing the audio, control module and other parts provided with memory functions, record the memory contents before disconnecting the battery ground cable. Otherwise, the memory is cleared.
- Reassemble the parts in the reverse order of disassembly procedure unless otherwise indicated.
- Adjust parts to the given specifications.
- Connect the connectors securely during reassembly.
- After reassembly, make sure that the each component operates normally.
- Yellow connectors and harnesses with yellow tapes around them are the connectors and harnesses for the airbag system. Using a tester above such circuits may cause malfunction of airbag system. Follow the cautions of "AIRBAG SYSTEM" in this case. <Ref. to AB-9, CAUTION, General Description.>
- Be careful not to damage the airbag system wiring harness when servicing electrical parts and switches.
- If the steering wheel and steering angle sensor (steering roll connector) are removed, adjust the steering angle sensor. <Ref. to VDC-23, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDC-CM&H/U).>

C: PREPARATION TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance and voltage.
Steering wheel puller	Used for removing the steering wheel.

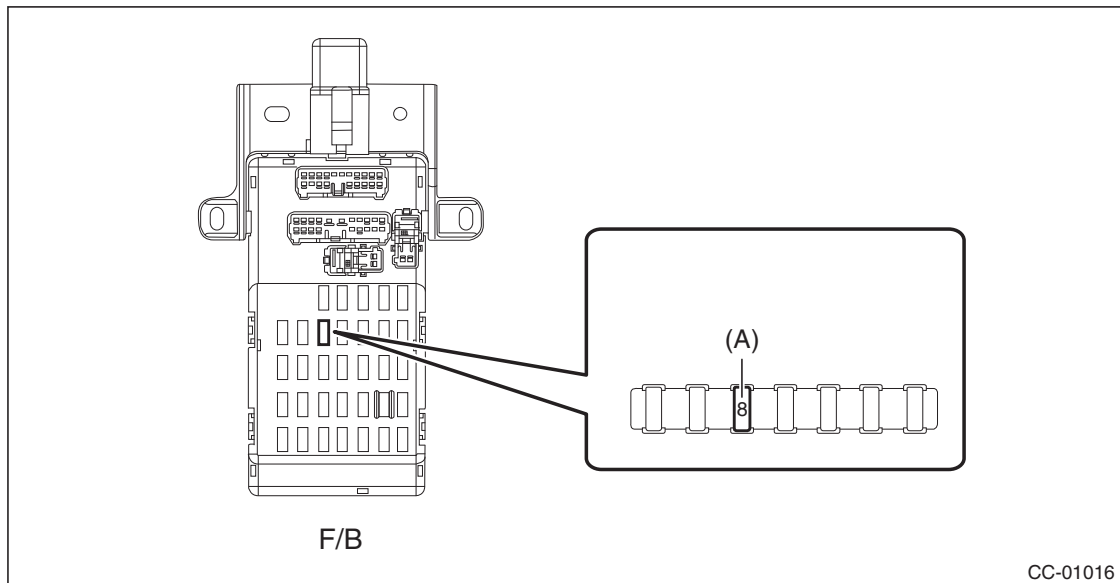


Relay and Fuse

CRUISE CONTROL SYSTEM

2. Relay and Fuse

A: LOCATION



Relay & fuse box	Fuse 15 A (stop light and brake switch)	(A)
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NOTE:

For other related fuses, refer to the wiring diagram. <Ref. to WI-24, Power Supply Circuit.>

B: INSPECTION

1. CHECK FUSE

- 1) Remove the fuse and inspect visually.
- 2) If the fuse is blown out, replace the fuse.

NOTE:

If the fuse is blown again, check the system wiring harness.

3. Cruise Control System

A: WIRING DIAGRAM

Refer to "Cruise Control System" in the wiring diagram.

- Non-turbo model: <Ref. to WI-133, NON-TURBO MODEL, WIRING DIAGRAM, Cruise Control System.>
- Turbo model: <Ref. to WI-138, TURBO MODEL, WIRING DIAGRAM, Cruise Control System.>

B: INSPECTION

Refer to "Basic Diagnostic Procedure" of "CRUISE CONTROL SYSTEM (DIAGNOSTICS)". <Ref. to CC(diag)-2, Basic Diagnostic Procedure.>

C: NOTE

For operation procedures of each component of the cruise control system, refer to the respective section.

- Cruise control unit: <Ref. to CC-6, Cruise Control Module.>
- Cruise control command switch: <Ref. to CC-7, Cruise Control Command Switch.>
- Combination meter: <Ref. to CC-11, Combination Meter.>
- Stop light & brake switch: <Ref. to CC-12, Stop Light & Brake Switch.>
- Clutch switch: <Ref. to CC-13, Clutch Switch.>
- Inhibitor switch: <Ref. to CC-14, Inhibitor Switch.>
- Transmission control module (TCM): <Ref. to CC-15, Transmission Control Module (TCM).>
- Neutral position switch: <Ref. to CC-16, Neutral Position Switch.>

Cruise Control Module

CRUISE CONTROL SYSTEM

4. Cruise Control Module

A: NOTE

The control of cruise control system is carried out in engine control module (ECM).

B: REMOVAL

For removal procedures of the control module, refer to "FUEL INJECTION (FUEL SYSTEMS)".

- Non-turbo model: <Ref. to FU(H4DO)-94, REMOVAL, Engine Control Module (ECM).>
- Turbo model: <Ref. to FU(H4DOTC)-134, REMOVAL, Engine Control Module (ECM).>

C: INSTALLATION

For installation procedures of the control module, refer to "FUEL INJECTION (FUEL SYSTEMS)".

- Non-turbo model: <Ref. to FU(H4DO)-95, INSTALLATION, Engine Control Module (ECM).>
- Turbo model: <Ref. to FU(H4DOTC)-136, INSTALLATION, Engine Control Module (ECM).>

5. Cruise Control Command Switch

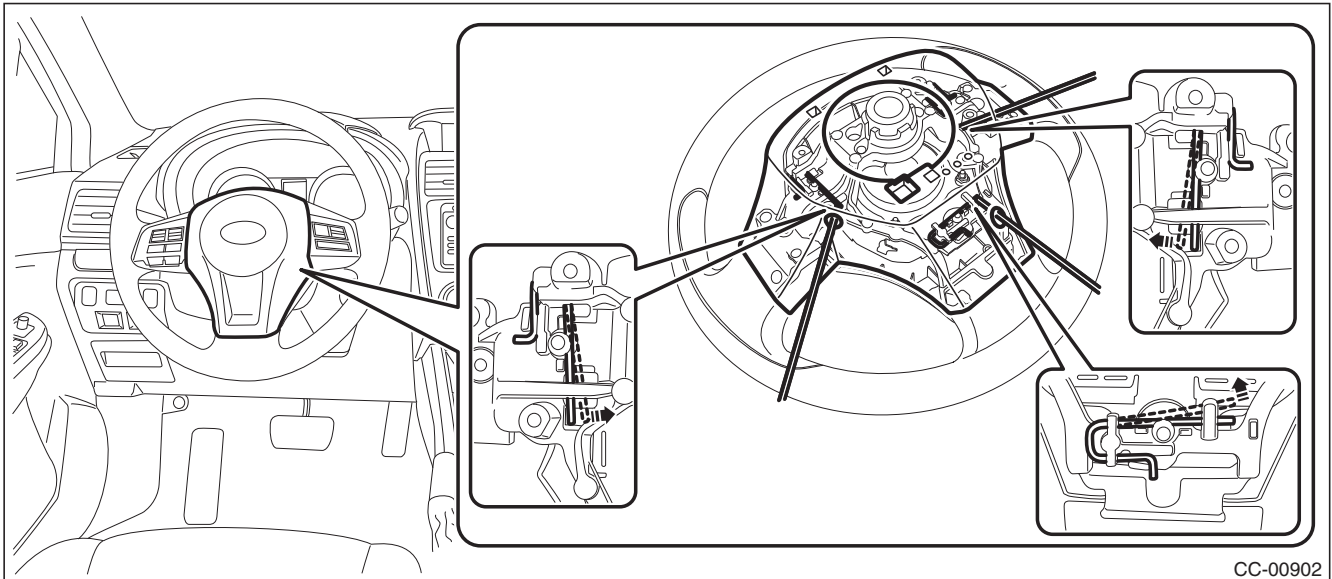
A: REMOVAL

- 1) Position the front wheels straight ahead. (After moving a vehicle 5 m (16 ft) or more with front wheels positioned straight ahead, make sure that the vehicle moves straight ahead.)
- 2) Turn the ignition switch to OFF.
- 3) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work.
- 4) Remove the driver's airbag module.

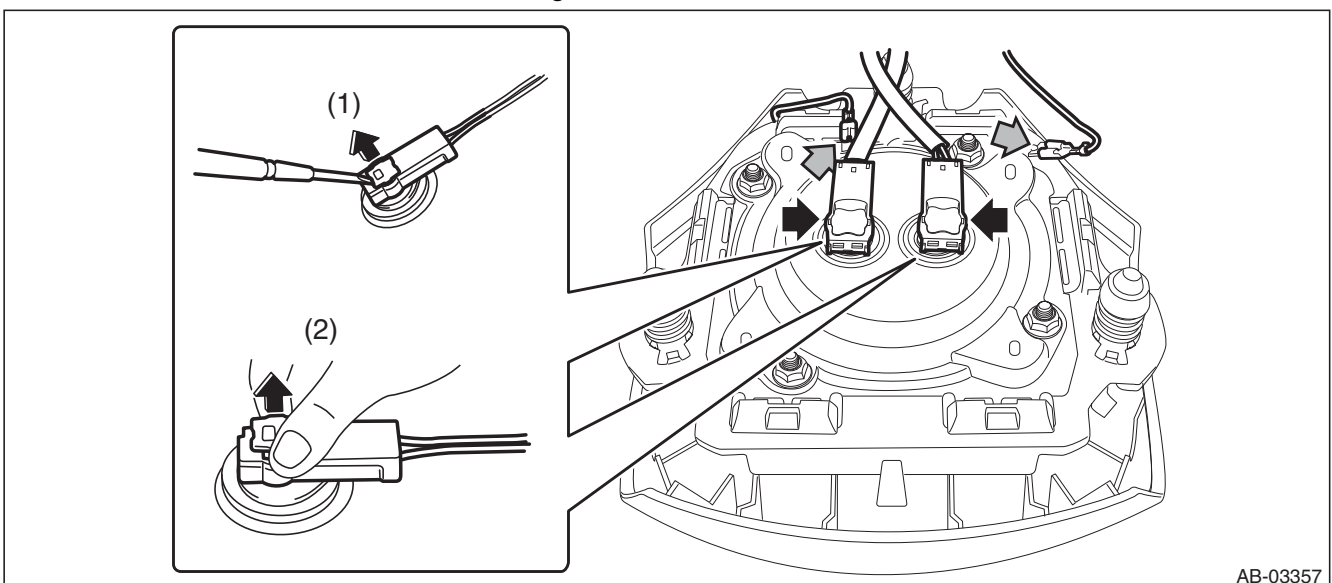
CAUTION:

Before handling the airbag module, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM". <Ref. to AB-9, CAUTION, General Description.>

- (1) Using a hexagon wrench etc. wrapped by protective tape, insert the snap pins and release the locks (3 locations).



