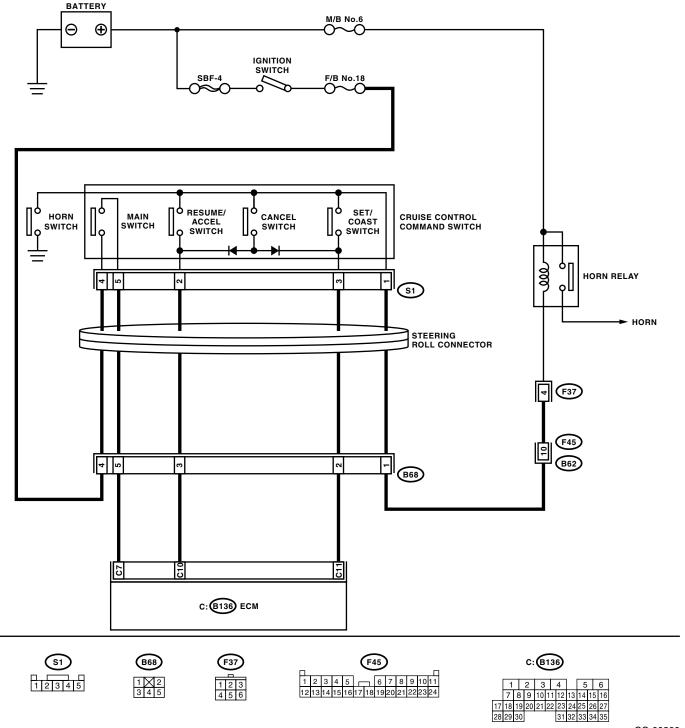
8. Diagnostic Procedure with DTC

A: DTC 11, 15, 21 AND 24 CRUISE CONTROL COMMAND SWITCH TROUBLE SYMPTOM:

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

WIRING DIAGRAM:



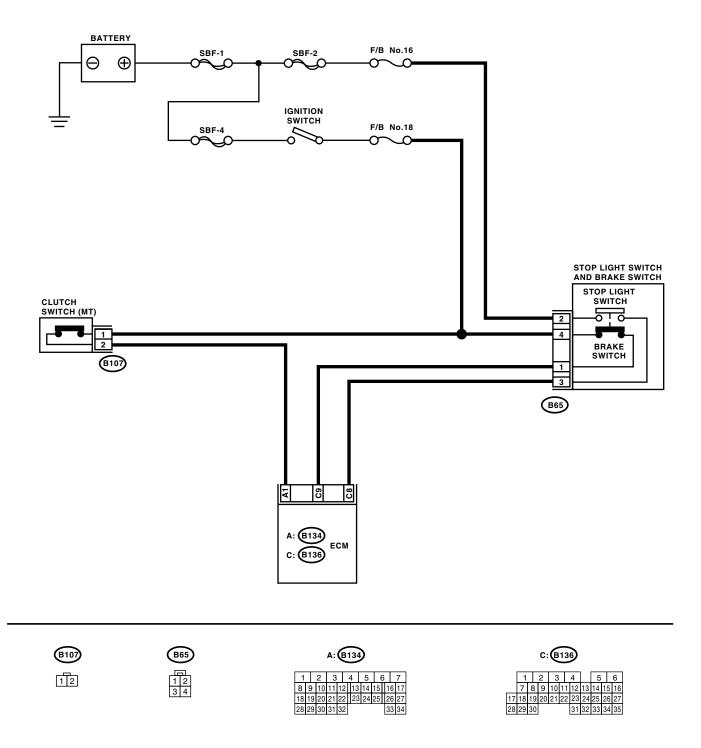
	Step	Check	Yes	No
1	CHECK CRUISE CONTROL MAIN SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the ECM harness connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal and chassis ground when the main switch is pressed and is not pressed. Connector & terminal (B136) No. 7 (+) — Chassis ground (-):	Is the voltage 0 V when the main switch is not pressed? Is the voltage more than 10 V when the main switch is pressed?	Go to step 2.	 Check the fuse No. 18 (in fuse & relay box). Check the harness for open or short 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 ECM harness connector. 3)Measure the voltage between harness connector terminal and chassis ground when SET/COAST switch is pressed and not pressed. Connector & terminal (B136) No. 11 (+) — Chassis ground (-):	Is the voltage 0 V when SET/ COAST switch is not pressed? Is the voltage more than 10 V when SET/COAST switch is pressed?	Go to step 3.	Go to step 5.
3	CHECK RESUME/ACCEL SWITCH CIRCUIT. Measure the voltage between harness connector terminal and chassis ground when RESUME/ACCEL switch is pressed and not pressed. Connector & terminal (B136) No. 10 (+) — Chassis ground (-):	Is the voltage 0 V when RESUME/ACCEL switch is not pressed? Is the voltage more than 10 V when RESUME/ ACCEL 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. Connector & terminal (B136) No. 10 (+) — Chassis ground (-): (B136) No. 11 (+) — Chassis ground (-):	Is the voltage 0 V when CAN- CEL switch is not pressed? Is the voltage more than 10 V when CANCEL switch is pressed?	Cruise control command switch circuit is OK.	Go to step 5.
5	CHECK POWER SUPPLY FOR COMMAND SWITCH. Check the horn operation.	Does the horn sound?	Go to step 6.	Check the fuse No. 6 (in main fuse box). Check the horn relay. <ref. com-3,="" horn="" inspection,="" relay,="" system.="" to=""> Check the harness for open or short between cruise control command switch and fuse & relay box.</ref.>
6	CHECK CRUISE CONTROL COMMAND SWITCH. Remove and check the cruise control command switch. <ref. cc(sti)-4,="" command="" control="" cruise="" switch.="" to=""></ref.>	Is the cruise control command switch OK?	Check the harness between cruise control command switch and ECM.	Replace the cruise control command switch.

