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CRUISE CONTROL SYSTEM (DIAGNOSTICS) H4DOTC (non-STi)

Basic Diagnostic Procedure

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

1. Basic Diagnostic Procedure

A: PROCEDURE

	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 5.	Go to step 3.
3	CHECK CRUISE CONTROL MAIN SWITCH OPERATION. Check cruise control main switch operation. (Ensure the cruise indicator light illuminates.)	Is the cruise control main switch turned on? (Does the cruise indicator light illuminate?)	Go to step 4.	Go to symptom 1. <Ref. to CC(ETC)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
4	CHECK CRUISE CONTROL SET OPERATION. Check the cruise control set operation.	Can the cruise control be set while driving at 40 km/h (25 MPH) or faster?	Go to step 6.	Go to step 5.
5	PERFORM CRUISE CONTROL CANCEL CONDITIONS DIAGNOSIS. Perform the cruise cancel conditions diagnosis.	Is DTC displayed?	Go to "List of Diagnostic Trouble Code (DTC)". <Ref. to CC(ETC)(diag)-17, List of Diagnostic Trouble Code (DTC).>	Go to symptom 2. <Ref. to CC(ETC)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
6	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 7.	Go to symptom 3. <Ref. to CC(ETC)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
7	CHECK RESUME/ACCEL OPERATION. Check the RESUME/ACCEL switch operation.	Does the vehicle speed increase or return to set speed after RESUME/ACCEL switch has been pressed?	Go to step 8.	Go to symptom 4. <Ref. to CC(ETC)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
8	CHECK SET/COAST OPERATION. Check the command switch operation.	Does the vehicle speed decrease after the command switch has been pressed?	Go to step 9.	Go to symptom 5. <Ref. to CC(ETC)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>

Basic Diagnostic Procedure

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
9 CHECK CANCEL OPERATION. Check the CANCEL switch operation.	Is the cruise control released after CANCEL switch has been pressed?	Go to step 10 .	Go to symptom 6. <Ref. to CC(ETC)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
10 CHECK CRUISE CONTROL RELEASE OPERATION. Check the cruise control release operation.	Is the cruise control released after brake pedal has been depressed?	<ul style="list-style-type: none"> • Go to step 11. (MT model) • Finish the diagnosis. (AT model) 	Go to symptom 7. <Ref. to CC(ETC)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
11 CHECK CRUISE CONTROL RELEASE OPERATION. Check the cruise control release operation.	Does the cruise control disengage after the clutch pedal has been pressed? (MT model)	Go to step 12 .	Go to symptom 8. <Ref. to CC(ETC)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>
12 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 symptom 9. <Ref. to CC(ETC)(diag)-11, DIAGNOSTIC PROCEDURE WITH PHENOMENON, Diagnostics with Phenomenon.>

General Description

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

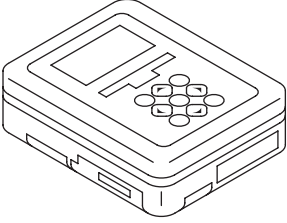
2. General Description

A: CAUTION

- All airbag system wiring harnesses and connectors are yellow. Do not use the electrical test equipment on these 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
 ST1B020XU0	1B020XU0	SUBARU SELECT MONITOR KIT	Used for diagnosis of the electrical system.

2. GENERAL TOOL

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

C: INSPECTION

1. BATTERY

Measure the battery voltage and specific gravity of electrolyte.

Standard voltage:

12 V or more

Specific gravity:

1.260 or more

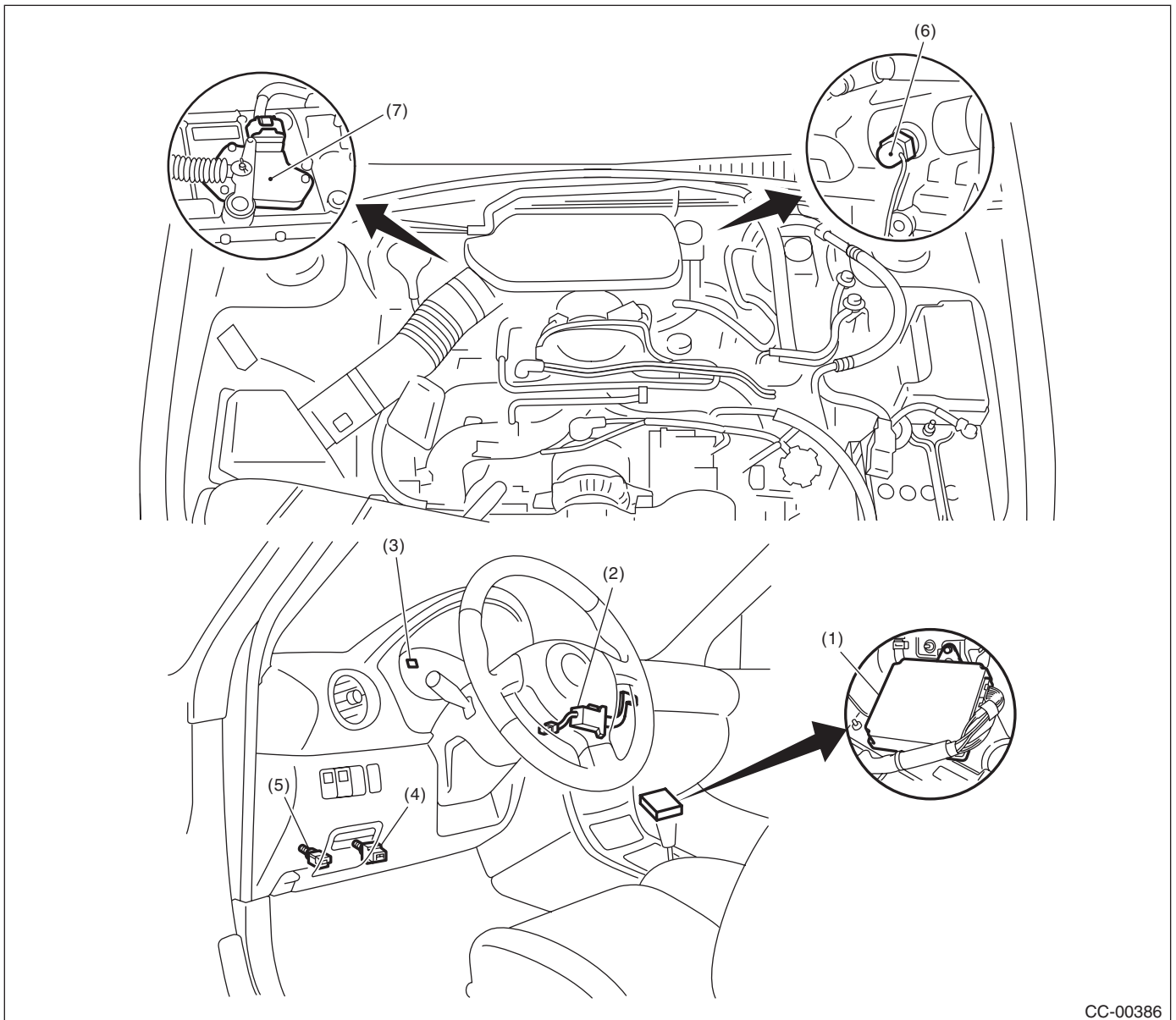
Electrical Component Location

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

3. Electrical Component Location

A: LOCATION

1. NON-TURBO MODE AND TURBO MODEL (EXCEPT FOR STI MODEL)



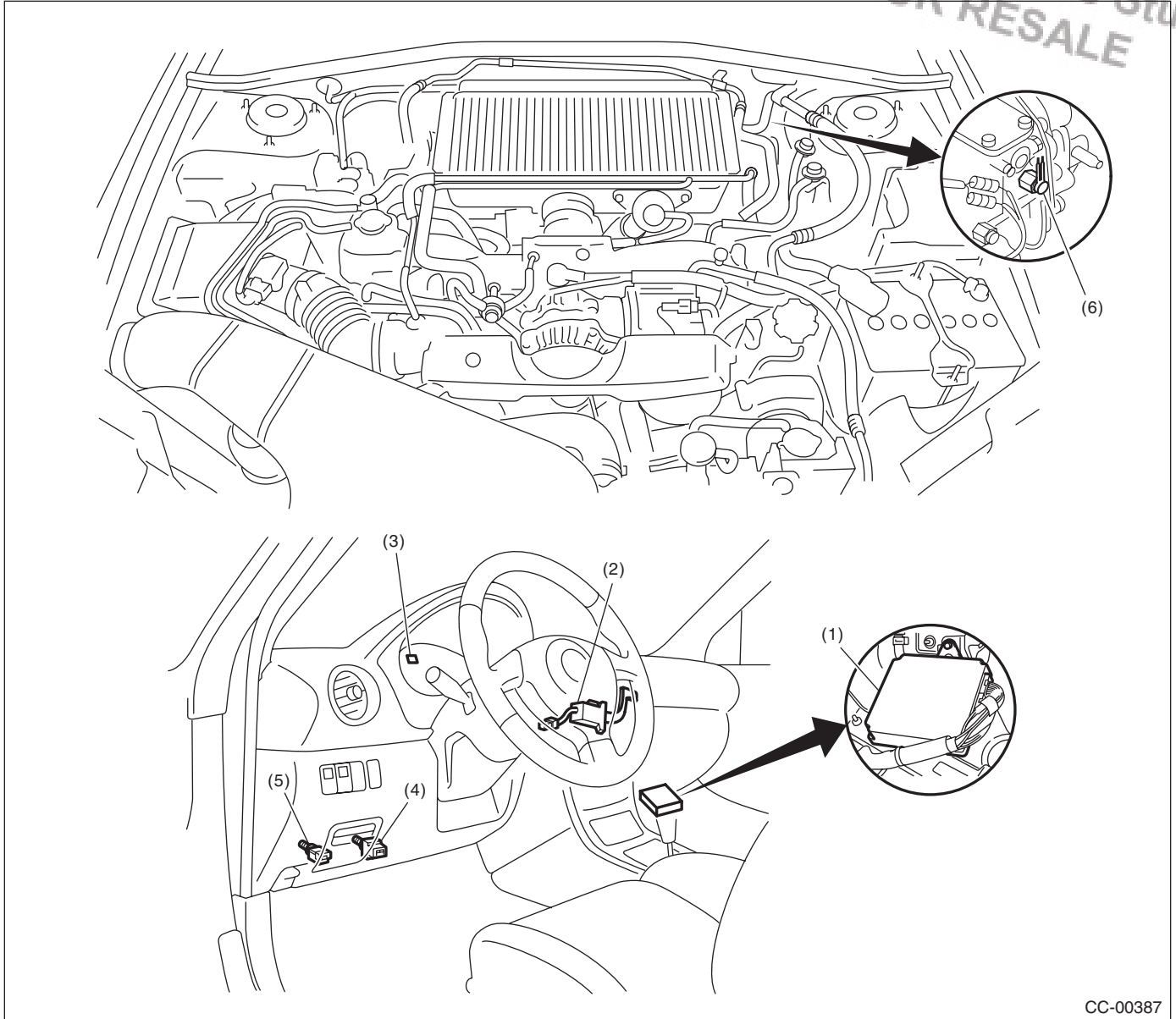
CC-00386

- | | | |
|---|---|--|
| (1) Engine control module (ECM) | (3) Cruise indicator light and cruise set indicator light | (5) Clutch switch (MT model) |
| (2) Cruise control command switch (with built-in main switch) | (4) Stop light and brake switch | (6) Neutral position switch (MT model) |
| | | (7) Inhibitor switch (AT model) |

Electrical Component Location

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

2. STI MODEL



CC-00387

- | | | |
|---|---|-----------------------------|
| (1) Engine control module (ECM) | (3) Cruise indicator light and cruise set indicator light | (5) Clutch switch |
| (2) Cruise control command switch (with built-in main switch) | (4) Stop light and brake switch | (6) Neutral position switch |

Engine Control Module (ECM) I/O Signal

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

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

A: ELECTRICAL SPECIFICATION

TO A: **B134**

7	6	5	4	3	2	1			
17	16	15	14	13	12	11	10	9	8
27	26	25	24	23	22	21	20	19	18
34	33				32	31	30	29	28

TO B: **B135**

7	6	5	4	3		2	1				
19	18	17	16	15	14	13	12	11	10	9	8
27	26		25	24		23	22	21	20		
35	34			33	32			31	30	29	28

TO C: **B136**

6	5		4	3	2	1				
16	15	14	13	12	11	10	9	8	7	
27	26	25	24	23	22	21	20	19	18	17
35	34	33	32	31				30	29	28

TO D: **B137**

7	6	5	4	3	2	1					
17	16	15	14	13	12	11	10	9	8		
25	24			23	22	21	20	19	18		
31	30			29	28					27	26

CC-00197

Engine Control Module (ECM) I/O Signal

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Contents		Terminal No.	Measurement condition and I/O signal (Idling with ignition ON: Except cruise set light)
Clutch switch		C25	<ul style="list-style-type: none"> Battery voltage is detected when the clutch pedal is released. "0 V" is present when brake pedal is depressed.
Cruise set indicator light		B3	(While driving at 40 km/h (25 MPH) or more with the main switch pressed.) <ul style="list-style-type: none"> Battery voltage is detected when the set switch is turned to OFF. "0 V" is detected when the set switch is turned to ON.
Cruise indicator light		B6	<ul style="list-style-type: none"> Battery voltage is detected when the main switch is turned OFF. "0 V" is detected when the main switch is turned ON.
Main power supply	VB (CONTROL 1)	A7	Battery voltage is detected.
	VB (CONTROL 2)	B2	
Vehicle speed signal		Non-turbo model: C12 Turbo model: C13	Lift up the vehicle until all four wheels are raised off ground, and then rotate any wheel manually. Approx. "5 V" and "0 V" pulse signals are alternately input to ECM.
SET/COAST switch		B24	<ul style="list-style-type: none"> Battery voltage is detected when cruise control command switch is turned to SET/COAST position. Battery voltage is detected when cruise control command switch is turned to the CANCEL position.
RES/ACC switch		B13	<ul style="list-style-type: none"> Battery voltage is detected when cruise control command switch is turned to the RES/ACC position. Battery voltage is detected when cruise control command switch is turned to the CANCEL position.
Brake switch 1 (Brake switch)		B20	<ul style="list-style-type: none"> Battery voltage is detected when the brake pedal is released. "0 V" is detected when the brake pedal is depressed.
Brake switch 2 (Stop light switch)		B28	<ul style="list-style-type: none"> Battery voltage is detected when the brake pedal is depressed. "0 V" is detected when the brake pedal is released.
Cruise control main switch		B12	<ul style="list-style-type: none"> Battery voltage is detected when the cruise control main switch is turned ON. "0 V" is detected when the cruise control main switch is turned to OFF.
Ground	GND (CONTROL 1)	C6	—
	GND (CONTROL 2)		
Ignition switch		Non-turbo model: B27 Turbo model: B19	<ul style="list-style-type: none"> Battery voltage is detected when the ignition switch is turned ON. "0 V" is detected when the ignition switch is turned OFF.
Neutral position switch (MT model)		C31	<ul style="list-style-type: none"> Battery voltage is present when the shift lever is set in any position other than neutral. "0 V" is detected when the shift lever is in neutral position.
Neutral signal (AT model)		C31	<ul style="list-style-type: none"> Battery voltage is present when the shift lever is set in any position other than "P" or "N". "0 V" is detected when the shift lever is in "P" or "N" position.

B: WIRING DIAGRAM

<Ref. to WI-103, WIRING DIAGRAM, Cruise Control System.>

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 condition (Code No.) which occurred during driving. When there are multiple cancel conditions (Code No.), 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, the memory content by the diagnosis of faulty switches relating to the system and cruise control is retained as the fault history (memory code) after the ignition switch is turned 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.

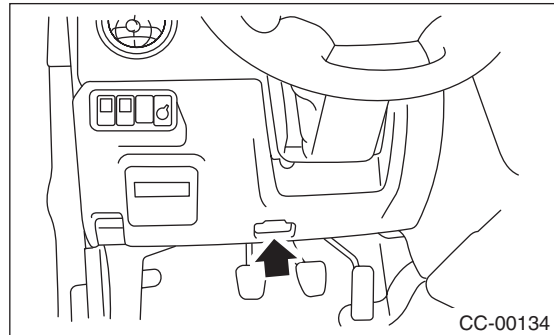
(1) Vehicle cannot be driven at cruise speed when the problem occurs in the cruise control system or relevant circuits.

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

2. CRUISE CONTROL CANCEL CONDITIONS DIAGNOSIS

- 1) Prepare the Subaru Select Monitor kit.
- 2) Connect the diagnosis cable to the Subaru Select Monitor.
- 3) Connect the Subaru Select Monitor to the data link connector.

(1) Data link connector is located in the lower portion of the instrument panel (on the driver's side).



(2) Connect the diagnosis cable to the data link connector.

- 4) Start the engine and turn the cruise control main switch to ON.
- 5) Connect the Subaru Select Monitor.
- 6) Select {2. Each System Check} in the «Main Menu» screen. On the system selection display screen, select the {Engine Control System}. Select [OK] after the information of engine type is displayed.
- 7) 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.
- DTC will be also displayed when 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.

Subaru Select Monitor

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

8) When the set speed is canceled 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 {Check Cancel Code} on the engine malfunction diagnosis screen will display the DTC on the select monitor display.

NOTE:

There are {Latest Code} and {Memory Code} in DTC. The latest code recognized during current test drive is displayed in {Latest Code} and those recognized during past test drives are displayed in {Memory Code}. DTCs by the diagnosis of faulty switches relating to the system and cruise control are displayed in {Memory Code}.

- 9) Perform Engine DTC Clear Memory operation.
- <Ref. to EN(H4SO)(diag)-47, OPERATION, Clear Memory Mode.>
 - <Ref. to EN(H4DOTC)(diag)-53, OPERATION, Clear Memory Mode.>
 - <Ref. to EN(STI)(diag)-48, OPERATION, Clear Memory Mode.>

DTCs of 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.

3. REAL-TIME DIAGNOSIS

- 1) Connect the Subaru Select Monitor.
- 2) Turn the ignition switch and cruise control main switch to ON.
- 3) Connect the Subaru Select Monitor.
- 4) Select {2. Each System Check} in the «Main Menu» screen.
- 5) Select {Engine Control System} in the «System Selection» screen.
- 6) Select [OK] after the information of engine type has been displayed.
- 7) Select {Current Data Display & Save} in the «Engine Control System Diagnosis» screen.