- (2) Disconnect the horn harness and airbag connector, and remove the driver's airbag module. <Ref. to AB-21, DRIVER'S AIRBAG MODULE, KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE AND PRETENSIONER, PROCEDURE, Airbag Connector.>



Cruise Control Command Switch

CRUISE CONTROL SYSTEM

5) Remove the steering wheel.

CAUTION:

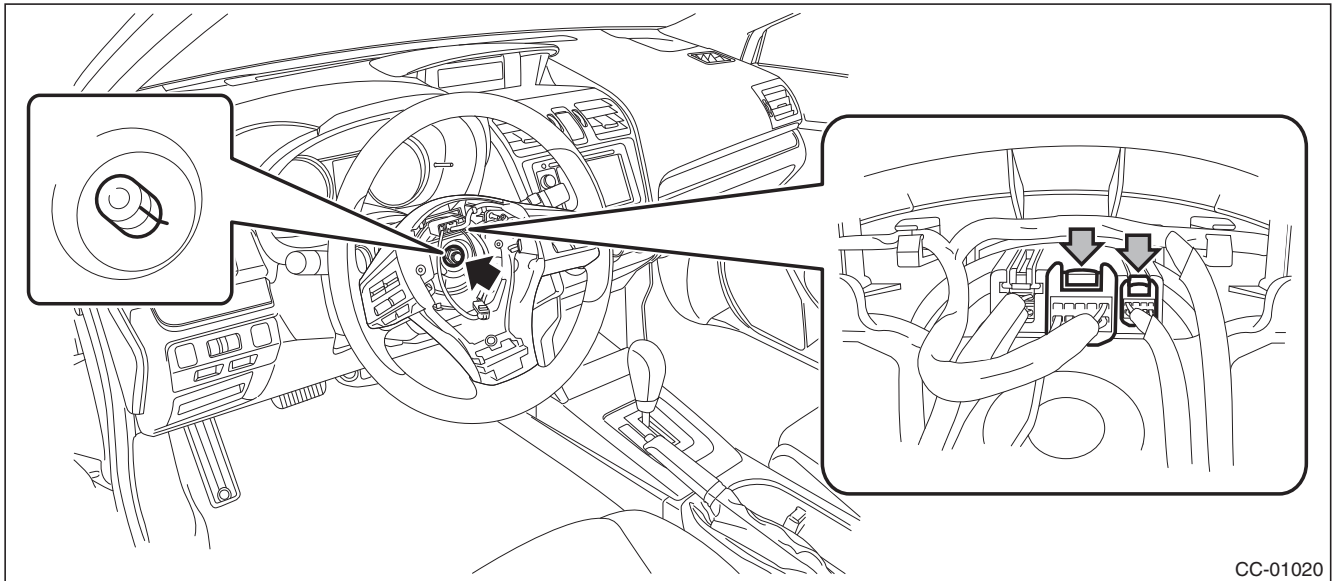
- Always use the steering wheel puller for removal to avoid deforming the steering wheel.
- If the steering wheel has been removed, make sure that the roll connector is not turned from the original position.

(1) Disconnect the connector and remove the nut.

(2) Put alignment marks and remove the steering wheel using a steering wheel puller.

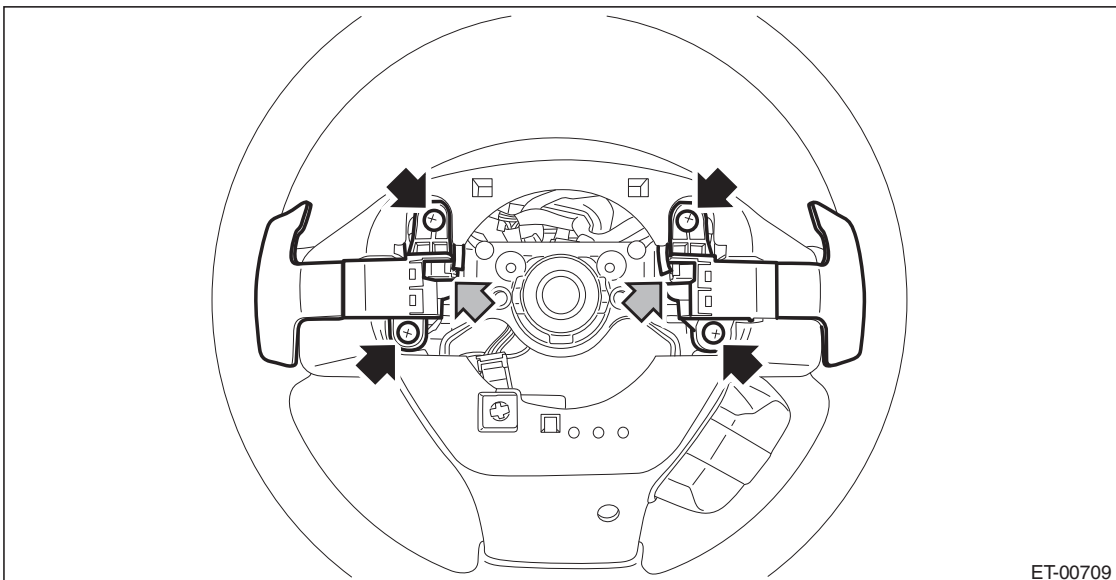
Preparation tool:

Steering wheel puller



6) Remove the cruise control command switch assembly.

- (1) Remove the screw, disconnect the connector and remove the paddle shift switch. (Model with paddle shift)



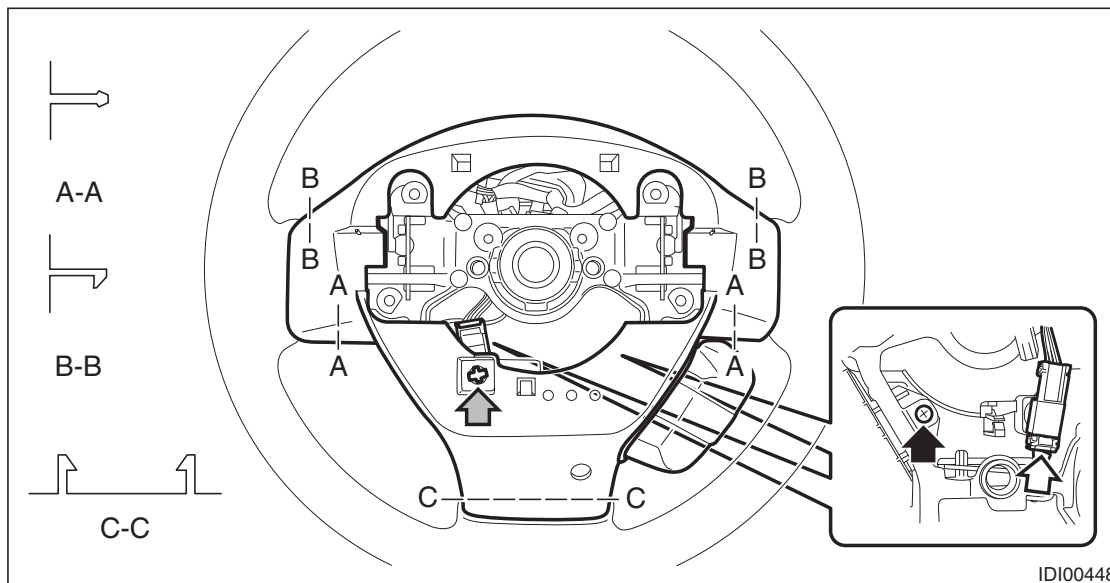
Cruise Control Command Switch

CRUISE CONTROL SYSTEM

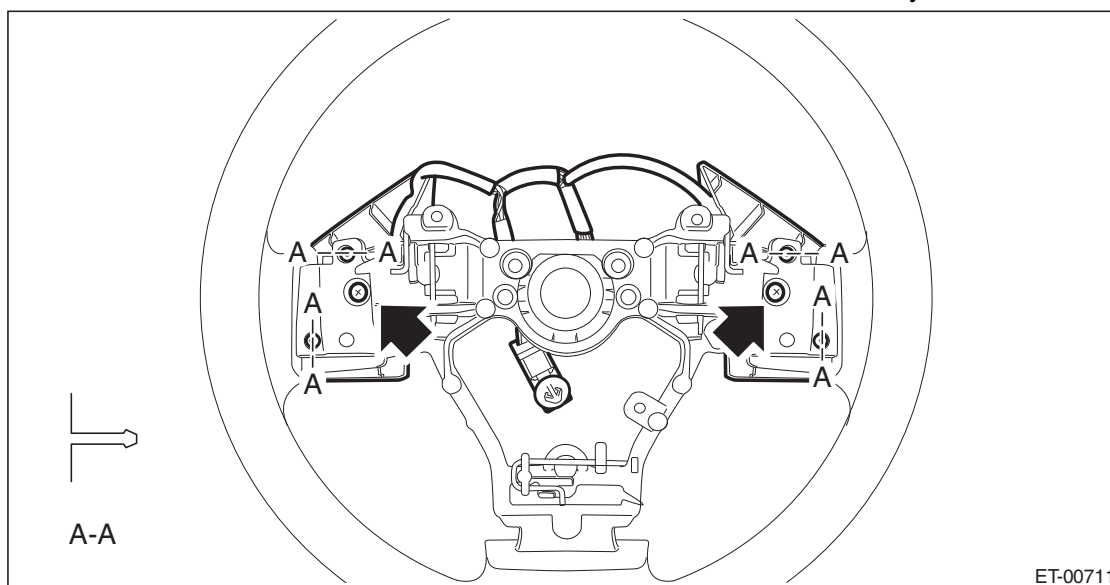
- (2) Release the claws and clips, and remove the lower cover - steering wheel LWR.

NOTE:

For model with steering switch, remove the connector and screw.



- (3) Remove the screw to remove the cruise control command switch assembly.



Cruise Control Command Switch

CRUISE CONTROL SYSTEM

B: INSTALLATION

CAUTION:

- Before handling the airbag module, refer to “CAUTION” of “General Description” in “AIRBAG SYSTEM”. <Ref. to AB-9, CAUTION, General Description.>
- Do not allow harness and connectors to interfere or get tangled up with other parts.
- If the steering wheel and steering angle sensor (steering roll connector) are removed, adjust the steering angle sensor. <Ref. to VDC-23, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

1) Before installing steering wheel, be sure to adjust the direction of steering roll connector with steering wheel. <Ref. to AB-103, ADJUSTMENT, Roll Connector.>

2) Install each part in the reverse order of removal.

NOTE:

Align the alignment marks on the steering wheel and the column assembly - steering.