B: DTC 12 AND 25 STOP LIGHT SWITCH AND BRAKE SWITCH

TROUBLE SYMPTOM:

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

WIRING DIAGRAM:



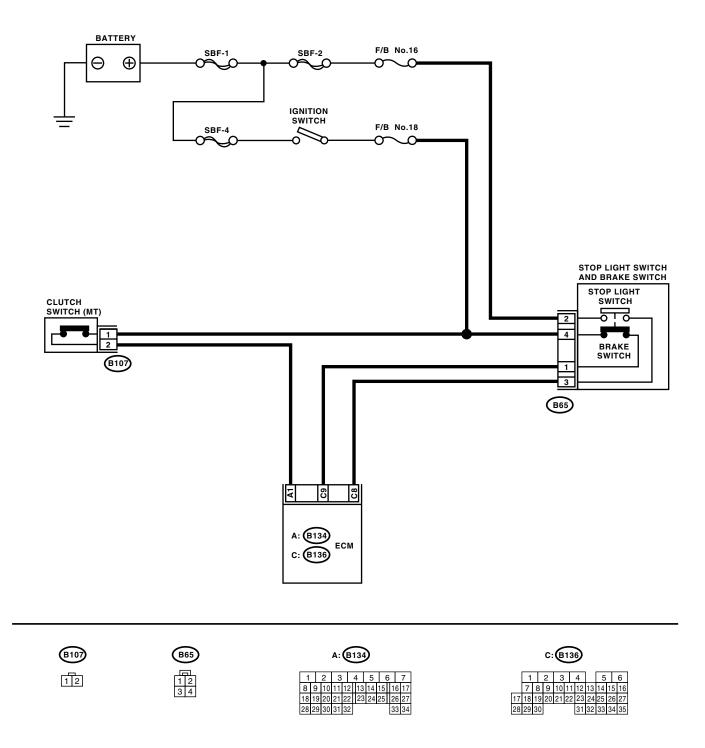
	Step	Check	Yes	No
1	CHECK STOP LIGHT SWITCH AND BRAKE SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the stop light switch and brake switch harness connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between harness connector terminal and chassis ground. Connector & terminal (B65) No. 2 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Go to step 2.	Check the fuse No. 16 (in fuse & relay box). Check the harness for open or short between stop light/brake switch and fuse & relay box.
2	CHECK STOP LIGHT SWITCH AND BRAKE SWITCH CIRCUIT. Measure the voltage between harness connector terminal and chassis ground. Connector & terminal (B65) No. 4 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Go to step 3.	Check the fuse No. 18 (in fuse & relay box). Check the harness for open or short between stop light/brake switch and fuse & relay box. Check the clutch switch and circuit.
3	CHECK STOP LIGHT SWITCH AND BRAKE SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the ECM harness connector. 3) Measure the resistance between ECM harness connector terminal and stop light switch and brake switch harness connector terminal. Connector & terminal (B136) No. 8 — (B65) No. 3: (B136) No. 9 — (B65) No. 1:	Is the resistance less than 10 Ω ?	Go to step 4.	Repair the harness.
4	CHECK STOP LIGHT SWITCH AND BRAKE SWITCH. Remove and check the stop light switch and brake switch. <ref. and="" brake="" cc(sti)-5,="" light="" stop="" switch.="" to=""></ref.>	Are the stop light switch and brake switch OK?	Stop light switch and brake switch circuit are OK.	Replace the stop light switch and brake switch.

