

8. Diagnostics Chart with Diagnostic Code

A: DIAGNOSTIC CODE LIST

Diagnostic code	Item	Contents of diagnosis	Index No.
11	BRAKE SW/STOP SW	Input signals from brake switch "OFF", stop light switch "ON" (Brake pedal is depressed.)	<Ref. to 6-2 [T8B0].>
12	CLUTCH SW/INHIBITOR SW	Input signals from clutch switch "OFF" (MT), or inhibitor switch "P or N" (AT) [Clutch pedal is depressed (MT), or selector lever is set to P or N position (AT).]	<Ref. to 6-2 [T8C0].>
13	LOW SPEED LIMIT	Low-speed control limiter	<Ref. to 6-2 [T8D0].>
14	CANCEL SW	Input signal from cancel switch (faulty SET/COAST switch or RESUME/ACCEL switch)	<Ref. to 6-2 [T8E0].>
21	VACUUM VALVE	Faulty vacuum valve or valve drive system	<Ref. to 6-2 [T8F0].>
22	VENT 2 VALVE	Faulty vent 2 valve or valve drive system	<Ref. to 6-2 [T8F0].>
23	VENT 1 VALVE	Faulty vent 1 valve or valve drive system	<Ref. to 6-2 [T8F0].>
24	SPEED SENSOR	Faulty vehicle speed sensor 2 (MT) or transmission control module (AT)	<Ref. to 6-2 [T8D0].>
25	CONTROL MODULE	Faulty CPU RAM included in cruise control module	<Ref. to 6-2 [T8G0].>

6-2 [T8B0] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

8. Diagnostics Chart with Diagnostic Code

B: DIAGNOSTIC CODE 11 (BRAKE SWITCH, STOP LIGHT SWITCH)

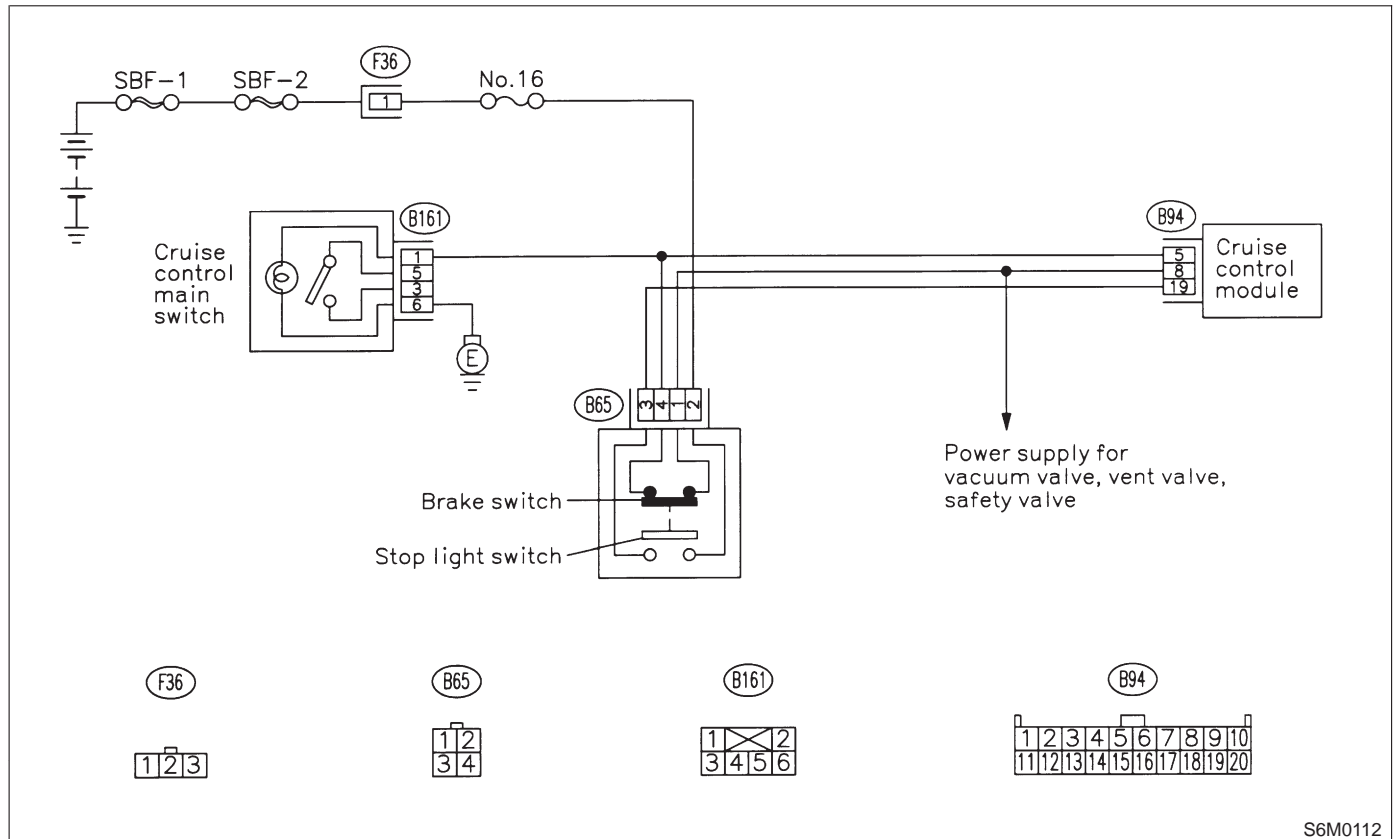
DIAGNOSIS:

- Failure or disconnection of the stop light switch and brake switch.

TROUBLE SYMPTOM:

- Cruise control cannot be set.

WIRING DIAGRAM:



S6M0112

8B1 : CHECK BRAKE SWITCH.

- 1) Turn ignition switch to ON.
- 2) Turn cruise control main switch to ON.
- 3) Apply parking brake securely.
- 4) Set select monitor in "Current Data Display & Save" mode.
- 5) Depress the brake pedal and check signals for proper operation.

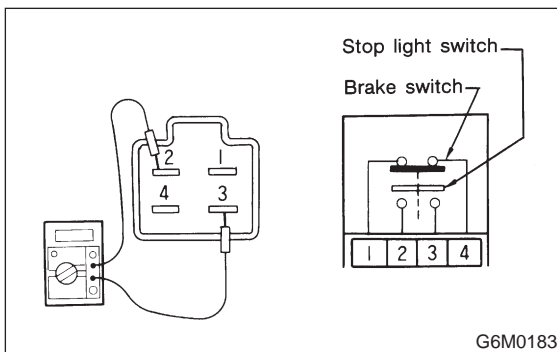
(1) The Stop Lamp Switch shown on the display turns from "OFF" to "ON".

(2) The Brake Switch shown on the display turns from "OFF" to "ON".

- 6) Release the brake pedal.
- 7) Remove connector of stop and brake switch.
- 8) Check circuit between brake switch terminal.

Terminals

No. 1 — No. 4: (Brake switch)



CHECK : *Is resistance less than 1 Ω? (When brake pedal is released.)*

YES : Go to step 8B2.

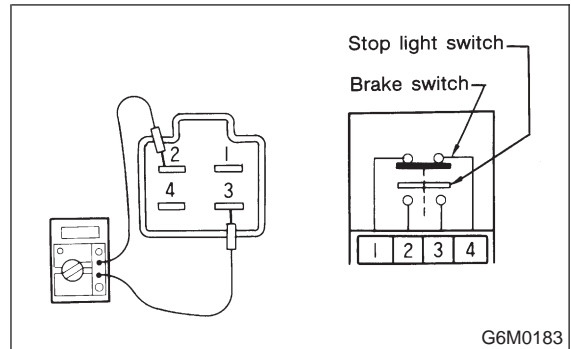
NO : Replace brake and stop light switch. <Ref. to 4-5 [C100].>

8B2 : CHECK BRAKE SWITCH.

Check circuit between brake switch terminal.

Terminals

No. 1 — No. 4: (Brake switch)



CHECK : *Is resistance more than 1 MΩ? (When brake pedal is depressed.)*

YES : Go to step 8B3.

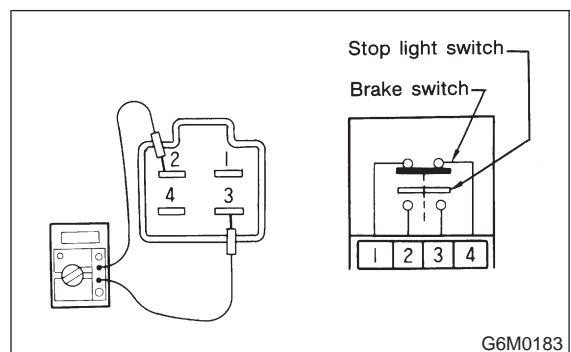
NO : Replace brake and stop light switch. <Ref. to 4-5 [C100].>

8B3 : CHECK STOP LIGHT SWITCH.