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

- Depress and release the brake pedal. (Stop light switch and brake switch are turned ON.)
- Turn the «SET/COAST» switch to ON.
- Turn the «RES/ACC» switch to ON.
- Turn the «CANCEL» switch to ON. (The «SET/COAST» switch and the «RES/ACC» turn to ON simultaneously.)
- Depress or release the clutch pedal. (MT model)
- Place the shift lever in neutral position. (MT model)
- Move the select lever to “P” or “N” range. (AT model)

NOTE:

- For details concerning the operation procedures, refer to the “SUBARU SELECT MONITOR OPERATION MANUAL”.
- For the DTC, refer to the List of Diagnostic Trouble Code (DTC). <Ref. to CC(ETC)(diag)-17, List of Diagnostic Trouble Code (DTC).>

Diagnostics with Phenomenon

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

6. Diagnostics with Phenomenon

A: DIAGNOSTIC PROCEDURE WITH PHENOMENON

Symptoms		Repair area	Reference
1	Cruise control main switch is not turned to ON. (Cruise indicator light does not illuminate.)	(1) Check the cruise indicator light.	<Ref. to CC(ETC)(diag)-13, CHECK CRUISE INDICATOR LIGHT, Diagnostics with Phenomenon.>
		(2) Check the cruise control command switch.	<Ref. to CC(ETC)(diag)-19, DTC 11, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-28, DTC 15, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-29, DTC 21, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 24, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-33, DTC 65, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
2	Cruise control cannot be set.	(1) Check the cruise control command switch.	<Ref. to CC(ETC)(diag)-19, DTC 11, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-28, DTC 15, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-29, DTC 21, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 24, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-33, DTC 65, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
		(2) Check stop light switch and brake switch.	<Ref. to CC(ETC)(diag)-21, DTC 12, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 25, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 61, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
		(3) Check clutch switch.	<Ref. to CC(ETC)(diag)-23, DTC 13, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
		(4) Check the neutral switch.	<Ref. to CC(ETC)(diag)-25, DTC 14, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-33, DTC 62, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
		(5) Check vehicle speed sensor.	<Ref. to CC(ETC)(diag)-30, DTC 22, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 32, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-33, DTC 63, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
3	Vehicle speed is not held within set speed ± 3 km/h (± 2 MPH).	Inspect the vehicle speed sensor.	<Ref. to CC(ETC)(diag)-30, DTC 22, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 32, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-33, DTC 63, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostics with Phenomenon

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

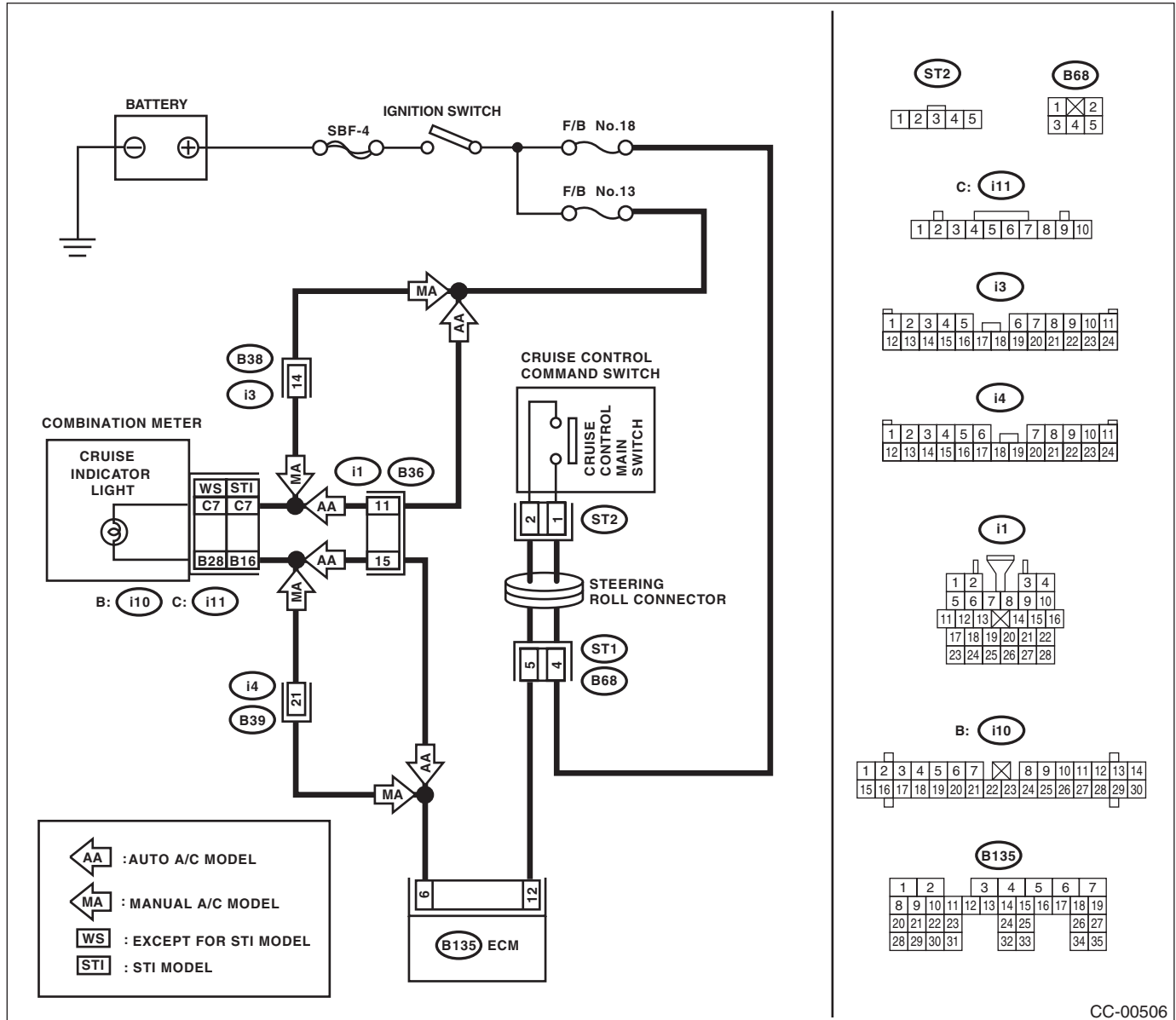
Symptoms		Repair area	Reference
4	Vehicle speed does not increase or does not return to set speed after RESUME/ACCEL switch has been pressed.	Check the RESUME/ACCEL switch.	<Ref. to CC(ETC)(diag)-19, DTC 11, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-28, DTC 15, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-29, DTC 21, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 24, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-33, DTC 65, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
5	Vehicle speed does not decrease after SET/COAST switch has been pressed.	Check the SET/COAST switch.	<Ref. to CC(ETC)(diag)-19, DTC 11, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-28, DTC 15, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-29, DTC 21, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 24, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-33, DTC 65, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
6	Cruise control is not released after CANCEL switch has been pressed.	Check the CANCEL switch.	<Ref. to CC(ETC)(diag)-19, DTC 11, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-28, DTC 15, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-29, DTC 21, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 24, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-33, DTC 65, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
7	Cruise control is not released after brake pedal has been depressed.	Check the stop light switch and brake switch.	<Ref. to CC(ETC)(diag)-21, DTC 12, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 25, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-32, DTC 61, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
8	Cruise control is not released after clutch pedal has been depressed.	Check the clutch switch.	<Ref. to CC(ETC)(diag)-23, DTC 13, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
9	Cruise control is not released after shifting to the neutral position.	Check the neutral switch.	<Ref. to CC(ETC)(diag)-25, DTC 14, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> <Ref. to CC(ETC)(diag)-33, DTC 62, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

B: CHECK CRUISE INDICATOR LIGHT

TROUBLE SYMPTOM:

Cruise control can be set, but the cruise indicator light does not illuminate.

WIRING DIAGRAM:



CC-00506

Diagnostics with Phenomenon

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

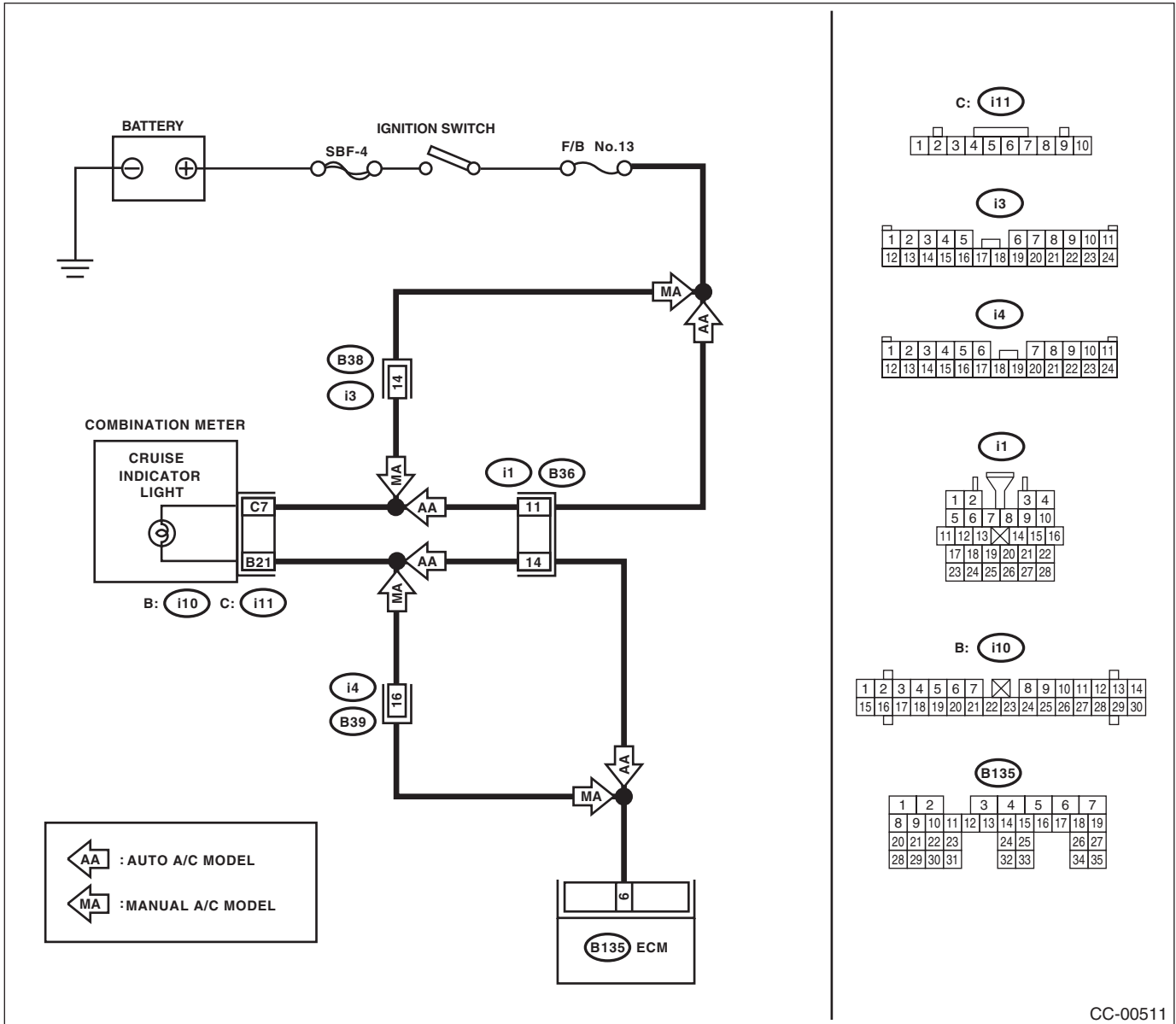
Step	Check	Yes	No
<p>1 CHECK CRUISE INDICATOR LIGHT CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the harness connector of the combination meter. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal and chassis ground. Connector & terminal <i>(i11) No. 7 (+) — Chassis ground (-):</i></p>	<p>Is the voltage 10 V or more?</p>	<p>Go to step 2.</p>	<p>• Check fuse No. 13 (in fuse & relay box). • Check the harness for open or short circuit between combination meter and fuse & relay box.</p>
<p>2 CHECK CRUISE INDICATOR LIGHT 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 combination meter harness connector terminal. Connector & terminal Except for STI model: <i>(B135) No. 6 — (i10) No. 28:</i> STI model: <i>(B135) No. 6 — (i10) No. 16:</i></p>	<p>Is the resistance less than 10 Ω?</p>	<p>Go to step 3.</p>	<p>Repair the harness.</p>
<p>3 CHECK CRUISE INDICATOR LIGHT CIRCUIT. 1) Turn the ignition switch to ON. 2) Connect the ECM harness connector terminal to ground using a lead wire. Connector & terminal <i>(B135) No. 6 — Chassis ground:</i></p>	<p>Does the cruise indicator light illuminate?</p>	<p>Check poor contact of ECM connector.</p>	<p>Replace the inner meter main assembly.</p>

C: CHECK CRUISE SET INDICATOR LIGHT

TROUBLE SYMPTOM:

Cruise control can be set, but the cruise set indicator light does not illuminate.

WIRING DIAGRAM:



CC-00511

Diagnostics with Phenomenon

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK CRUISE SET INDICATOR LIGHT CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the harness connector of the combination meter. 3) Measure the voltage between harness connector terminal and chassis ground. Connector & terminal (i11) No. 7 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Go to step 2.	<ul style="list-style-type: none"> • Check fuse No. 13 (in fuse & relay box). • Check open or shorted circuit of harness between combination meter and fuse & relay box.
2	CHECK CRUISE SET INDICATOR LIGHT 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 combination meter harness connector terminal. Connector & terminal (i10) No. 21 — (B135) No. 3:	Is the resistance less than 10 Ω?	Go to step 3.	Repair the harness.
3	CHECK CRUISE SET INDICATOR LIGHT CIRCUIT. 1) Turn the ignition switch to ON. 2) Connect the ECM harness connector terminal to ground using a lead wire. Connector & terminal (B135) No. 3 — Chassis ground:	Does the cruise set indicator light illuminate?	Check poor contact of ECM connector.	Replace the inner meter main assembly.

List of Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

7. List of Diagnostic Trouble Code (DTC)

A: LIST

DTC	Item	Contents of diagnosis	Reference
11	Main switch	Main switch of cruise control command switch is turned to OFF, and then the cruise control is released.	This DTC is displayed without operating the main switch. <Ref. to CC(ETC)(diag)-19, DTC 11, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
12	Stop light and 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(ETC)(diag)-21, DTC 12, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
13	Clutch switch	Clutch switch is turned to ON, and then the cruise control is released.	This DTC is displayed without depressing the clutch pedal. <Ref. to CC(ETC)(diag)-23, DTC 13, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
14	Neutral switch	Neutral switch is turned to ON, and then the cruise control is released.	This DTC is displayed without shifting to neutral position. <Ref. to CC(ETC)(diag)-25, DTC 14, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
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(ETC)(diag)-28, DTC 15, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
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(ETC)(diag)-28, DTC 16, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
21	Cruise control switch malfunction when ignition switch is turned to ON	When the ignition switch is turned to ON, each switch of cruise control command switch is already turned to ON.	This DTC is displayed when the ignition switch is turned to ON without operating the cruise control command switch. <Ref. to CC(ETC)(diag)-29, DTC 21, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
22	Vehicle Speed Variation Malfunction	Malfunction of vehicle speed signal variation is detected.	<Ref. to CC(ETC)(diag)-30, DTC 22, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

List of Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

DTC	Item	Contents of diagnosis	Reference
24	Cruise Control Related Switch Malfunction	Open circuit of cruise control switch is detected during cruise driving. (The system is judged as model without cruise control.)	<Ref. to CC(ETC)(diag)-32, DTC 24, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
25	Brake Switch Input Circuit Malfunction	Malfunction of brake switch input circuit in ECM is detected.	<Ref. to CC(ETC)(diag)-32, DTC 25, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
31	Engine speed signal	<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 higher. <Ref. to CC(ETC)(diag)-32, DTC 31, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
32	Out of vehicle speed range of cruise control operation	<ul style="list-style-type: none"> Vehicle speed goes out of 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(ETC)(diag)-32, DTC 32, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
34	Prohibition when accelerator position is continued to be large	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(ETC)(diag)-32, DTC 34, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
35	Prohibition when vehicle speed feedback is impossible	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(ETC)(diag)-32, DTC 35, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
43	ABS/VDC malfunction	ABS system malfunction is detected during cruise driving or cruise setting.	<Ref. to CC(ETC)(diag)-32, DTC 43, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
61	Brake switch malfunction	Malfunction in the stop light switch or brake switch is detected.	<Ref. to CC(ETC)(diag)-32, DTC 61, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
62	Neutral position switch malfunction	Neutral position switch malfunction is detected.	<Ref. to CC(ETC)(diag)-33, DTC 62, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
63	Vehicle speed variation malfunction 1	Malfunction of vehicle speed signal variation is detected.	<Ref. to CC(ETC)(diag)-33, DTC 63, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
64	Engine sensor related sensor malfunction 1	Malfunction related to engine is detected.	<Ref. to CC(ETC)(diag)-33, DTC 64, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
65	Cruise control related switch malfunction 1	Cruise control command switch malfunction is detected. (While the switch is pressed ON for a long time (approximately two minutes), stuck ON condition is detected.)	<Ref. to CC(ETC)(diag)-33, DTC 65, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
66	Cruise control computational malfunction	Cruise control calculation (microcomputer) malfunction is detected.	<Ref. to CC(ETC)(diag)-33, DTC 66, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