C: DTC 13 CLUTCH SWITCH

TROUBLE SYMPTOM:

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

WIRING DIAGRAM:



	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. 1 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Go to step 2.	Check the fuse No. 18 (fuse & relay box). Check the harness for open or short between clutch switch and fuse & relay box.
2	CHECK CLUTCH SWITCH CIRCUIT. 1)Turn the ignition switch to OFF. 2)Disconnect the ECM harness connector. 3)Measure the resistance between clutch switch harness connector terminal and ECM harness connector terminal. Connector & terminal (B107) No. 2 — (B134) No. 1:	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. cc(sti)-6,="" clutch="" switch.="" to=""></ref.>	Is the clutch switch OK?	Clutch switch circuit is OK.	Replace the clutch switch.

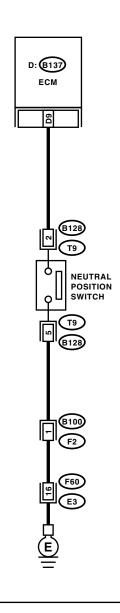
CRUISE CONTROL SYSTEM (DIAGNOSTICS)

D: DTC 14 NEUTRAL POSITION SWITCH

TROUBLE SYMPTOM:

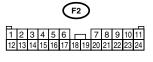
Cruise control cannot be set.

WIRING DIAGRAM:











CRUISE CONTROL SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK NEUTRAL POSITION SWITCH CIR- CUIT. 1)Turn the ignition switch to OFF.	Is the voltage more than 10 V?		Check the harness for open or short between neutral
	2)Disconnect the neutral position switch harness connector.3)Turn the ignition switch to ON.			position switch and ECM.
	4)Measure the voltage between harness connector terminal and chassis ground. Connector & terminal			
	(B128) No. 2 (+) — Chassis ground (–):			
2	CHECK NEUTRAL POSITION SWITCH CIRCUIT. 1) Turn the ignition switch to OFF. 2) Measure the resistance between neutral position switch harness connector terminal and chassis ground. Connector & terminal (B128) No. 5 — Chassis ground:	Is the resistance less than 10 Ω ?	Go to step 3.	Repair the harness.
3	CHECK NEUTRAL POSITION SWITCH. Remove and check the neutral position switch. <ref. cc(sti)-7,="" neutral="" position="" switch.="" to=""></ref.>	Is the neutral position switch OK?	Neutral position switch circuit is OK.	Replace the neutral position switch.

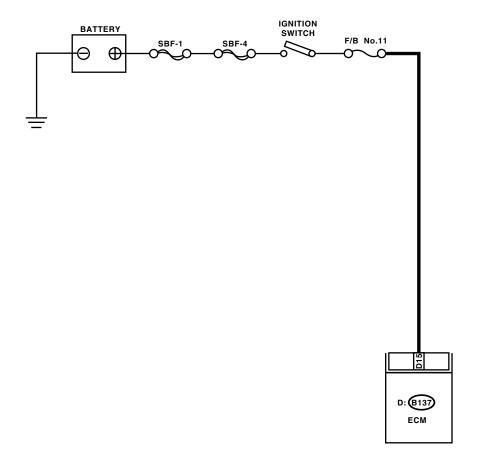
CRUISE CONTROL SYSTEM (DIAGNOSTICS)

E: DTC 16 IGNITION SWITCH

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 (B137) No. 15 (+) — Chassis ground (-):	Is the voltage more than 10 V?	contact of ECM connector.	 Check the fuse No. 11 (fuse & relay box). Check the harness for open or short between ignition switch and ECM.