Tightening torque:

Steering wheel: 39 N·m (3.98 kgf-m, 28.8 ft-lb)

Clearance:

Between cover assembly - column and steering wheel: 4 — 6 mm (0.16 — 0.24 in)

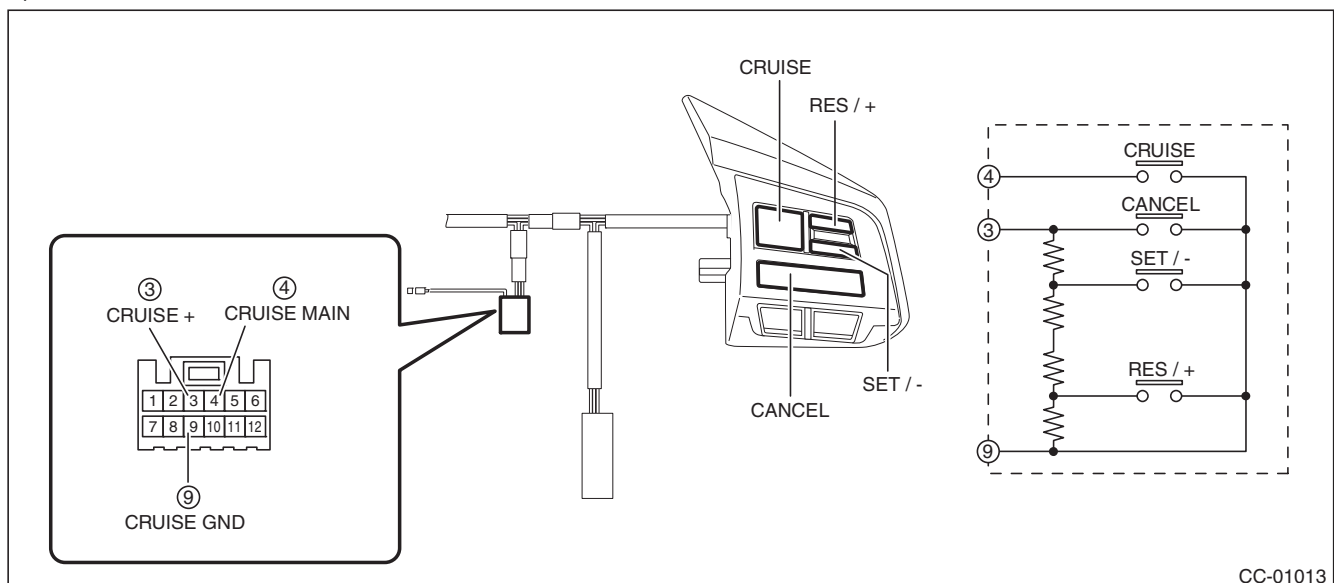
C: INSPECTION

UNIT INSPECTION

Preparation tool:

Circuit tester

1) Check the resistance between switch terminals.



CC-01013

Terminal No.	Inspection conditions		Standard
3 — 9	CANCEL SET/- RES/+	All OFF	Approx. 4020 Ω
3 — 9	CANCEL	ON	Less than 1 Ω
3 — 9	SET/-	ON	Approx. 250 Ω
3 — 9	RES/+	ON	Approx. 1470 Ω
4 — 9	CRUISE (MAIN)	OFF	1 MΩ or more
4 — 9		ON	Less than 1 Ω

2) Replace the cruise control command switch assembly if the inspection result is not within the standard.

6. Combination Meter

A: NOTE

For the combination meter, refer to “INSTRUMENTATION/DRIVER INFO” section. <Ref. to IDI-18, Combination Meter.>

Stop Light & Brake Switch

CRUISE CONTROL SYSTEM

7. Stop Light & Brake Switch

A: NOTE

For stop light and brake switch, refer to “BRAKE” section. <Ref. to BR-78, INSPECTION, Stop Light Switch.>

8. Clutch Switch

A: NOTE

For clutch switch, refer to “CLUTCH SYSTEM” section. <Ref. to CL-29, Clutch Switch.>

Inhibitor Switch

CRUISE CONTROL SYSTEM

9. Inhibitor Switch

A: NOTE

For inhibitor switch, refer to “CONTINUOUSLY VARIABLE TRANSMISSION” section.

- Non-turbo model: <Ref. to CVT(TR580)-91, Inhibitor Switch.>
- Turbo model: <Ref. to CVT(TR690)-91, Inhibitor Switch.>

10. Transmission Control Module (TCM)

A: NOTE

For transmission control module (TCM), refer to “CONTINUOUSLY VARIABLE TRANSMISSION” section.

- Non-turbo model: <Ref. to CVT(TR580)-144, Transmission Control Module (TCM).>
- Turbo model: <Ref. to CVT(TR690)-123, Transmission Control Module (TCM).>

Neutral Position Switch

CRUISE CONTROL SYSTEM

11. Neutral Position Switch

A: NOTE

For neutral position switch, refer to "MANUAL TRANSMISSION AND DIFFERENTIAL" section. <Ref. to 6MT-40, Switches and Harness.>

12. Diagnostics with Phenomenon

A: INSPECTION

Refer to “Diagnostics with Phenomenon” of “CRUISE CONTROL SYSTEM (DIAGNOSTICS)” section. <Ref. to CC(diag)-11, Diagnostics with Phenomenon.>

Diagnostics with Phenomenon

CRUISE CONTROL SYSTEM

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

CC(diag)

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Basic Diagnostic Procedure

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

1. Basic Diagnostic Procedure

A: PROCEDURE

CAUTION:

- Before performing all diagnostics or cruise control diagnostics, always start the engine and make sure that the initial illumination of the ABS/VDC warning light has been ended. (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 MALFUNCTION INDICATOR LIGHT. Make sure the malfunction indicator light illuminates.	Does the malfunction indicator light illuminate?	Go to step 5.	Go to step 2.
2	CHECK CRUISE INDICATOR LIGHT. Make sure the CRUISE indicator light blinks.	Does the CRUISE indicator light blink?	Go to step 7.	Go to step 3.
3	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 4.	Go to phenomenon 1. <Ref. to CC(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
4	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 8.	Go to step 7.
5	CHECK DTC. Read all DTCs using the Subaru Select Monitor.	Is an engine or ABS/VDC related DTC displayed?	Record the DTC. Go to step 6.	Go to phenomenon 2. <Ref. to CC(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
6	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 or ABS/VDC related DTC.	Perform the diagnosis according to the engine or ABS/VDC related DTC.
7	CHECK CANCEL CODE. Using the Subaru Select Monitor, read the cancel codes. NOTE: • 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(diag)-13, LIST, List of Cancel Code.>	Go to step 8.

Basic Diagnostic Procedure

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
8 CHECK SET INDICATOR. Check the illumination of the SET indicator.	Does the SET indicator illuminate?	Go to step 9 .	Go to phenomenon 3. <Ref. to CC(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
9 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 10 .	Go to phenomenon 4. <Ref. to CC(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
10 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 11 .	Go to phenomenon 5. <Ref. to CC(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
11 CHECK SET/- OPERATION. Check the SET/- switch operation.	Does the vehicle speed decrease after SET/- switch has been pressed?	Go to step 12 .	Go to phenomenon 6. <Ref. to CC(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
12 CANCEL OPERATION CHECK. Check the CANCEL switch operation.	Is the cruise control released after CANCEL switch has been pressed?	Go to step 13 .	Go to phenomenon 7. <Ref. to CC(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
13 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 14 .	Go to phenomenon 8. <Ref. to CC(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>



Basic Diagnostic Procedure

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
14 CHECK CRUISE CONTROL RELEASE OPERATION. Check the cruise control release operation.	Is the cruise control released after shifting to the neutral position?	Go to step 15.	Go to phenomenon 9. <Ref. to CC(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 depressing the clutch pedal?	Finish the diagnosis.	Go to phenomenon 10. <Ref. to CC(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>



General Description

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

2. General Description

A: CAUTION

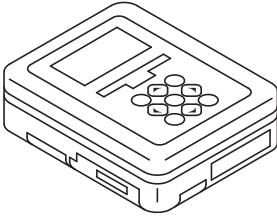
Airbag system wiring harness is routed near the cruise control command switch.

CAUTION:

- Do not use the electrical test equipment on the airbag system wiring harnesses and connector circuits.
- Be careful not to damage the airbag system wiring harness when servicing the cruise control command switch. Airbag system wiring harness is routed near the cruise control command switch.

B: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for troubleshooting the electrical system.

2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance, voltage and current.

C: INSPECTION

Measure the battery voltage and specific gravity of electrolyte.