8. Diagnostic Procedure with Diagnostic Trouble Code (DTC)

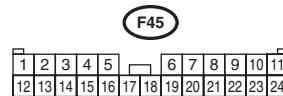
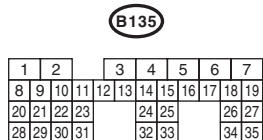
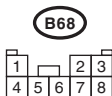
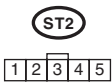
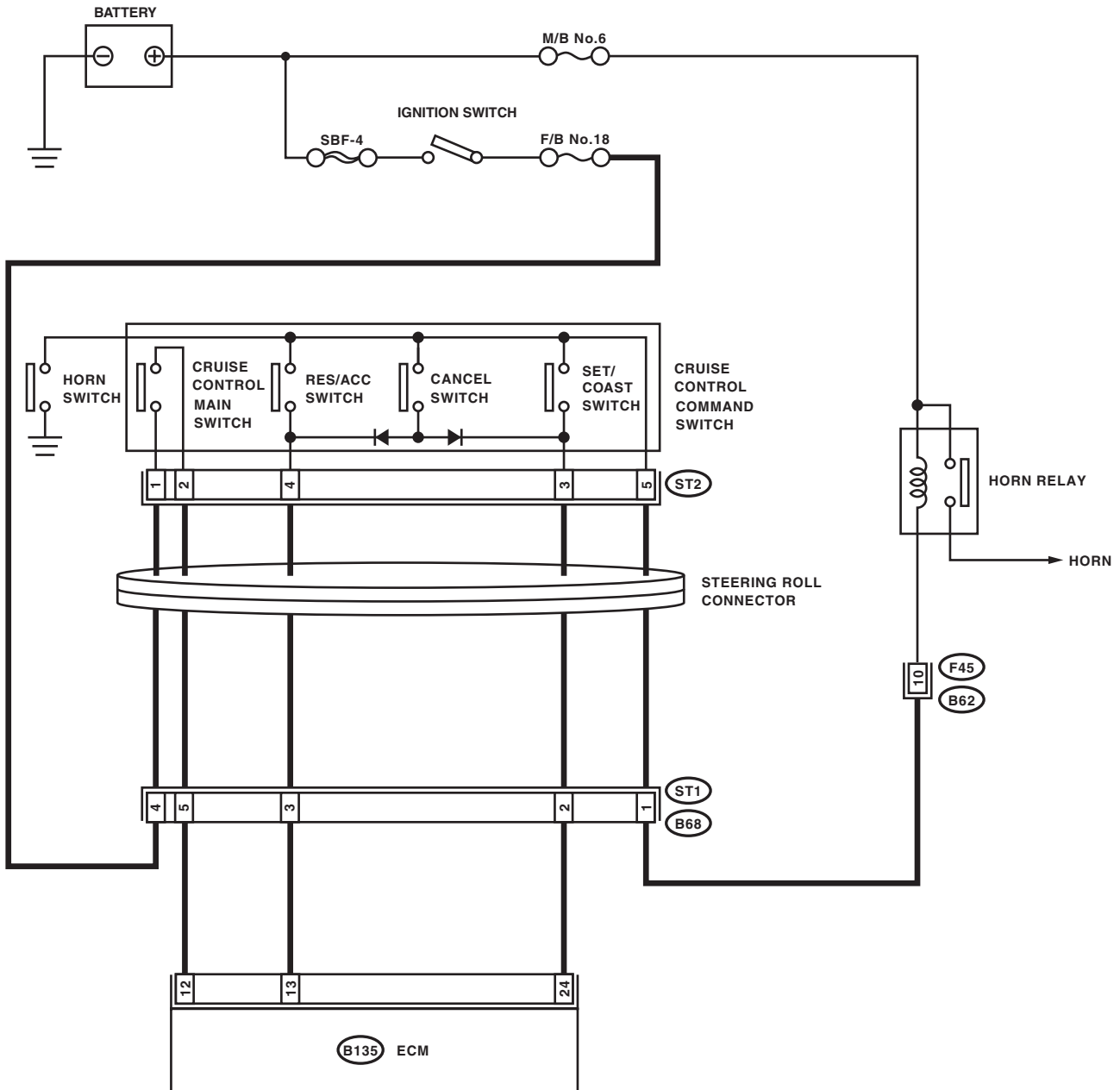
A: DTC 11

The malfunction is detected when the main switch is pressed or problem relating to the main switch occurs.

TROUBLE SYMPTOM:

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

WIRING DIAGRAM:



CC-00500

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK CRUISE CONTROL MAIN SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the harness connector of ECM. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal and chassis ground when cruise control main switch is pressed and not pressed. <i>Connector & terminal</i> <i>(B135) No. 12 (+) — Chassis ground (-):</i>	Is the voltage 0 V when cruise control main switch is not pressed? Is the voltage 10 V or more when cruise control main switch is pressed?	Go to step 2.	<ul style="list-style-type: none"> • Check fuse No. 18 (in fuse & relay box). • Check open or shorted circuit of harness between cruise control command switch and fuse & relay box. If no malfunction is found after checking above, Go to step 6.
2 CHECK SET/COAST SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the harness connector of ECM. 3) Measure the voltage between the harness connector terminal and chassis ground when SET/COAST switch is pressed and not pressed. <i>Connector & terminal</i> <i>(B135) No. 24 (+) — Chassis ground (-):</i>	Is the voltage 0 V when SET/COAST switch is not pressed? Is the voltage 10 V or more when SET/COAST switch is pressed?	Go to step 3.	Go to step 5.
3 CHECK RES/ACC SWITCH CIRCUIT. Measure the voltage between harness connector terminal and chassis ground when RES/ACC switch is pressed and not pressed. <i>Connector & terminal</i> <i>(B135) No. 13 (+) — Chassis ground (-):</i>	Is the voltage 0 V when RES/ACC switch is not pressed? Is the voltage 10 V or more when RES/ACC switch is pressed?	Go to step 4.	Go to step 5.
4 CHECK CANCEL SWITCH CIRCUIT. Measure the voltage between harness connector terminal and chassis ground when CANCEL switch is pressed and not pressed. <i>Connector & terminal</i> <i>(B135) No. 13 (+) — Chassis ground (-):</i> <i>(B135) No. 24 (+) — Chassis ground (-):</i>	Is the voltage 0 V when CANCEL switch is not pressed? Is the voltage 10 V or more when CANCEL switch is pressed?	Cruise control command switch circuit is OK.	Go to step 5.
5 CHECK POWER SUPPLY FOR CRUISE CONTROL COMMAND SWITCH. Check the horn operation.	Does the horn sound?	Go to step 6.	<ul style="list-style-type: none"> • Check the fuse No. 6 (in main fuse box). • Check the horn relay. <Ref. to COM-3, HORN RELAY, INSPECTION, Horn System.> • Check open or shorted circuit of harness between cruise control command switch and fuse & relay box.
6 CHECK CRUISE CONTROL COMMAND SWITCH. Remove and check the cruise control command switch. <Ref. to CC-5, Cruise Control Command Switch.>	Is the cruise control command switch OK?	Check the harness between cruise control command switch and ECM.	Replace the cruise control command switch.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

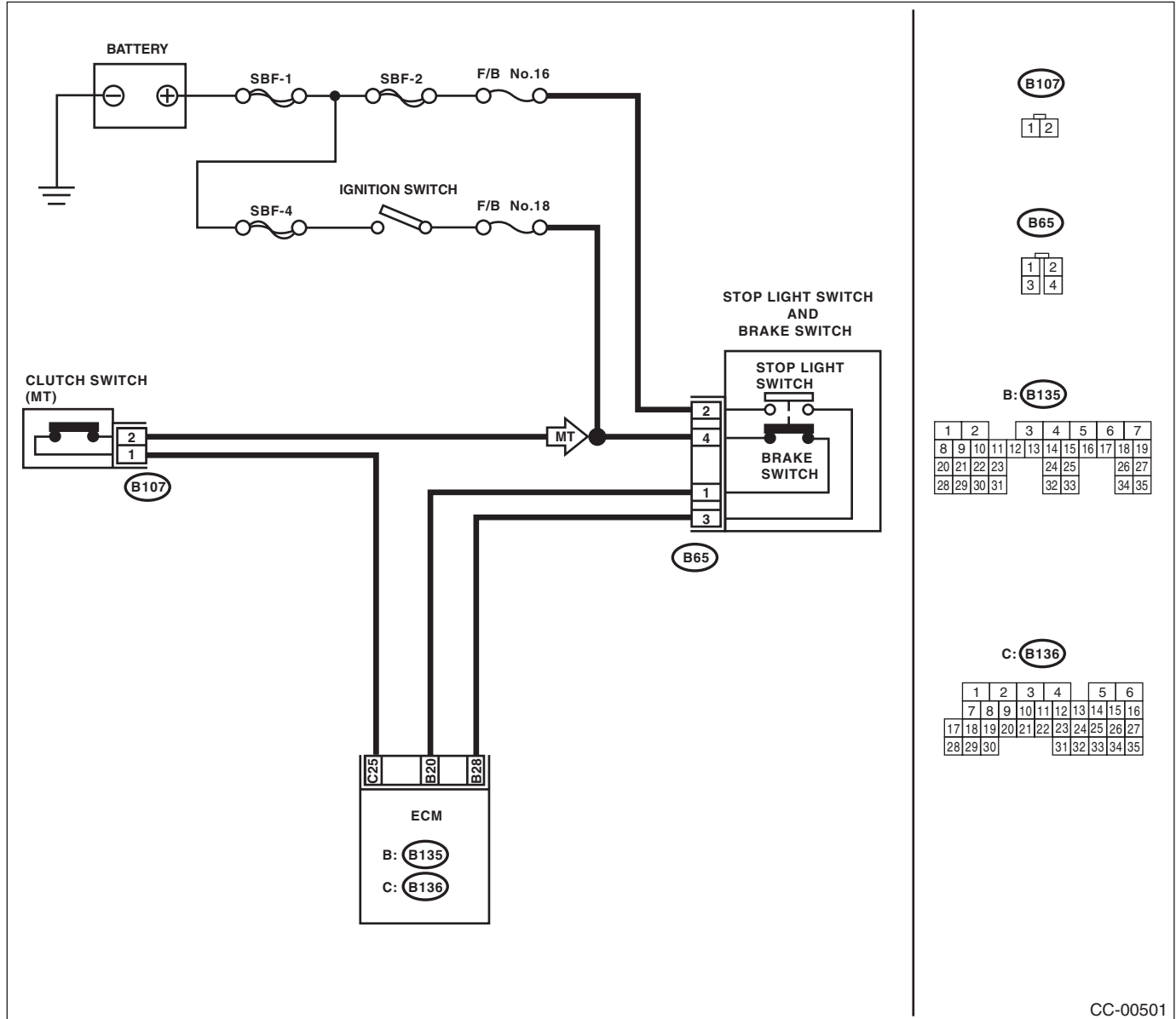
B: DTC 12

The DTC is detected when the brake pedal is pressed or problem relating to stop light and brake light switch occurs.