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

F: DTC 22 AND 32 VEHICLE SPEED SENSOR

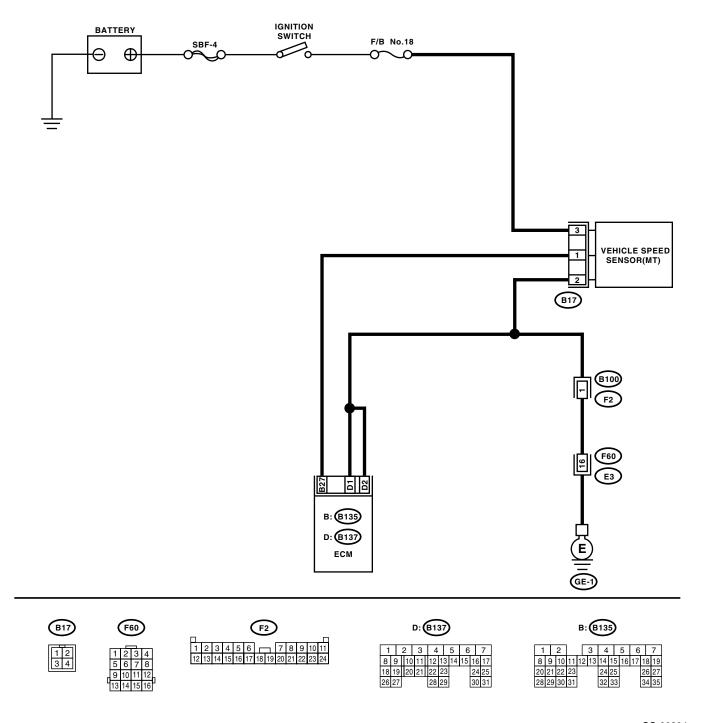
DIAGNOSIS:

Disconnection or short circuit of vehicle speed sensor system.

TROUBLE SYMPTOM:

Cruise control cannot be set. (Cancelled immediately.)

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK HARNESS BETWEEN BATTERY	Is the voltage more than 10 V?		Check the harness
'	AND VEHICLE SPEED SENSOR.	is the voltage more than 10 v?	Go to step 2.	for open or short
	1)Turn the ignition switch to OFF.			between fuse and
	2)Disconnect the harness connector from vehi-			vehicle speed sen-
	cle speed sensor.			sor.
	3)Turn the ignition switch to ON.			5511
	4)Measure the voltage between vehicle speed			
	sensor harness connector terminal and chas-			
	sis ground.			
	Connector & terminal			
	(B17) No. 3 (+) — Chassis ground (-):			
2	CHECK HARNESS BETWEEN ECM AND VE-	Is the resistance less than 10	Go to step 3.	Repair the har-
	HICLE SPEED SENSOR.	Ω ?		ness.
	1)Turn the ignition switch to OFF.			
	2)Disconnect the harness connector from			
	ECM.			
	3)Measure the resistance between vehicle			
	speed sensor harness connector terminal and			
	ECM harness connector terminal.			
	Connector & terminal			
	(B17) No. 1 — (B135) No. 27:			
3	CHECK HARNESS BETWEEN VEHICLE	Is the resistance less than 10	Go to step 4.	Repair the har-
	SPEED SENSOR AND ENGINE GROUND.	Ω?		ness.
	1)Turn the ignition switch to OFF.			
	Measure the resistance between vehicle speed sensor harness connector terminal and			
	engine ground.			
	Connector & terminal			
	(B17) No. 2 — Engine ground:			
4	CHECK VEHICLE SPEED SENSOR.	Is the voltage less than 1 V	Check the poor	Replace the vehi-
7	1)Connect the harness connector to vehicle	←→ more than 5 V?	contact of ECM	cle speed sensor.
	speed sensor.	7 more triair 6 V.	connector.	olo opoca coricor.
	2)Lift-up the vehicle and support with safety			
	stands.			
	3)Drive the vehicle at speed greater than 20			
	km/h (12 MPH).			
	Warning:			
	Be careful not to be caught up by the run-			
	ning wheels.			
	4)Measure the voltage between ECM harness			
	connector terminal and chassis ground.			
	Connector & terminal			
	(B135) No. 27 (+) — Chassis ground (–):			
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