Standard voltage:
12 V or more

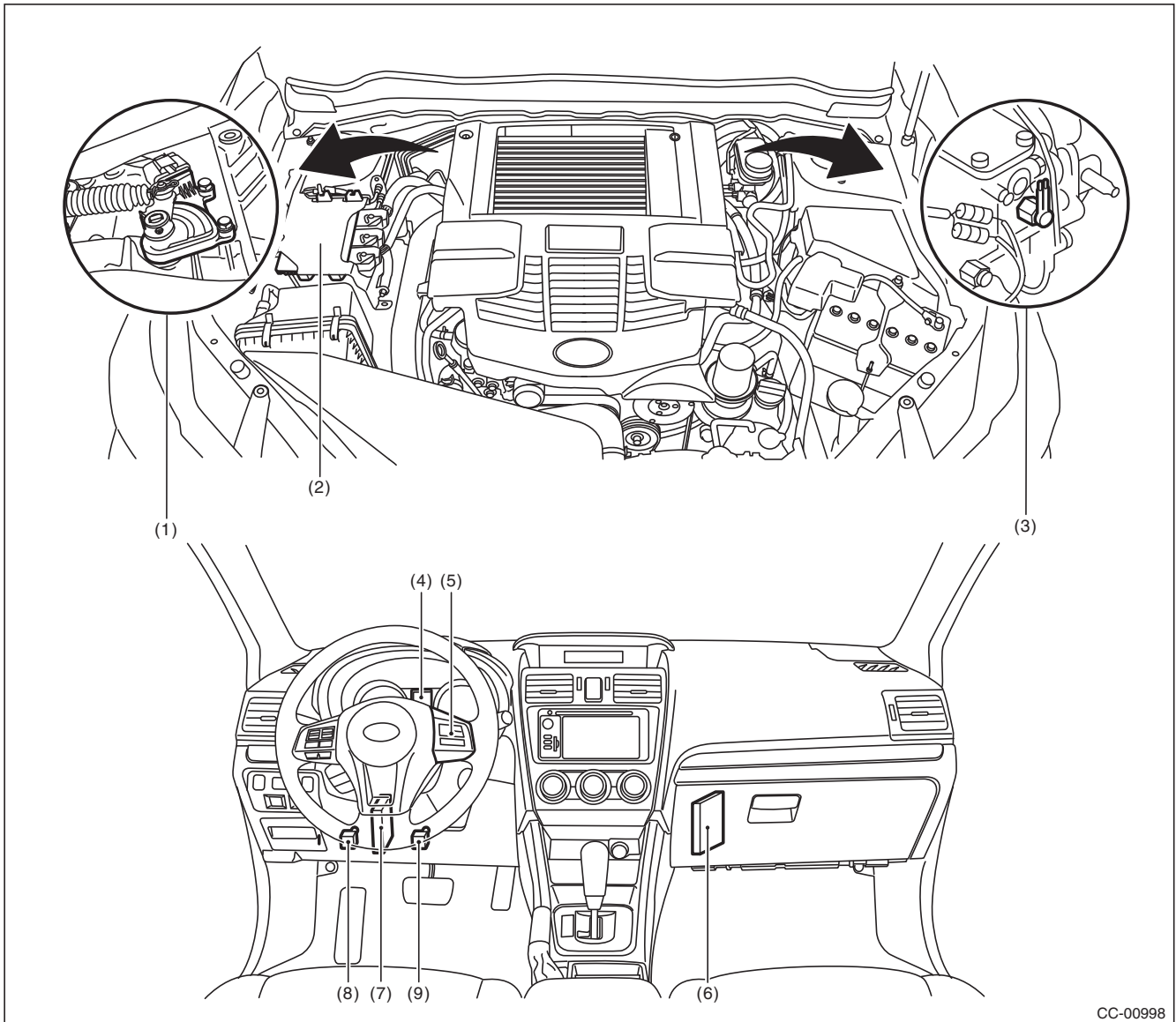
Specific gravity:
1.260 or more

Electrical Component Location

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

3. Electrical Component Location

A: LOCATION



CC-00998

- | | | |
|---|---|---|
| (1) Inhibitor switch (CVT model) | (4) Cruise indicator light and cruise set indicator light | (7) Transmission control module (CVT model) |
| (2) Engine control module (turbo model) | (5) Cruise control command switch | (8) Clutch switch (MT model) |
| (3) Neutral position switch (MT model) | (6) Engine control module (non-turbo model) | (9) Stop light & brake switch |

Engine Control Module (ECM) I/O Signal

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

4. Engine Control Module (ECM) I/O Signal

A: ELECTRICAL SPECIFICATION

For details on the input/output signals for the engine control module, refer to ENGINE (DIAGNOSTICS).
<Ref. to EN(H4DO)(diag)-19, ELECTRICAL SPECIFICATION, Engine Control Module (ECM) I/O Signal.>

B: WIRING DIAGRAM

<Ref. to WI-133, WIRING DIAGRAM, Cruise Control System.>



Subaru Select Monitor

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

5. Subaru Select Monitor

A: OPERATION

1. GENERAL DESCRIPTION

The on-board diagnosis function of the cruise control system uses Subaru Select Monitor.

The on-board diagnosis function operates in two categories, which are used depending on the type of problems;

1) Cruise Control Cancel Conditions Diagnosis:

(1) This category of diagnosis requires actual vehicle driving in order to determine the cause, as when cruise speed is cancelled during driving although cruise cancel condition is not entered.

(2) Cruise control memory in ECM stores the cancel code which occurred during driving. When there are multiple cancel code, they are shown on the Subaru Select Monitor.

CAUTION:

- The cruise control memory stores not only the cruise “cancel” which occurred (although “cancel” operation is not entered by the driver), but also the “cancel” condition input by the driver.

- The latest memory content (latest code) is cleared when ignition switch is turned to OFF. However, memory contents set by the diagnosis of faulty switches related to the system and cruise control will remain as trouble history (memory code) after the ignition switch is turned to OFF.

2) Real-time Diagnosis:

Real-time diagnosis function is used to determine whether or not the input signal system is in good order, according to signal emitted from switches, sensors, etc.

(1) Vehicle cannot be driven at cruise speed when the problem occurs in the cruise control system or relevant circuits.

(2) Monitor the signal conditions from switches and sensors.

2. BASIC OPERATION

For operation procedures, refer to the “PC application help for Subaru Select Monitor”.

Read Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

6. Read Cancel Code

A: OPERATION

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

On «System Selection Menu» display, select {Engine Control System} and select the [OK]. Select [OK] after the engine type information is displayed.

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

NOTE:

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.)

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, selecting the {Cancel Code(s) Display} on the engine malfunction diagnosis screen will display the cancel code on the select monitor display.

NOTE:

The {Latest Diagnostic Code(s)} and {Memorized Diagnostic Code(s)} are contained in the cancel code. The latest code recognized during current test drive is displayed in {Latest Diagnostic Code(s)}. Cancel codes resulting from fault diagnosis of switches relating to the system and cruise control are also displayed in {Memorized Diagnostic Code(s)}.

4) Perform Engine DTC Clear Memory operation. <Ref. to EN(H4DO)(diag)-58, OPERATION, Clear Memory Mode.>

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

NOTE:

- The latest code will be cleared by turning ignition switch to OFF.
- For detailed operation procedures, refer to "PC application help for Subaru Select Monitor".
- For details on cancel codes, refer to List of Cancel Code. <Ref. to CC(diag)-13, List of Cancel Code.>



Real-time Diagnosis

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

7. Real-time Diagnosis

A: OPERATION

1) Select {Current Data Display & Save} in «Engine Diagnosis» display screen.

2) Make sure that normal display is shown when operated as follows:

- Depress and release the brake pedal. (Stop light switch and brake switch turn ON.)
- Turn the "CRUISE" switch to ON.
- Turn the "CANCEL" switch to ON.
- Turn the "SET/—" switch to ON.
- Turn the "RES/+" switch to ON.
- Depress or release the clutch switch.
- Place the shift lever in any position other than neutral.

NOTE:

For detailed operation procedures, refer to "PC application help for Subaru Select Monitor".

Diagnostics with Phenomenon

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

8. Diagnostics with Phenomenon

A: DIAGNOSTIC PROCEDURE WITH PHENOMENON

Phenomenon	Check Item	Note
1 CRUISE switch is not turned ON. (CRUISE indicator does not illuminate.) Or the cruise control is cancelled without CRUISE switch operation.	(1) Perform cruise cancel conditions diagnosis.	Perform the diagnosis according to displayed cancel code.
	(2) Perform the real-time diagnosis.	Check the input signal of cruise control system.
	(3) Check the cruise control command switch.	<Ref. to CC(diag)-15, 11, Diagnostic Procedure with Cancel Code.>
	(4) Check the CRUISE indicator.	<Ref. to CC(diag)-12, CHECK CRUISE INDICATOR LIGHT AND CRUISE SET INDICATOR LIGHT, Diagnostics with Phenomenon.>
2 Cruise control cannot be set. Or cruise control is cancelled without releasing operation.	(1) Perform cruise cancel conditions diagnosis.	Perform the diagnosis according to displayed cancel code.
	(2) Perform the real-time diagnosis.	Check the input signal of cruise control system.
	(3) Check the cruise control command switch.	<Ref. to CC(diag)-15, 11, Diagnostic Procedure with Cancel Code.>
	(4) Check stop light switch and brake switch.	<Ref. to BR-74, Stop Light Switch.> <Ref. to CC(diag)-17, 12, Diagnostic Procedure with Cancel Code.>
	(5) Check clutch switch.	<Ref. to CL-29, Clutch Switch.> <Ref. to CC(diag)-20, 13, Diagnostic Procedure with Cancel Code.>
	(6) Check the neutral position switch.	<Ref. to CC(diag)-21, 14, Diagnostic Procedure with Cancel Code.> <Ref. to CC(diag)-26, 62, Diagnostic Procedure with Cancel Code.>
	(7) Check vehicle speed sensor.	<Ref. to CC(diag)-25, 22, Diagnostic Procedure with Cancel Code.>
3 SET indicator does not illuminate.	Check the SET indicator.	<Ref. to CC(diag)-12, CHECK CRUISE INDICATOR LIGHT AND CRUISE SET INDICATOR LIGHT, Diagnostics with Phenomenon.>
4 Vehicle speed is not held within set speed ± 3 km/h (± 2 MPH).	Check the vehicle speed sensor.	<Ref. to CC(diag)-25, 22, Diagnostic Procedure with Cancel Code.>
5 Vehicle speed does not increase or does not return to set speed after RES/+ switch has been pressed.	(1) Perform the real-time diagnosis.	Check the input signal of cruise control system.
	(2) Check the RES/+ switch.	<Ref. to CC(diag)-15, 11, Diagnostic Procedure with Cancel Code.>
6 Vehicle speed does not decrease after SET/- switch has been pressed.	(1) Perform the real-time diagnosis.	Check the input signal of cruise control system.
	(2) Check the SET/- switch.	<Ref. to CC(diag)-15, 11, Diagnostic Procedure with Cancel Code.>
7 Cruise control is not released after CANCEL switch has been pressed.	(1) Perform the real-time diagnosis.	Check the input signal of cruise control system.
	(2) Check the CANCEL switch.	<Ref. to CC(diag)-15, 11, Diagnostic Procedure with Cancel Code.>
8 Cruise control is not released after brake pedal has been depressed.	(1) Perform the real-time diagnosis.	Check the input signal of cruise control system.
	(2) Check stop light switch and brake switch.	<Ref. to CC(diag)-17, 12, Diagnostic Procedure with Cancel Code.> <Ref. to BR-76, INSTALLATION, Stop Light Switch.>
9 Cruise control is not released after shifting to the neutral position.	(1) Perform the real-time diagnosis.	Check the input signal of cruise control system.
	(2) Check the neutral position switch.	<Ref. to CC(diag)-21, 14, Diagnostic Procedure with Cancel Code.> <Ref. to CC-16, Neutral Position Switch.>
10 Cruise control is not released after clutch pedal has been depressed.	(1) Perform the real-time diagnosis.	Check the input signal of cruise control system.
	(2) Check clutch switch.	<Ref. to CC(diag)-20, 13, Diagnostic Procedure with Cancel Code.> <Ref. to CL-29, CLUTCH SWITCH, INSTALLATION, Clutch Switch.>

CC(diag)-11



Diagnostics with Phenomenon

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

B: CHECK CRUISE INDICATOR LIGHT AND CRUISE SET INDICATOR LIGHT

TROUBLE SYMPTOM:

Cruise control can be set, but the CRUISE indicator and SET indicator do not illuminate.

Step	Check	Yes	No
1 CHECK CRUISE INDICATOR LIGHT AND CRUISE SET INDICATOR LIGHT. Check the combination meter. <Ref. to IDI-7, OPERATION, Combination Meter System.>	Do the CRUISE & SET indicators illuminate?	Go to step 2.	Replace the meter case assembly. <Ref. to IDI-18, Combination Meter.>
2 CHECK LAN SYSTEM. Perform the diagnosis for LAN system. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>	Is a DTC of the LAN system detected?	Perform the diagnosis according to DTC for LAN system.	Replace the ECM. <Ref. to FU(H4DO)-94, Engine Control Module (ECM).>

List of Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

9. List of Cancel Code

A: LIST

NOTE:

- The cancel code is registered even when cancel is performed intentionally by the driver.
- Cancel codes are cleared if the ignition switch is turned to OFF.
- If a different cancel code is input after a cancel code (latest code) has been input, the latest code is overwritten.
- If the cruise indicator light is flashing, a malfunction is occurring in the system or cruise control related switch. The cancel code at this time is saved even after ignition switch is OFF as a memory code of a past malfunction.
- To display a cancel code, use the Subaru Select Monitor to read the code after the cruise control is deactivated during a driving test.