TROUBLE SYMPTOM:

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

WIRING DIAGRAM:



CC-00501

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK STOP LIGHT AND BRAKE SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the stop light and 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. 2 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Go to step 2.	<ul style="list-style-type: none"> • Check fuse No. 16 (in fuse & relay box). • Check for open or short in the harness between stop light and brake switch and fuse & relay box.
2 CHECK STOP LIGHT AND BRAKE SWITCH CIRCUIT. Measure the voltage between harness connector terminal and chassis ground. Connector & terminal (B65) No. 4 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Go to step 3.	<ul style="list-style-type: none"> • Check fuse No. 18 (in fuse & relay box). • Check for open or short in the harness between stop light and brake switch and fuse & relay box. • Check the clutch switch and circuit.
3 CHECK STOP LIGHT AND BRAKE SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the harness connector of ECM. 3) Measure the resistance between the ECM harness connector terminal and stop light brake switch harness connector terminal. Connector & terminal (B135) No. 28 — (B65) No. 3: (B135) No. 20 — (B65) No. 1:	Is the resistance less than 10 Ω?	Go to step 4.	Repair the harness.
4 CHECK STOP LIGHT AND BRAKE SWITCH CIRCUIT. Remove and check the stop light and brake switch. <Ref. to CC-6, Stop light and brake Switch.>	Is the stop light and brake switch OK?	Stop light switch and brake switch are OK.	Replace the stop light and brake switch.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

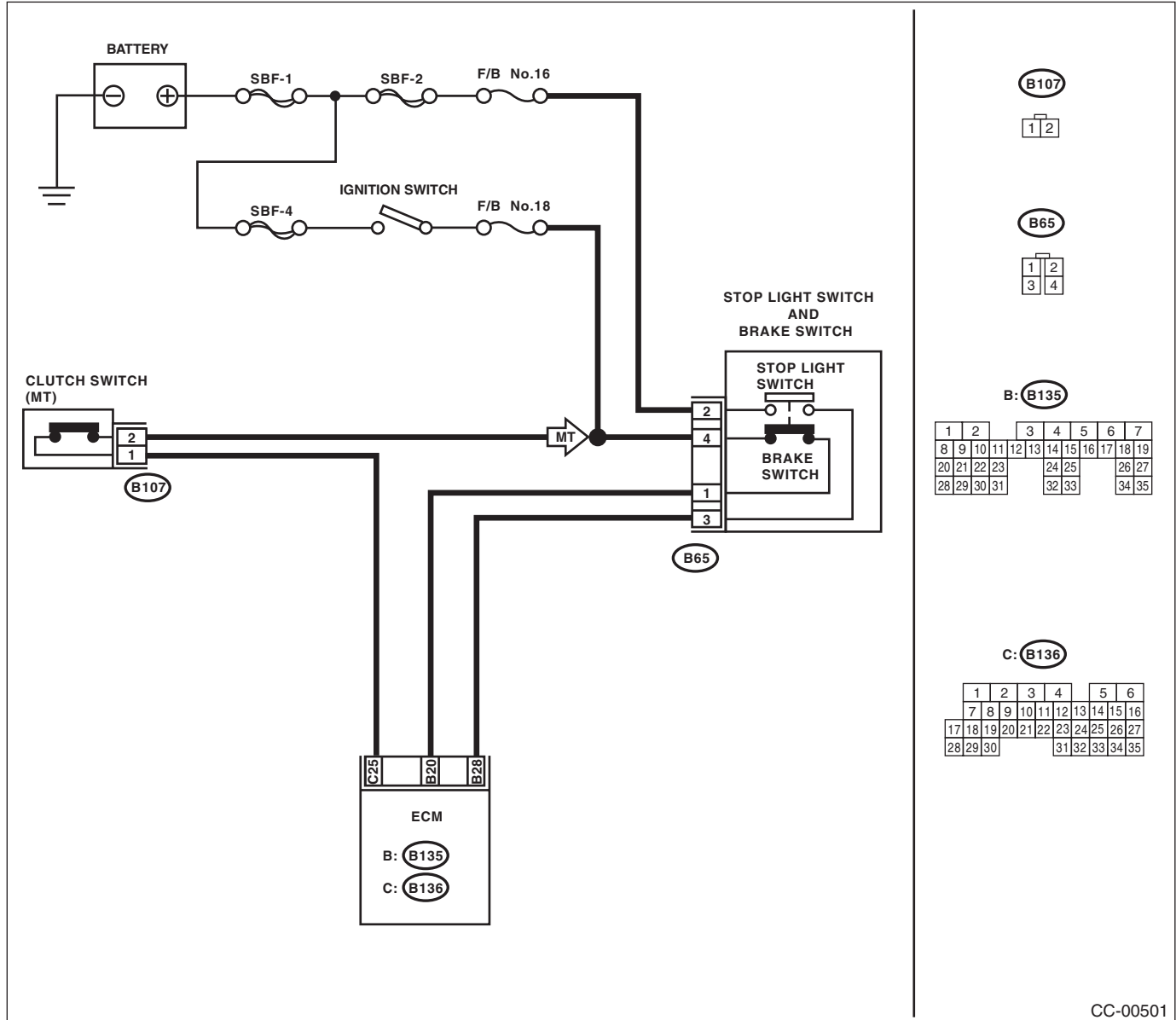
C: DTC 13

The DTC is detected when the clutch pedal is depressed or problem relating to the clutch switch occurs.

TROUBLE SYMPTOM:

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

WIRING DIAGRAM:



CC-00501

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 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. 2 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Go to step 2.	<ul style="list-style-type: none"> • Check fuse No. 18 (in fuse & relay box). • Check open or shorted circuit of harness between clutch switch and fuse & relay box.
2 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. 1 — (B136) No. 25:	Is the resistance less than 10 Ω?	Go to step 3.	Repair the harness.
3 CHECK CLUTCH SWITCH. Remove and check the clutch switch. <Ref. to CC-7, Clutch Switch.>	Is clutch switch OK?	Clutch switch circuit is OK.	Replace the clutch switch.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

D: DTC 14

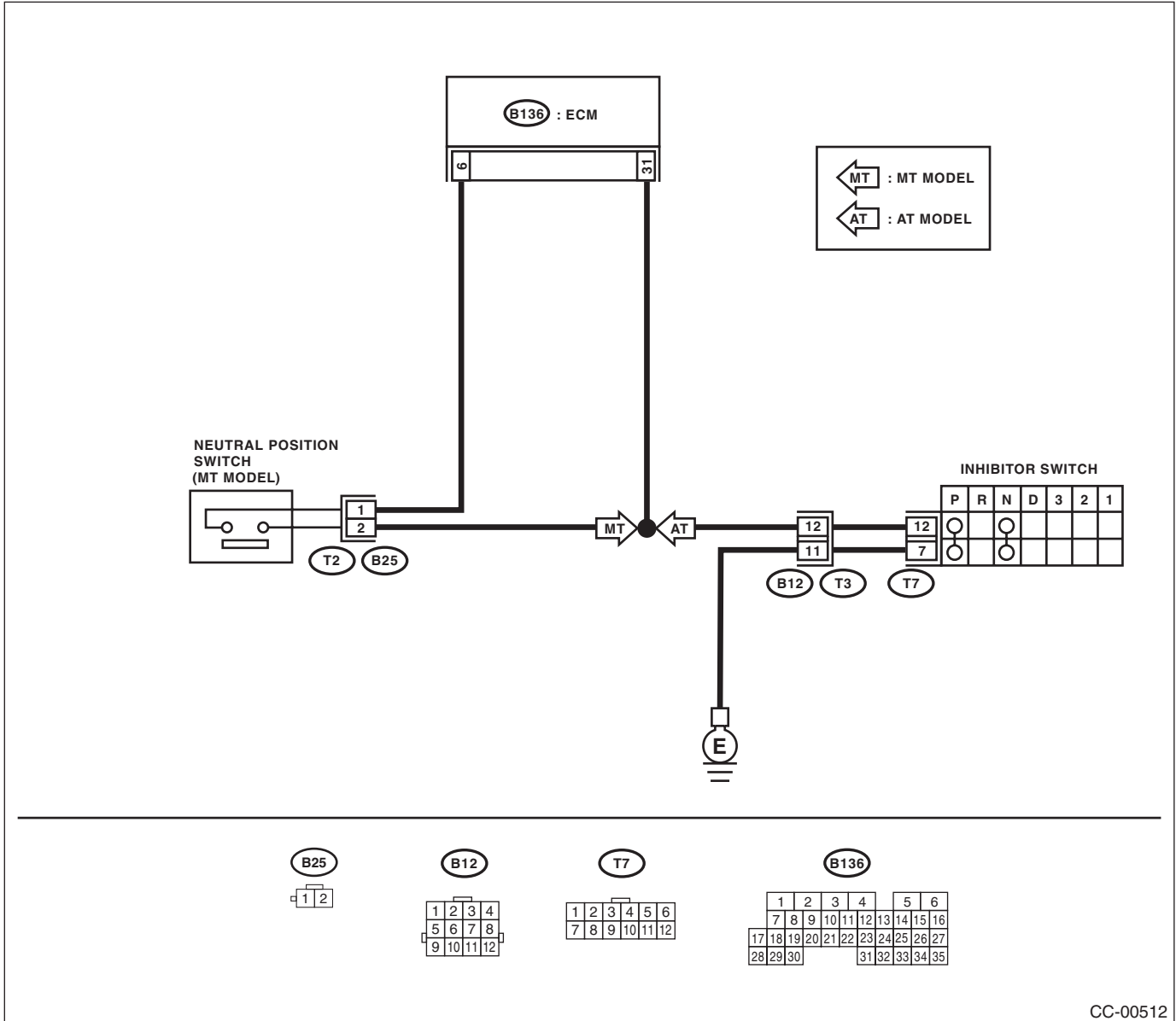
The DTC is detected when the select lever or shift lever is placed in neutral position or problem relating to the neutral position switch occurs.

TROUBLE SYMPTOM:

Cruise control cannot be set.

WIRING DIAGRAM:

- Non-turbo model

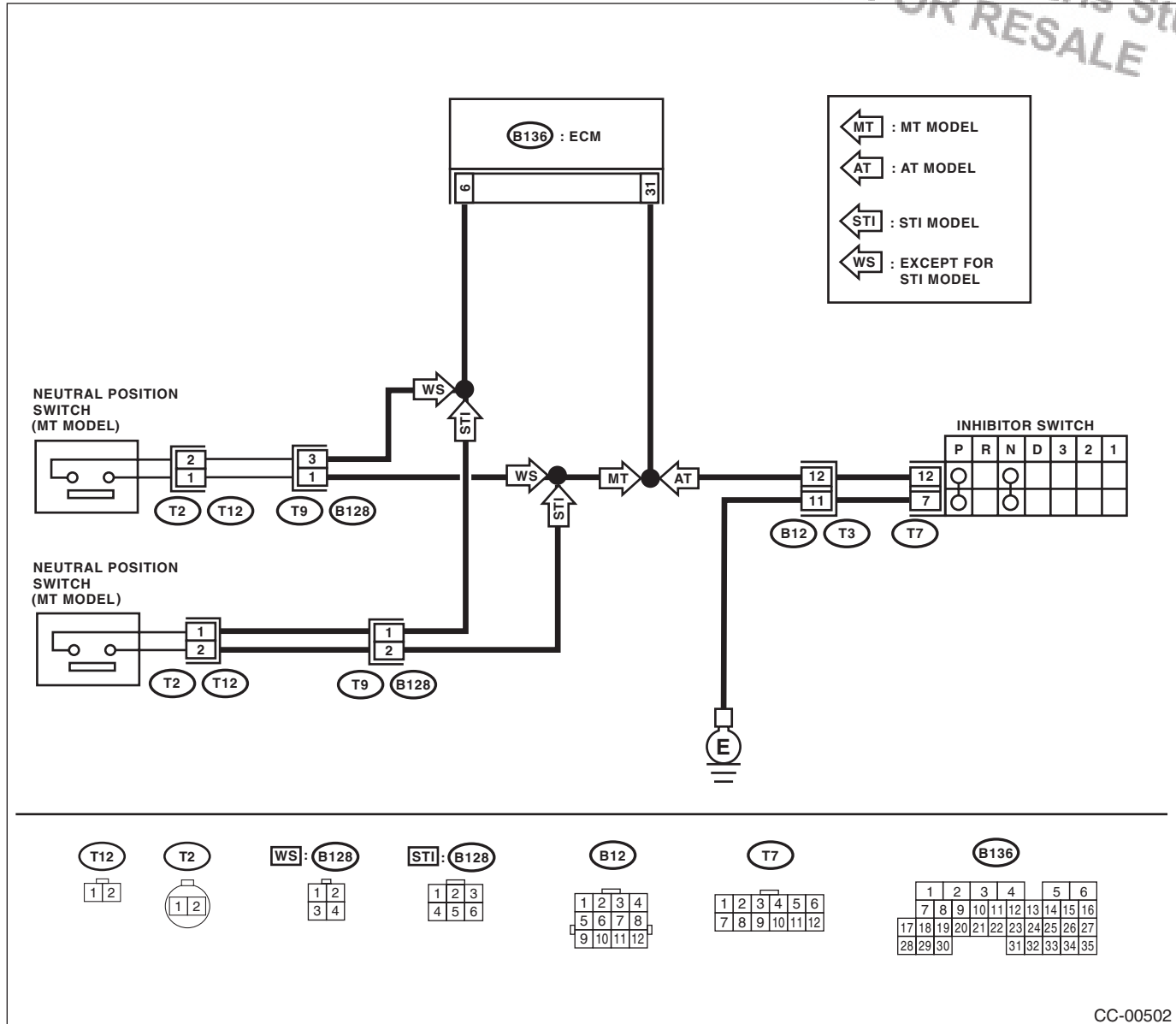


CC-00512

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

- Turbo model and STI model



CC-00502

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK TRANSMISSION TYPE.	Is the transmission type AT?	Go to step 2.	Go to step 5.
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. Connector & terminal (T7) No. 12 (+) — Chassis ground (-):	Is the voltage approx. 5 V?	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 chassis ground. Connector & terminal (T7) No. 7 — Chassis ground:	Is the resistance less than 10 Ω ?	Repair the harness.	Go to step 4.
4	CHECK INHIBITOR SWITCH. Remove and check the inhibitor switch. <Ref. to CC-8, Inhibitor Switch.>	Is the inhibitor switch OK?	Replace the ECM. <Ref. to FU(H4SO)-39, Engine Control Module (ECM).> <Ref. to FU(H4DOTC)-50, 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. Connector & terminal Non-turbo model: (B25) No. 1 (+) — Chassis ground (-): Turbo model: (B128) No. 1 (+) — Chassis ground (-): STI model: (B128) No. 2 (+) — Chassis ground (-):	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. Connector & terminal Non-turbo model: (B25) No. 2 — Chassis ground: Turbo model: (B128) No. 3 — Chassis ground: STI model: (B128) No. 5 — Chassis ground:	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-9, Neutral Position Switch.>	Is the neutral position switch OK?	The neutral position switch circuit is operating properly.	Replace the neutral position switch.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

E: DTC 15

This DTC is detected when the cancel switch is pressed or problem relating to the cruise control command 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(ETC)(diag)-19, DTC 11, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

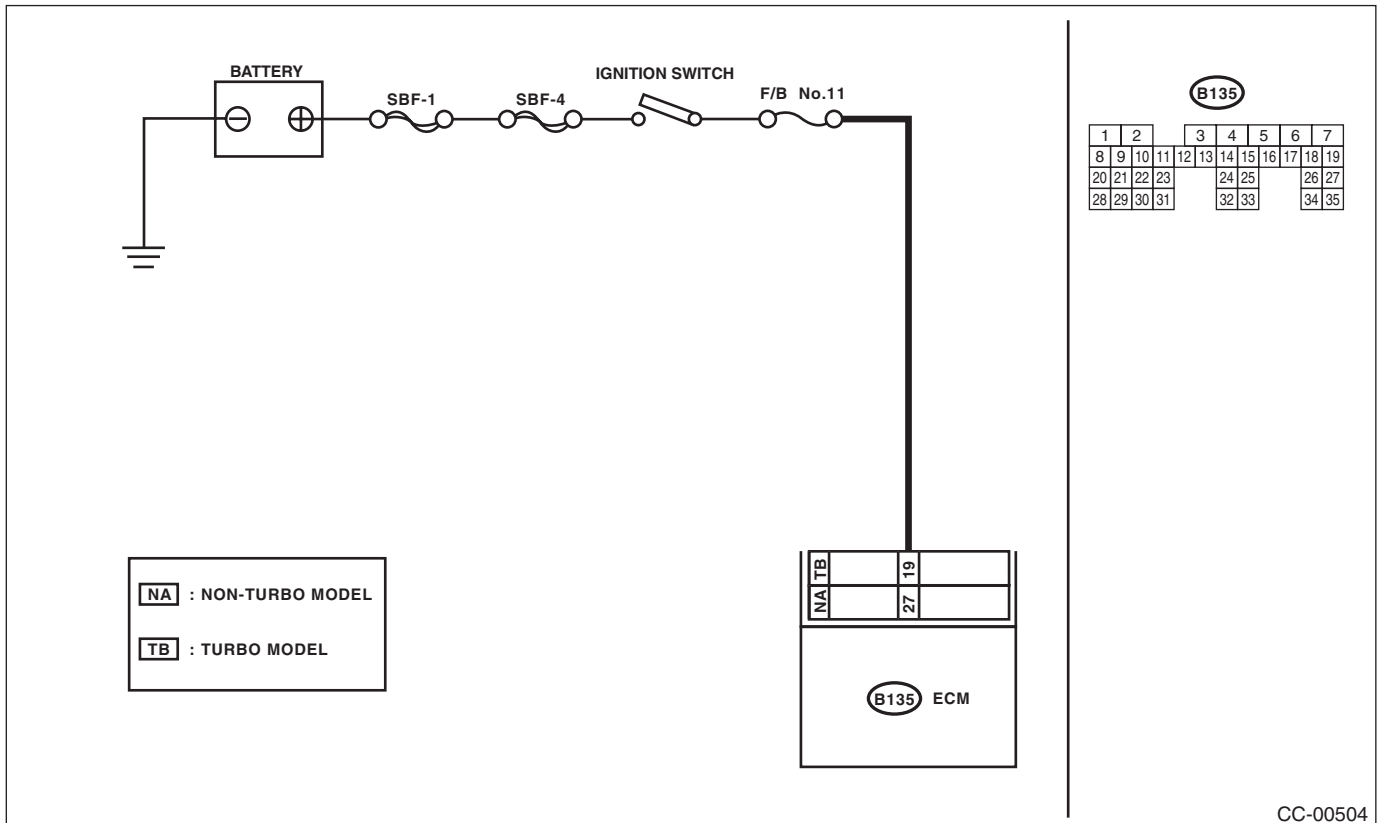
F: DTC 16

This DTC is detected when the ignition switch is turned OFF or problem relating to the ignition switch occurs.