Cancel code	Item	Contents of diagnosis	Note
11	Main switch	CRUISE switch of cruise control command switch is turned to OFF, and then the cruise control is released.	This code is displayed without operating the CRUISE switch. <Ref. to CC(diag)-15, 11, Diagnostic Procedure with Cancel Code.>
12	Stop & brake switch	Stop light switch or brake switch is turned to ON, and then the cruise control is released.	This code is displayed without depressing the brake pedal. <Ref. to CC(diag)-17, 12, Diagnostic Procedure with Cancel Code.>
13	Clutch switch	Clutch switch is turned to ON, and then the cruise control is released.	This code is displayed without depressing the clutch pedal. <Ref. to CC(diag)-20, 13, Diagnostic Procedure with Cancel Code.>
14	Neutral switch	Neutral position switch is turned to ON, and then the cruise control is released.	This code is displayed without shifting to neutral position. <Ref. to CC(diag)-21, 14, Diagnostic Procedure with Cancel Code.>
15	Cancel switch	Cancel switch is turned to ON, and then the cruise control is released.	This code is displayed without operating the cancel switch. <Ref. to CC(diag)-22, 15, Diagnostic Procedure with Cancel Code.>
16	Ignition switch	Ignition switch is turned to OFF, and then the cruise control is released.	This code is displayed without operating the ignition switch. <Ref. to CC(diag)-23, 16, Diagnostic Procedure with Cancel Code.>
21	Cruise control switch malfunction when the ignition switch is ON	When the ignition switch is turned to ON, each switch of cruise control command switch is already turned to ON.	This code is displayed when the ignition switch is turned to ON without operating the cruise control command switch. <Ref. to CC(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(diag)-25, 22, Diagnostic Procedure with Cancel Code.>
24	Abnormality of switches related to cruise control	Open circuit of the cruise control switch is detected during cruise driving. (The system is judged as model without cruise control.)	This code is displayed with normal operation. <Ref. to CC(diag)-25, 24, Diagnostic Procedure with Cancel Code.>
31	Abnormal engine speed Signal	• Abnormal increase of engine speed is detected. • Gear is placed in Neutral, 1st or Reverse position. • When in X mode.	Cruise in 2nd shift position or more. <Ref. to CC(diag)-25, 31, Diagnostic Procedure with Cancel Code.>

List of Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Cancel code	Item	Contents of diagnosis	Note
32	Cruise Control out of Range	- Controlled vehicle speed decreased under the limit during cruising. - Set operation was performed at vehicle speed unavailable for setting. - RESUME operation was performed without memorized vehicle speed.	This code is displayed, though the vehicle speed is increased to the speed available for cruise set and set operation was performed again. <Ref. to CC(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.	This code is displayed when driving for a long period of time at higher speed than appropriate cruise set vehicle speed by operating accelerator pedal. In this case, the cruise setting is deactivated. <Ref. to CC(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.	This code is displayed when driving condition is not suitable for cruise control. Perform cruise set operation again after clearing the possible cause. <Ref. to CC(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.	This code is displayed when driving condition is not suitable for cruise control. Perform cruise set operation again after clearing the possible cause. <Ref. to CC(diag)-26, 41, Diagnostic Procedure with Cancel Code.>
43	ABS/VDC Failure	- Detected the situation that some or all functions of ABS or VDC can not be activated during cruise driving or cruise setting. - The CRUISE switch was pressed before starting the engine, but the CRUISE indicator did not illuminate.	<Ref. to CC(diag)-26, 43, Diagnostic Procedure with Cancel Code.>
44	Body Integrated unit Failure	Body integrated unit system malfunction is detected during cruise driving or cruise setting.	<Ref. to CC(diag)-26, 44, Diagnostic Procedure with Cancel Code.>
45	Meter Failure	Combination meter malfunction is detected during cruise driving or cruise setting.	<Ref. to CC(diag)-26, 45, Diagnostic Procedure with Cancel Code.>
49	TCM Failure	Transmission control module (TCM) malfunction is detected during cruise driving or cruise setting.	<Ref. to CC(diag)-26, 49, Diagnostic Procedure with Cancel Code.>
61	Brake switch abnormal	Malfunction in the stop light & brake switch is detected.	<Ref. to CC(diag)-26, 61, Diagnostic Procedure with Cancel Code.>
62	Neutral switch abnormal	Neutral position switch malfunction is detected.	<Ref. to CC(diag)-26, 62, Diagnostic Procedure with Cancel Code.>
63	Abnormality 1 of change in vehicle speed	Malfunction of vehicle speed signal variation is detected.	<Ref. to CC(diag)-27, 63, Diagnostic Procedure with Cancel Code.>
64	Engine Sensor Failure 1	Malfunction related to engine is detected.	<Ref. to CC(diag)-27, 64, Diagnostic Procedure with Cancel Code.>
65	Abnormality of switches related to cruise control 1	Cruise control command switch malfunction is detected. (When the switch is pressed ON for a long time (approximately two minutes), stuck ON condition is detected.)	<Ref. to CC(diag)-27, 65, Diagnostic Procedure with Cancel Code.>
66	Cruise Control Calculation Error	Cruise control calculation (microcomputer) malfunction is detected.	<Ref. to CC(diag)-27, 66, Diagnostic Procedure with Cancel Code.>



Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

10. Diagnostic Procedure with Cancel Code

A: 11

When CRUISE switch is pressed, or a malfunction related to CRUISE switch occurs, this is detected.

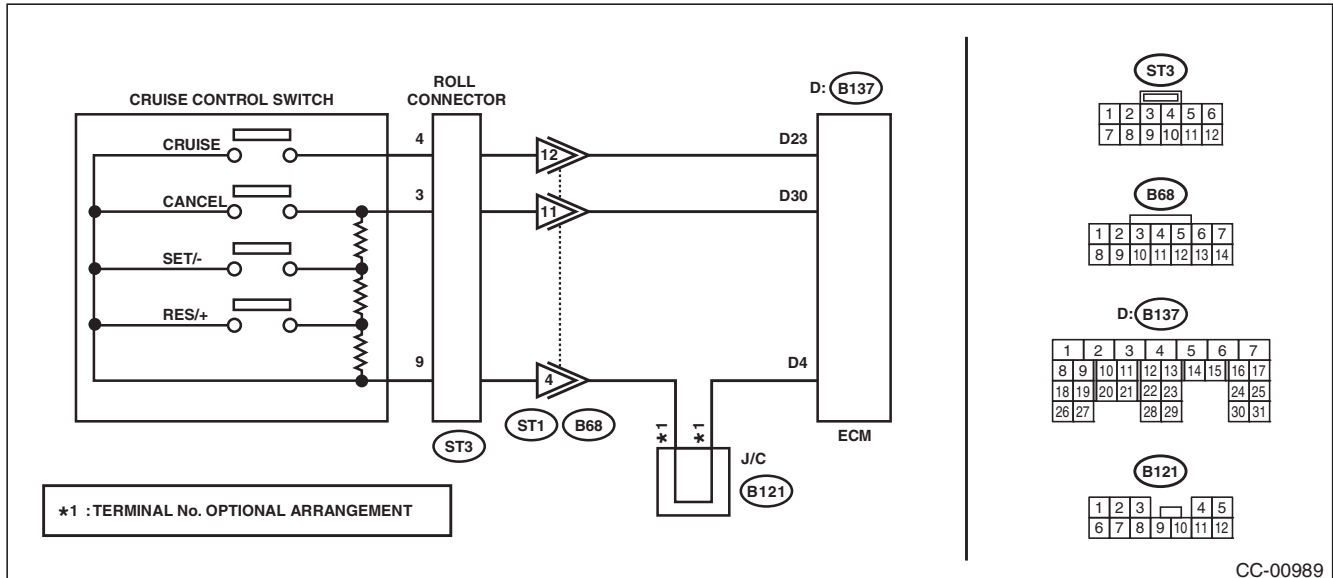
TROUBLE SYMPTOM:

- Cruise control cannot be set. (Cancelled immediately.)
- Cruise control cannot be released.

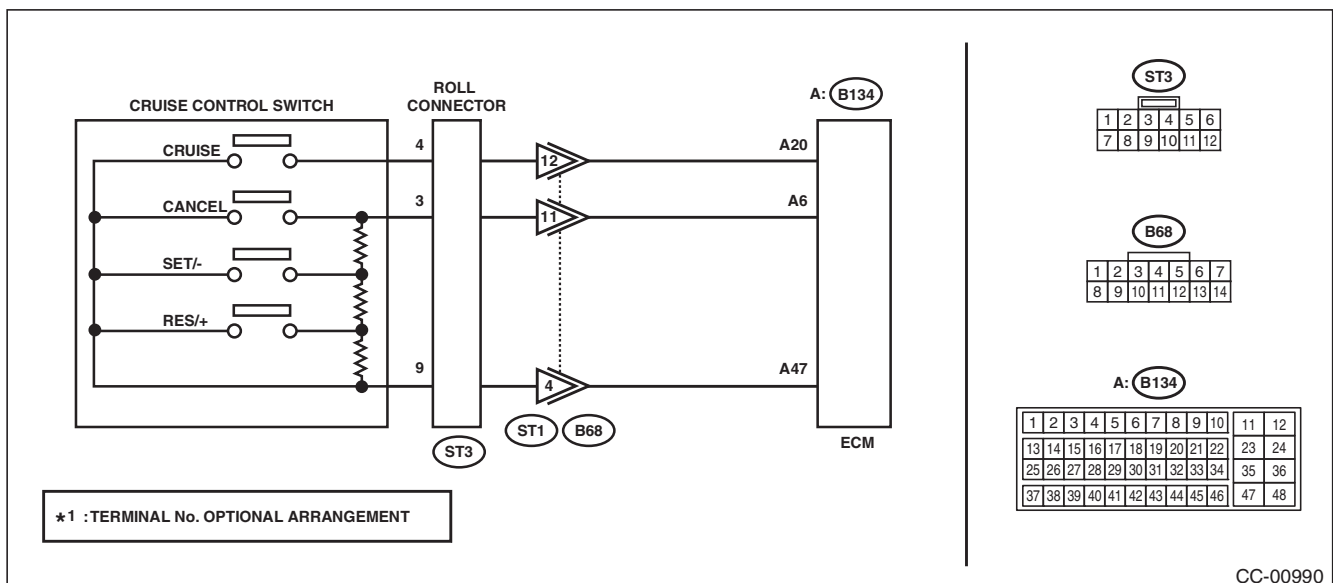
WIRING DIAGRAM:

Cruise control system <Ref. to WI-133, WIRING DIAGRAM, Cruise Control System.>

- Non-turbo model



- Turbo model



Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK CRUISE CONTROL COMMAND SWITCH CIRCUIT. 1) Remove the driver's airbag module. <Ref. to AB-37, REMOVAL, Driver's Airbag Module.> 2) Disconnect the harness connector of cruise control command switch. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal and chassis ground. Connector & terminal (ST3) No. 4 (+) — Chassis ground (-): (ST3) No. 3 (+) — Chassis ground (-):	Is the voltage 5 V or more?	Go to step 2.	Check the harness between cruise control command switch and ECM, and the steering roll connector for open or short circuit, or for poor contact.
2 CHECK CRUISE CONTROL COMMAND SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Remove the cruise control command switch. <Ref. to CC-7, REMOVAL, Cruise Control Command Switch.> 3) Measure the resistance between harness connector terminal and chassis ground. Connector & terminal (ST3) No. 9 — Chassis ground:	Is the resistance less than 10 Ω ?	Go to step 3.	Check for open circuit between cruise control command switch, ECM, and chassis ground and check the ECM.
3 CHECK CRUISE CONTROL COMMAND SWITCH. Measure the resistance between switch terminals when the cruise control command switch is not depressed. Terminals No. 3 — No. 9:	Is the resistance approx. 4 k Ω ?	Go to step 4.	Replace the cruise control command switch. <Ref. to CC-7, Cruise Control Command Switch.>
4 CHECK CANCEL SWITCH. 1) Turn the ignition switch to OFF. 2) Remove the cruise control command switch. <Ref. to CC-7, REMOVAL, Cruise Control Command Switch.> 3) Measure the resistance between switch terminals with the CANCEL switch pressed. Terminals No. 3 — No. 9:	Is the resistance approx. less than 1 Ω when the CANCEL switch is pressed?	Go to step 5.	Replace the cruise control command switch. <Ref. to CC-7, Cruise Control Command Switch.>
5 CHECK SET/- SWITCH. Measure the resistance between the switch terminals with the SET/- switch pressed. Terminals No. 3 — No. 9:	Is the resistance approx. 250 Ω when the SET/- switch is pressed?	Go to step 6.	Replace the cruise control command switch. <Ref. to CC-7, Cruise Control Command Switch.>
6 CHECK RES/+ SWITCH. Measure the resistance between the switch terminals with the RES/+ switch pressed. Terminals No. 3 — No. 9:	Is the resistance approx. 1,500 Ω when the RES/+ switch is pressed?	Replace the ECM. <Ref. to FU(H4DO)-94, Engine Control Module (ECM).>	Replace the cruise control command switch. <Ref. to CC-7, Cruise Control Command Switch.>

Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

B: 12

Detected when brake pedal is depressed or malfunction related to stop light & brake switch occurs.

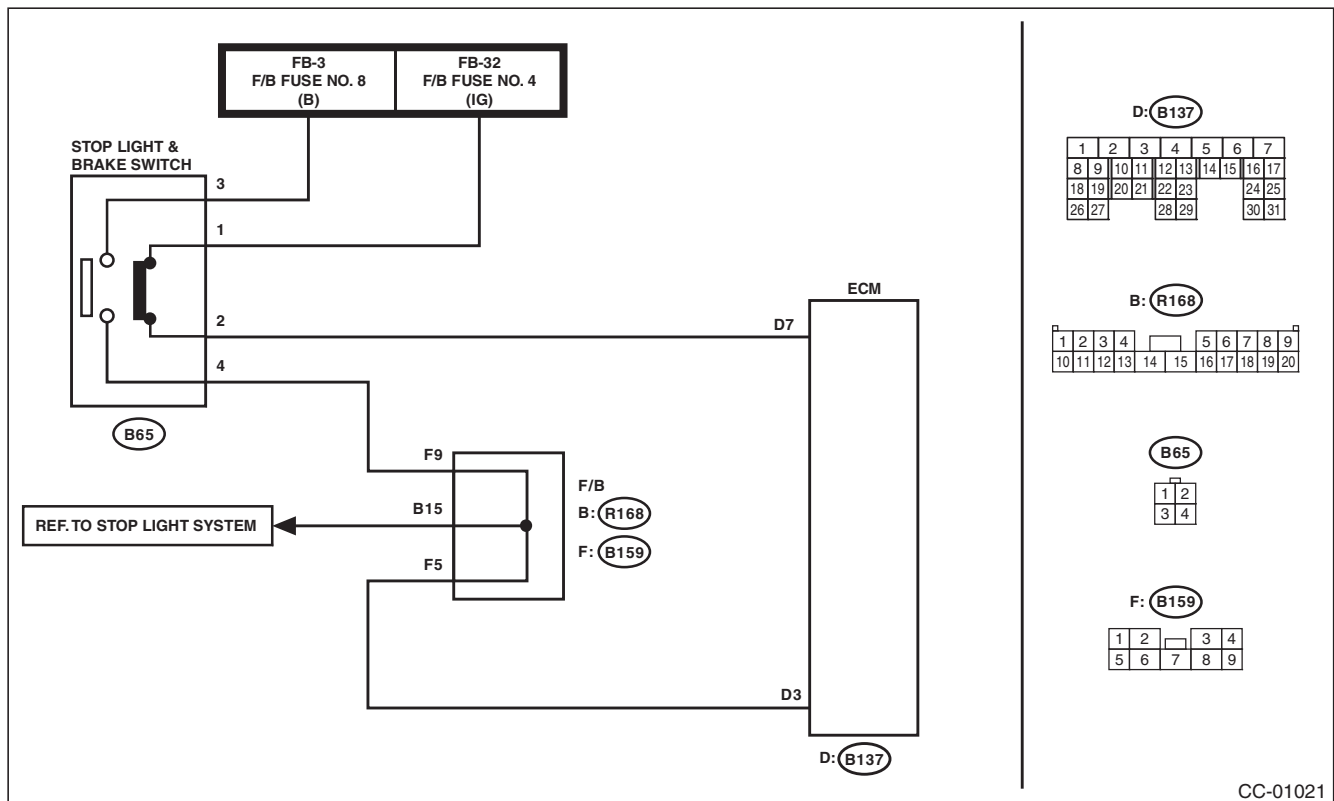
TROUBLE SYMPTOM:

- Cruise control cannot be set.
- Cruise control cannot be released.

WIRING DIAGRAM:

Cruise control system <Ref. to WI-133, WIRING DIAGRAM, Cruise Control System.>

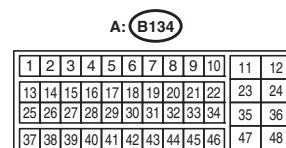
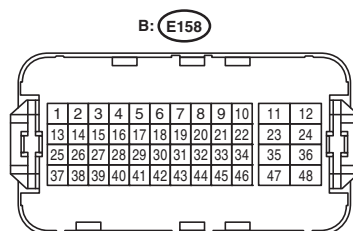
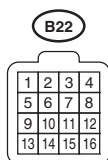
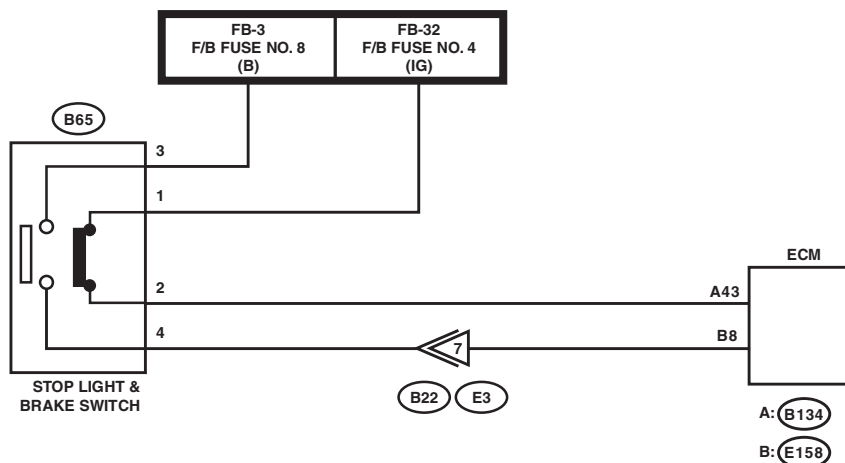
- Non-turbo model



Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

- Turbo model



CC-00992

Step	Check	Yes	No
1	CHECK STOP LIGHT & BRAKE SWITCH. Check the stop light & brake switch. <Ref. to CC-12, Stop Light & Brake Switch.>	Go to step 2.	Replace the stop light & brake switch. Or adjust the installation position.
2	CHECK STOP LIGHT & BRAKE SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the stop light & brake switch harness connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal and chassis ground. Connector & terminal (B65) No. 3 (+) — Chassis ground (-):	Go to step 3.	• Check fuse No. 8 (in fuse & relay box). • Check for open or short in the harness between stop light & brake switch and fuse & relay box.
3	CHECK STOP LIGHT & BRAKE SWITCH CIRCUIT. Measure the voltage between harness connector terminal and chassis ground. Connector & terminal (B65) No. 1 (+) — Chassis ground (-):	Go to step 4.	• Check fuse No. 4 (in fuse & relay box). • Check for open or short in the harness between stop light & brake switch and fuse & relay box.

Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
4 CHECK STOP LIGHT & BRAKE SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the harness connector of ECM. 3) Measure the resistance between ECM harness connector terminal and stop light & brake switch harness connector terminal. Connector & terminal Non-turbo model (B137) No. 3 — (B65) No. 4: (B137) No. 7 — (B65) No. 2: Turbo model (E158) No. 8 — (B65) No. 4: (B134) No. 43 — (B65) No. 2:	Is the resistance less than 10 Ω ?	Replace the ECM. <Ref. to FU(H4DO)-94, Engine Control Module (ECM).>	Repair the harness.

Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

C: 13

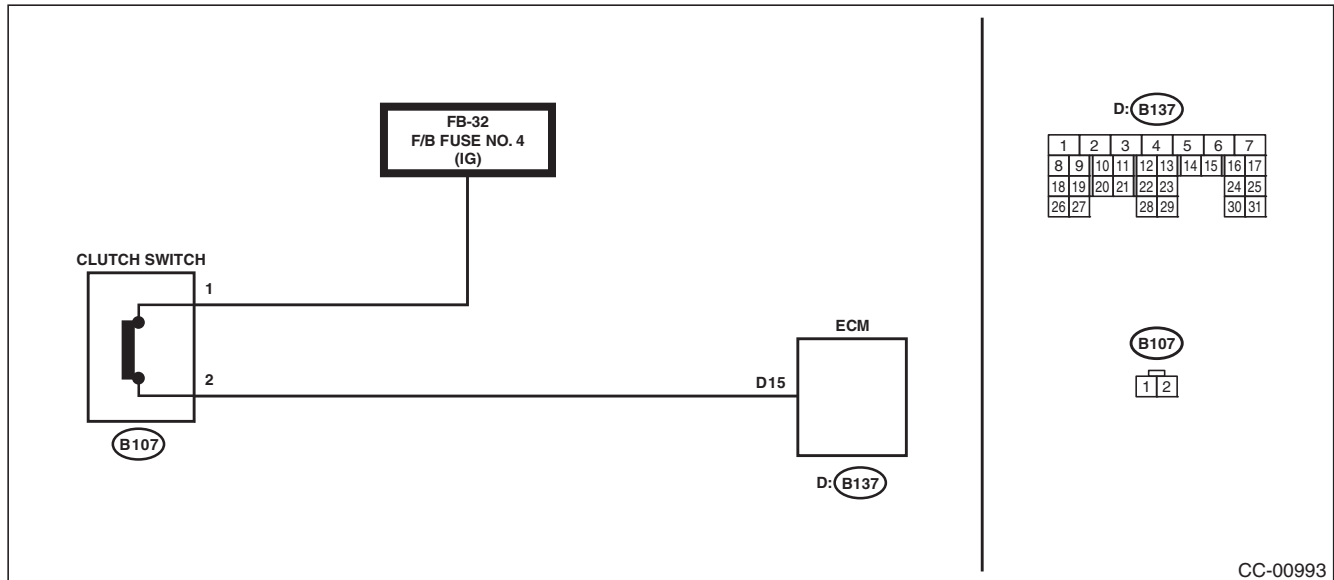
Detected when clutch pedal is depressed or malfunction related to clutch switch occurs.

TROUBLE SYMPTOM:

- Cruise control cannot be set.
- Cruise control cannot be released.

WIRING DIAGRAM:

Cruise control system <Ref. to WI-133, WIRING DIAGRAM, Cruise Control System.>



CC-00993

Step	Check	Yes	No	
1	CHECK CLUTCH SWITCH. Check the clutch switch. <Ref. to CC-13, Clutch Switch.>	Is the clutch switch and installation position OK?	Go to step 2.	Replace the clutch switch. Or adjust the installation position.
2	CHECK CLUTCH SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the clutch switch harness connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal and chassis ground. Connector & terminal (B107) No. 1 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Go to step 3.	• Check fuse No. 4 (in fuse & relay box). • Check open or shorted circuit of harness between clutch switch and fuse & relay box.
3	CHECK CLUTCH SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the harness connector of ECM. 3) Measure the resistance between clutch switch harness connector terminal and ECM harness connector terminal. Connector & terminal (B107) No. 2 — (B137) No. 15:	Is the resistance less than 10 Ω?	Replace the ECM. <Ref. to FU(H4DO)-94, Engine Control Module (ECM).>	Repair the harness.

Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

D: 14

Detected when select lever is set in the neutral position, or when malfunction related to neutral position switch occurs.

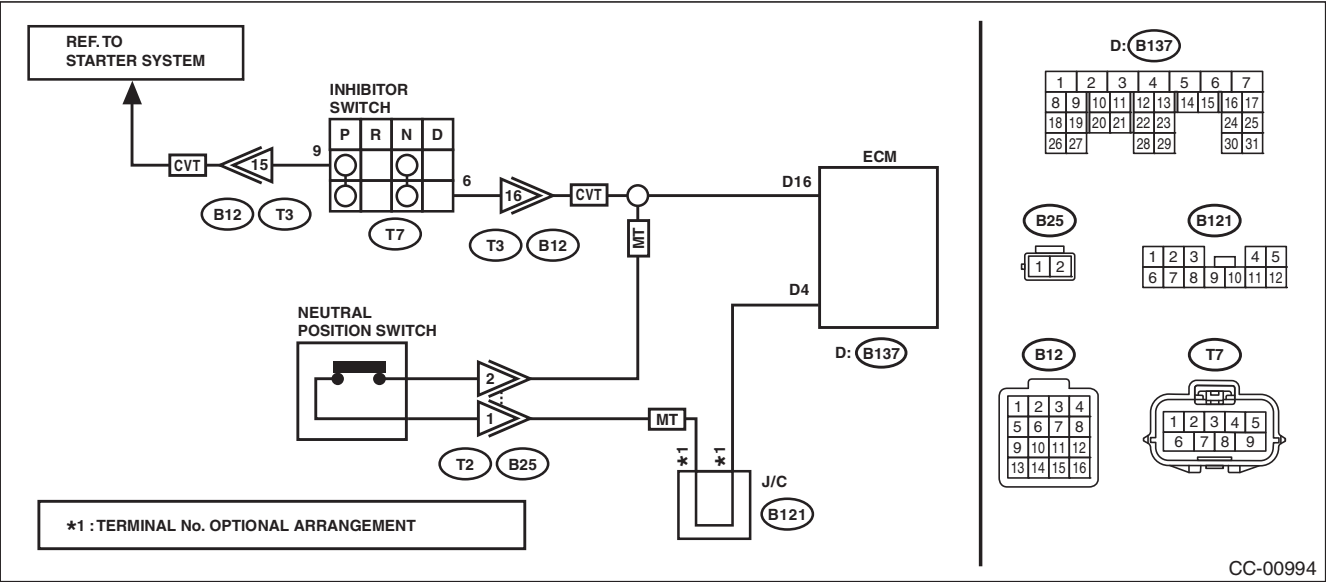
TROUBLE SYMPTOM:

Cruise control cannot be set.

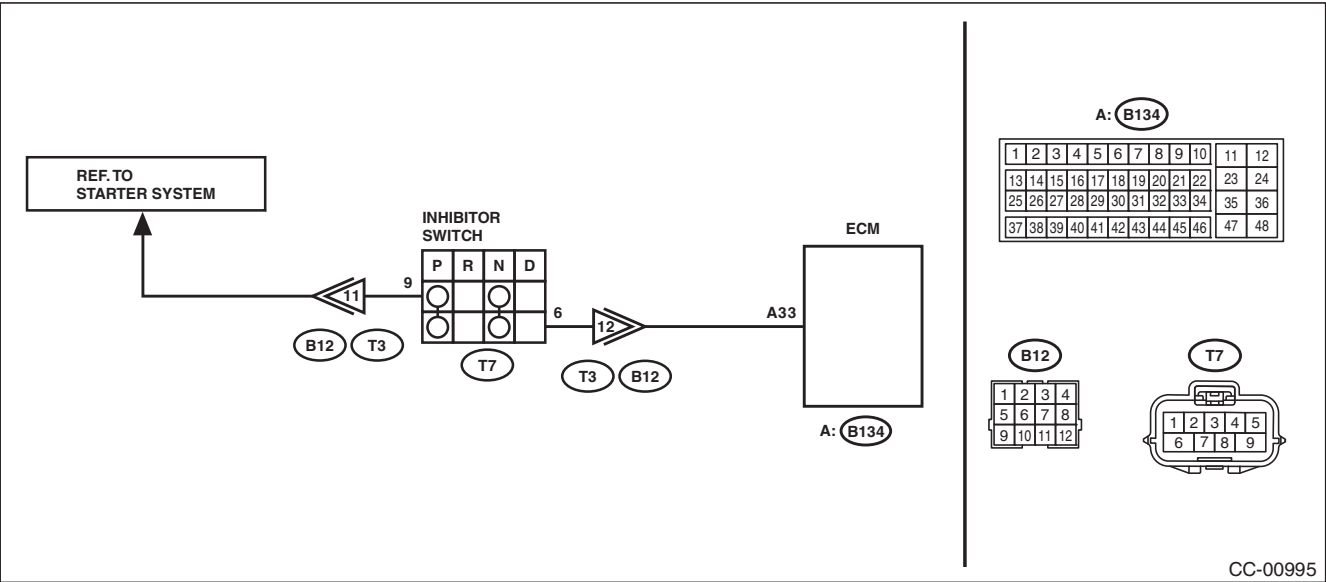
WIRING DIAGRAM:

Cruise control system <Ref. to WI-133, WIRING DIAGRAM, Cruise Control System.>

- Non-turbo model



- Turbo model



Step	Check	Yes	No
1	CHECK TRANSMISSION TYPE.	Is the transmission type CVT?	Go to step 2.
		Go to step 2.	Go to step 5. (MT model)

Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
2 CHECK INHIBITOR SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the inhibitor switch harness connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal and chassis ground. <i>Connector & terminal</i> <i>(T7) No. 6 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 3.	Check for open or short in the harness between inhibitor switch and ECM.
3 CHECK INHIBITOR SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the starter motor harness connector. 3) Measure the resistance between inhibitor switch harness connector terminal and starter motor. <i>Connector & terminal</i> <i>(T7) No. 9 — Starter motor:</i>	Is the resistance less than 10 Ω ?	Go to step 4.	Repair the harness.
4 CHECK INHIBITOR SWITCH. Remove and check the inhibitor switch. <Ref. to CC-14, Inhibitor Switch.>	Is the inhibitor switch working normal?	Replace the ECM. <Ref. to FU(H4DO)-94, Engine Control Module (ECM).>	Replace the inhibitor switch.
5 CHECK NEUTRAL POSITION SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the neutral position switch harness connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal and chassis ground. <i>Connector & terminal</i> <i>(B25) No. 2 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 6.	Check for open or short in the harness between neutral position switch and ECM.
6 CHECK NEUTRAL POSITION SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Measure resistance between harness connector terminal of neutral position switch and chassis ground. <i>Connector & terminal</i> <i>(B25) No. 1 — Chassis ground:</i>	Is the resistance less than 10 Ω ?	Go to step 7.	Repair the harness.
7 CHECK NEUTRAL POSITION SWITCH. Remove and check the neutral position switch. <Ref. to CC-16, Neutral Position Switch.>	Is the neutral position switch OK?	Replace the ECM. <Ref. to FU(H4DO)-94, Engine Control Module (ECM).>	Replace the neutral position switch.

E: 15

Detected when CANCEL switch is pressed or malfunction related to CRUISE switch occurs.

TROUBLE SYMPTOM:

- Cruise control cannot be set. (Cancelled immediately.)
- Cruise control cannot be released.

Refer to DTC 11 for diagnostic procedure.

<Ref. to CC(diag)-15, 11, Diagnostic Procedure with Cancel Code.>

Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

F: 16

Detected when ignition switch is turned to OFF or malfunction related to the ignition switch occurs.

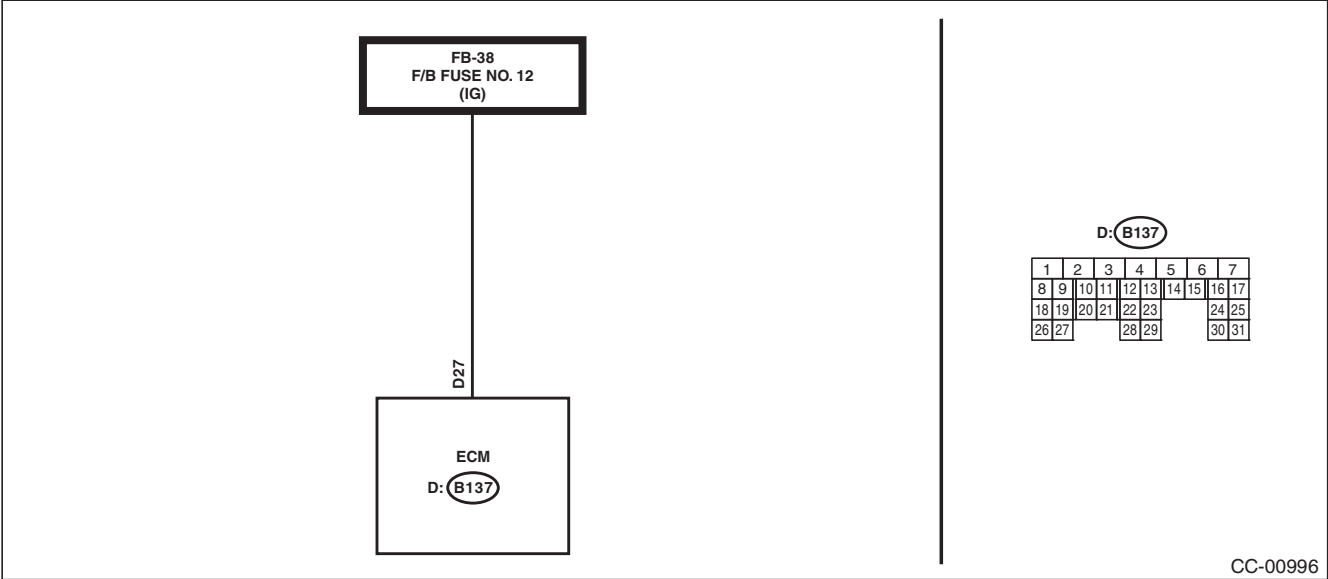
TROUBLE SYMPTOM:

Cruise control cannot be set.

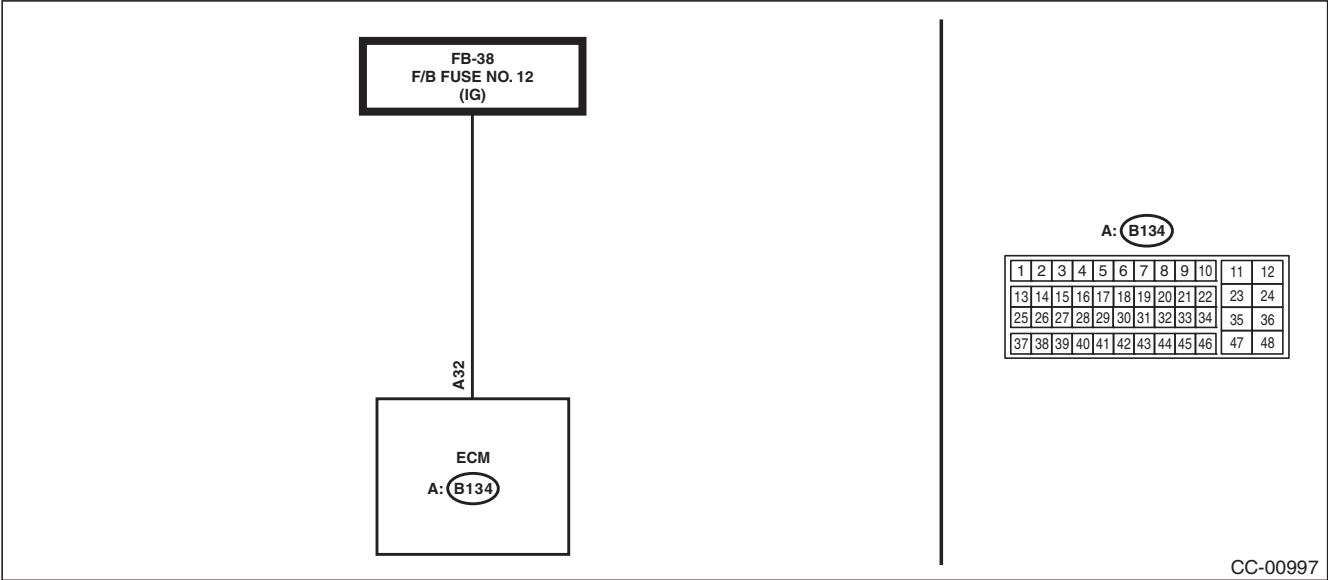
WIRING DIAGRAM:

Cruise control system <Ref. to WI-133, WIRING DIAGRAM, Cruise Control System.>

- Non-turbo model



- Turbo model



Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK IGNITION SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the ECM harness connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal and chassis ground. Connector & terminal Non-turbo model (B137) No. 27 (+) — Chassis ground (–): Turbo model (B134) No. 32 (+) — Chassis ground (–):	Is the voltage 10 V or more?	Check for poor contact of ECM connector.	• Check fuse No. 12 (in fuse & relay box). • Check the harness for open or short circuit between ignition switch and ECM.

G: 21

Cruise control command switch malfunction is detected.

TROUBLE SYMPTOM:

- Cruise control cannot be set. (Cancelled immediately.)
- Cruise control cannot be released.

Refer to DTC 11 for diagnostic procedure.

<Ref. to CC(diag)-15, 11, Diagnostic Procedure with Cancel Code.>



Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

H: 22

Malfunction related to vehicle speed sensor is detected.

DIAGNOSIS:

Open or shorted circuit in vehicle speed sensor system.

TROUBLE SYMPTOM:

Cruise control cannot be set. (Cancelled immediately.)

Step	Check	Yes	No
1 CHECK ABS OR VDC WARNING LIGHT. 1) Turn the ignition switch to ON. 2) After the initial operation of combination meter is completed, check if ABS or VDC warning light continues to illuminate.	Does the warning light continue to illuminate?	Check the VDCCM. <Ref. to VDC(diag)-2, Basic Diagnostic Procedure.>	Go to step 2.
2 CHECK DTC OF LAN COMMUNICATION CIRCUIT. Read the DTC of body integrated unit using Subaru Select Monitor.	Is DTC displayed?	Perform inspection according to DTC.	Replace the ECM. <Ref. to FU(H4DO)-94, Engine Control Module (ECM).>

I: 24

Malfunction in cruise control-related switch is detected.

TROUBLE SYMPTOM:

- Cruise control cannot be set. (Cancelled immediately.)
- Cruise control cannot be released.

Refer to DTC 11 for diagnostic procedure.

<Ref. to CC(diag)-15, 11, Diagnostic Procedure with Cancel Code.>

J: 31

Engine speed signal malfunction is detected.

Abnormal increase of engine speed is detected.

Gear is placed in 1st or Reverse position.

System entered X MODE.

After canceling X MODE, drive the vehicle at the 2nd gear position or higher and perform the cruise setting again. If a cancel code is not detected, it is normal.

K: 32

Detected when the vehicle speed is out of the system controllable range.

Increase vehicle speed high enough to allow the cruise control to function, and then perform setting operation again.

If cancel code is still detected after setting cruise again, perform the diagnosis for DTC 22.

Refer to DTC 22 for diagnostic procedure.

<Ref. to CC(diag)-25, 22, Diagnostic Procedure with Cancel Code.>

L: 34

The vehicle has been driven at a speed higher than set speed for a long time (approximately 10 minutes) during cruise driving.

This cancel code is detected when driving for a long period of time at a speed higher than appropriate for cruise control setting by operating the accelerator pedal.

Perform the cruise control setting operation again. If the cancel code is not detected, it is normal.



Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

M: 35

Detected when it is impossible to perform the vehicle speed feedback.

Set vehicle speed cannot be kept for some reasons (steep uphill, unreleased parking brake, etc.) during cruise driving.

Cancel code is detected when driving condition is not suitable for cruise control.

Perform cruise set operation again after clearing the possible cause.

N: 41

VDC/TCS/EPB is operated.

Vehicle dynamics control (VDC) or TCS/EPB is operated during cruise driving or cruise setting.

<Ref. to VDC(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

O: 43

- The situation that some or all functions for ABS/VDC can not work is detected.

During cruise driving or cruise setting, the situation that some or all functions for ABS/VDC can not work is detected.

<Ref. to VDC(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

- CRUISE indicator does not illuminate even though you pressed the CRUISE switch before starting the engine.

Detected when the CRUISE switch is pressed during the initial diagnosis of ABS/VDC. It is normal if the CRUISE indicator illuminates when you press the CRUISE switch again after starting the engine and confirming that the initial illumination of the ABS/VDC warning light has been ended.

P: 44

Body integrated unit malfunction is detected.

Body integrated unit system malfunction is detected during cruise driving or cruise setting.

<Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

Q: 45

Combination meter malfunction is detected.

Combination meter malfunction is detected during cruise driving or cruise setting.

<Ref. to LAN(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

R: 49

Automatic transmission malfunction is detected.

Automatic transmission malfunction is detected during cruise driving or cruise control setting.

<Ref. to CVT(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

S: 61

Malfunction in the stop light & brake switch is detected.

TROUBLE SYMPTOM:

- Cruise control cannot be set.
- Cruise control cannot be released.

Refer to DTC 12 for diagnostic procedure.

<Ref. to CC(diag)-17, 12, Diagnostic Procedure with Cancel Code.>

T: 62

Neutral position switch malfunction is detected.

TROUBLE SYMPTOM:

Cruise control cannot be set.

Refer to DTC 14 for diagnostic procedure.

<Ref. to CC(diag)-21, 14, Diagnostic Procedure with Cancel Code.>

Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

U: 63

Malfunction of vehicle speed signal variation is detected.

TROUBLE SYMPTOM:

Cruise control cannot be set. (Cancelled immediately.)

Refer to DTC 22 for diagnostic procedure.

<Ref. to CC(diag)-25, 22, Diagnostic Procedure with Cancel Code.>

V: 64

Malfunction related to engine is detected.

Refer to the Engine Diagnostic Procedure for diagnostic procedure.

<Ref. to EN(H4DO)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

W: 65

Cruise control command switch malfunction is detected.

While the command switch is pressed ON for a long time (approximately two minutes), stuck ON condition is detected.

TROUBLE SYMPTOM:

- Cruise control cannot be set. (Cancelled immediately.)
- Cruise control cannot be released.

Refer to DTC 11 for diagnostic procedure.

<Ref. to CC(diag)-15, 11, Diagnostic Procedure with Cancel Code.>

X: 66

Cruise control calculation malfunction is detected.

Refer to the Engine Diagnostic Procedure for diagnostic procedure.

<Ref. to EN(H4DO)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>



Diagnostic Procedure with Cancel Code

CRUISE CONTROL SYSTEM (DIAGNOSTICS)