TROUBLE SYMPTOM:

Cruise control cannot be set.

WIRING DIAGRAM:



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: (B135) No. 27 (+) — Chassis ground (-); Turbo model: (B135) No. 19 (+) — Chassis ground (-);	Is the voltage 10 V or more?	Check poor contact of ECM connector.	• Check fuse No. 11 (in fuse & relay box). • Check the harness for open or short circuit between ignition switch and ECM.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

G: DTC 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(ETC)(diag)-19, DTC 11, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

H: DTC 22

Malfunction related to vehicle speed sensor is detected.

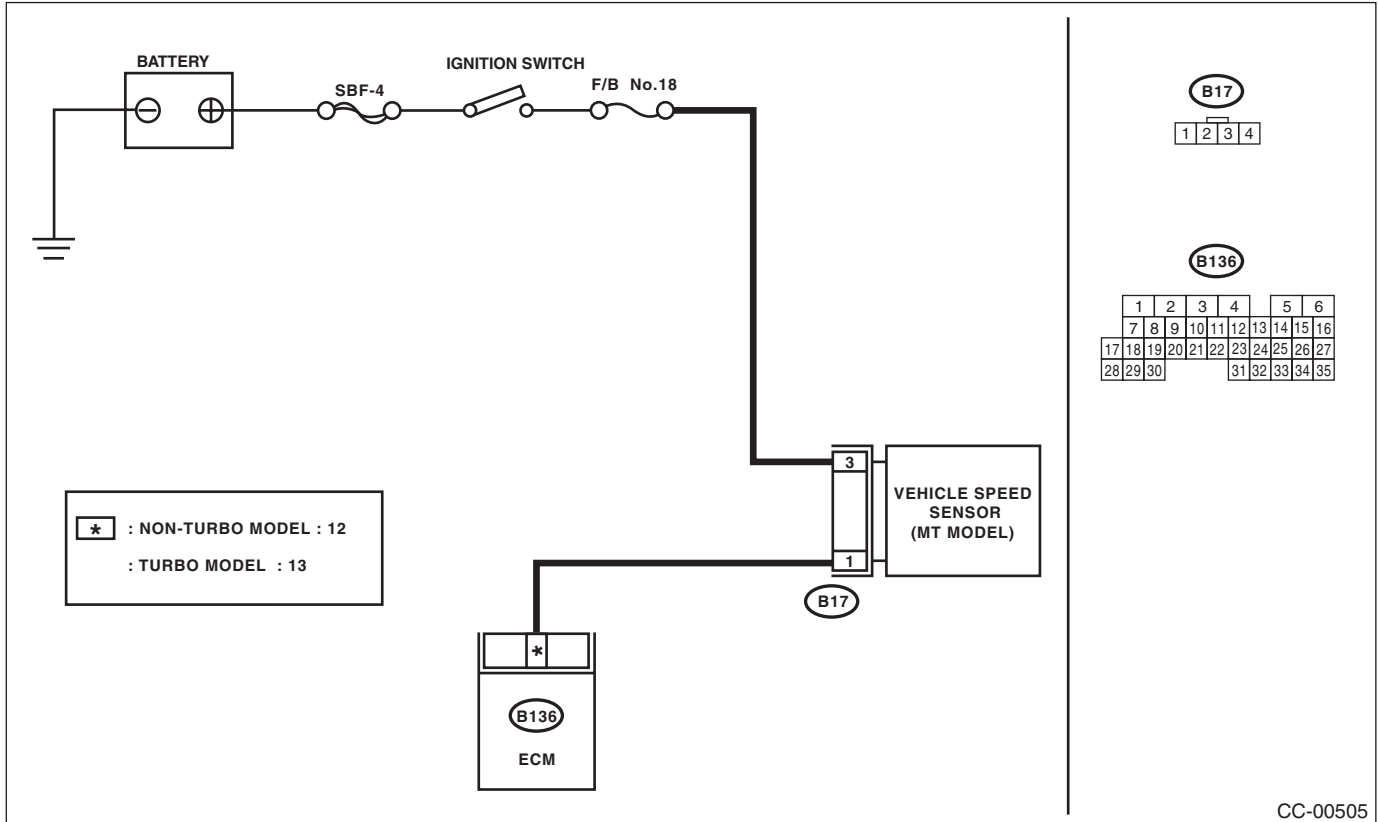
DIAGNOSIS:

Open or shorted circuit in vehicle speed sensor system.

TROUBLE SYMPTOM:

Cruise control cannot be set. (Cancelled immediately.)

WIRING DIAGRAM:



CC-00505

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK HARNESS BETWEEN BATTERY AND VEHICLE SPEED SENSOR. 1) Turn the ignition switch to OFF. 2) Disconnect harness connector from vehicle speed sensor. 3) Turn the ignition switch to ON. 4) Measure voltage between vehicle speed sensor harness connector terminal and chassis ground. Connector & terminal (B17) No. 3 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Go to step 2.	Check for open or shorted circuit in the harness between fuse and vehicle speed sensor.
2	CHECK HARNESS BETWEEN ECM AND VEHICLE SPEED SENSOR. 1) Turn the ignition switch to OFF. 2) Disconnect harness connector from ECM. 3) Measure the resistance between harness connector terminals of vehicle speed sensor and of ECM. Connector & terminal (B17) No. 1 — (B135) No. 27:	Is the resistance less than 10 Ω?	Go to step 3.	Repair the harness.
3	CHECK HARNESS BETWEEN VEHICLE SPEED SENSOR AND ENGINE GROUND. 1) Turn the ignition switch to OFF. 2) Measure resistance between vehicle speed sensor harness connector terminal and engine ground. Connector & terminal (B17) No. 2 — Engine ground:	Is the resistance less than 10 Ω?	Go to step 4.	Repair the harness.
4	CHECK VEHICLE SPEED SENSOR. 1) Connect the harness connector to the vehicle speed sensor. 2) Lift up the vehicle. 3) Drive the vehicle at speed greater than 20 km/h (12 MPH). WARNING: Be careful not to be dragged in by the rotating wheel. 4) Measure the voltage between ECM harness connector terminal and chassis ground. Connector & terminal Non-turbo model: (B136) No. 12 (+) — Chassis ground (-): Turbo model: (B136) No. 13 (+) — Chassis ground (-):	Is the voltage less than 1 V ←→ 5 V or more?	Check poor contact of ECM connector.	Replace the vehicle speed sensor.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

I: DTC 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(ETC)(diag)-19, DTC 11, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

J: DTC 25

Malfunction of brake input circuit in ECM is detected.

Refer to the Engine Diagnostic Procedure for diagnostic procedure.

<Ref. to EN(H4SO)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

<Ref. to EN(H4DOTC)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

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

K: DTC 31

Malfunction of the engine speed signal is detected.

Abnormal increase of engine speed is detected.

Gear is set to 1st or Reverse position.

After driving at the 2nd gear position or higher, perform the cruise setting again. If the DTC is not detected, it is normal.

L: DTC 32

This DTC is detected out of vehicle speed range.

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

If the DTC is detected after performing the setting operation, perform DTC 22 diagnosis.

Refer to DTC 22 for diagnostic procedure.

<Ref. to CC(ETC)(diag)-30, DTC 22, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

M: DTC 34

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

DTC is detected when driving for a long period of time at higher speed than appropriate cruise speed by operating accelerator pedal.

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

N: DTC 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.

DTC is detected when driving condition is not suitable for cruise control.

Perform cruise set operation again after clearing the possible cause.

O: DTC 43

ABS/VDC malfunction is detected.

VDC malfunction is detected during cruise driving or cruise setting.

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

P: DTC 61

Malfunction in the stop light and 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(ETC)(diag)-21, DTC 12, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

Q: DTC 62

Neutral position switch malfunction is detected.

TROUBLE SYMPTOM:

Cruise control cannot be set.

Refer to DTC 14 for diagnostic procedure.

<Ref. to CC(ETC)(diag)-25, DTC 14, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

R: DTC 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(ETC)(diag)-30, DTC 22, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

S: DTC 64

Malfunction related to engine is detected.

Refer to the Engine Diagnostic Procedure for diagnostic procedure.

<Ref. to EN(H4SO)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

<Ref. to EN(H4DOTC)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

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

T: DTC 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(ETC)(diag)-19, DTC 11, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

U: DTC 66

Cruise control calculation malfunction is detected.

Refer to the Engine Diagnostic Procedure for diagnostic procedure. <Ref. to EN(H4SO)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.> <Ref. to EN(H4DOTC)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.> <Ref. to EN(STI)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

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