Check circuit between stop light switch terminal.

Terminals

No. 2 — No. 3: (Stop light switch)



CHECK : *Is resistance more than 1 MΩ? (When brake pedal is released.)*

YES : Go to step 8B4.

NO : Replace brake and stop light switch. <Ref. to 4-5 [C100].>

6-2 [T8B4] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

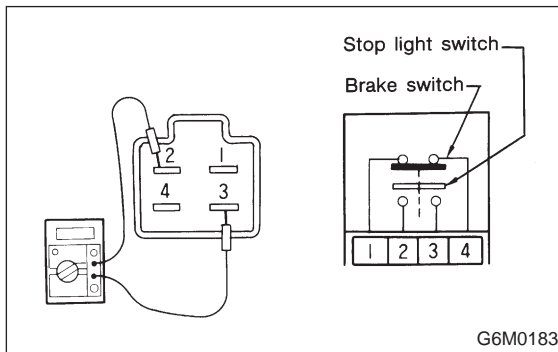
8. Diagnostics Chart with Diagnostic Code

8B4 : CHECK STOP LIGHT SWITCH.

Check circuit between stop light switch terminal.

Terminals

No. 2 — No. 3: (Stop light switch)



CHECK : *Is resistance less than 1 Ω ? (When brake pedal is depressed.)*

YES : Replace cruise control module. <Ref. to 6-2 [W11B4].>

NO : Replace brake and stop light switch. <Ref. to 4-5 [C1A0].>

MEMO:

6-2 [T8C0] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

8. Diagnostics Chart with Diagnostic Code

C: DIAGNOSTIC CODE 12 (CLUTCH SWITCH, INHIBITOR SWITCH)

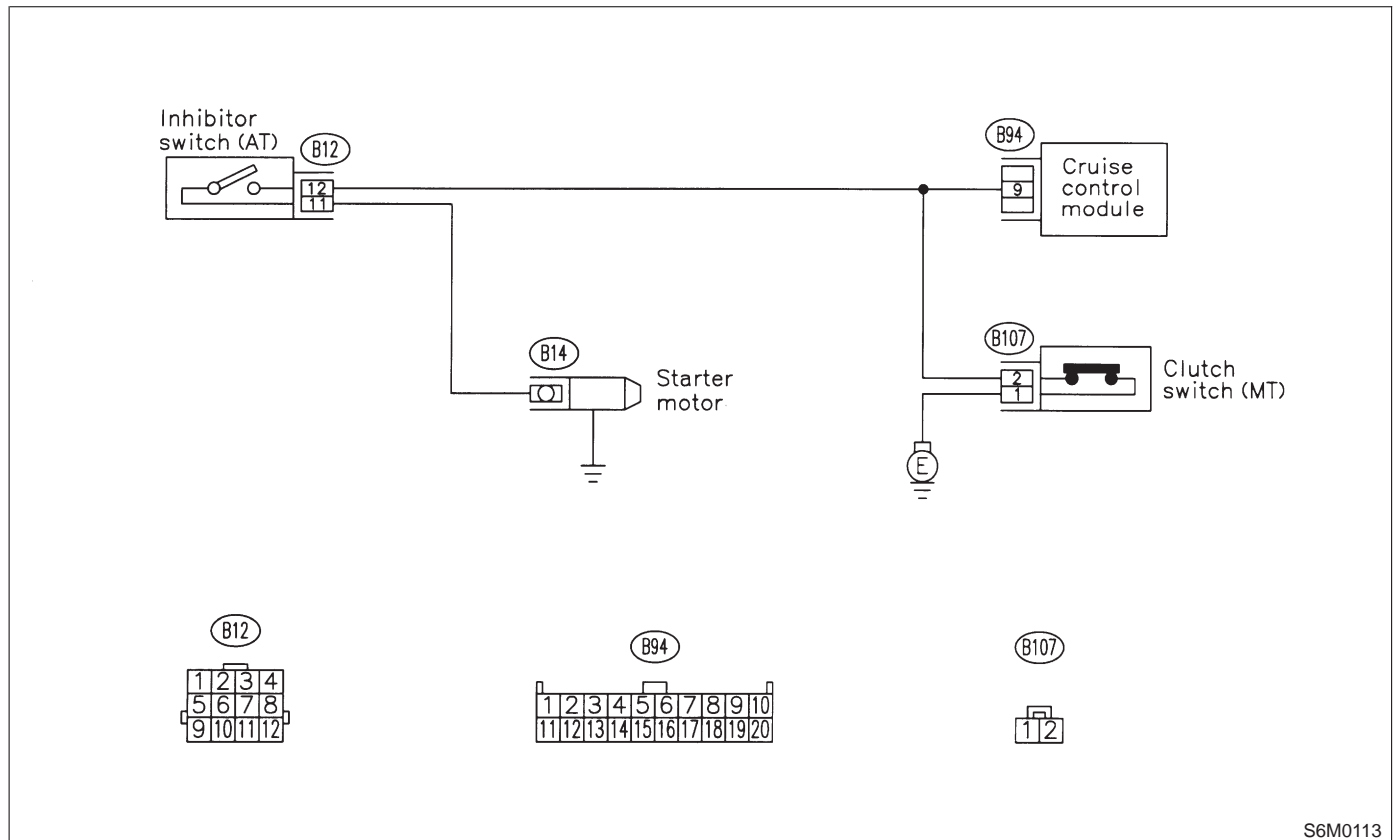
DIAGNOSIS:

- Failure or disconnection of the clutch switch. (MT)
- Failure or disconnection of the inhibitor switch. (AT)

TROUBLE SYMPTOM:

- Cruise control cannot be set.

WIRING DIAGRAM:



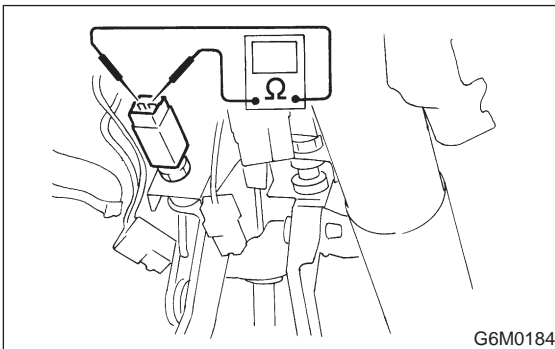
S6M0113

8C1 : CHECK CLUTCH SWITCH. (MT)

- 1) Turn ignition switch to ON.
- 2) Turn cruise control main switch to ON.
- 3) Apply parking brake securely.
- 4) Set select monitor in "Current Data Display & Save" mode.
- 5) Depress the clutch pedal and check signal for proper operation. (MT)
The Clutch/Inhibitor Switch shown on the display turns from "ON" to "OFF".
- 6) Disconnect connector of clutch switch.
- 7) Check continuity of the clutch switch.

Terminals

No. 1 — No. 2:



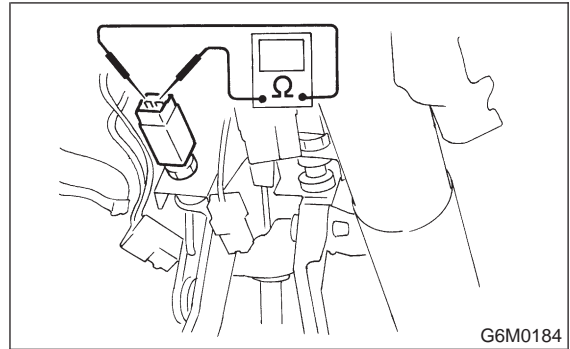
- CHECK** : **Is resistance less than 10 Ω? (When clutch pedal is released.)**
- YES** : Go to step **8C2**.
- NO** : Replace clutch switch. <Ref. to 4-5 [C1A0].>

8C2 : CHECK CLUTCH SWITCH. (MT)

Check continuity of the clutch switch.

Terminals

No. 1 — No. 2:



- CHECK** : **Is resistance more than 1 MΩ? (When clutch pedal is depressed.)**
- YES** : Replace cruise control module. <Ref. to 6-2 [W11B4].>
- NO** : Replace clutch switch. <Ref. to 4-5 [C1A0].>

6-2 [T8C3] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

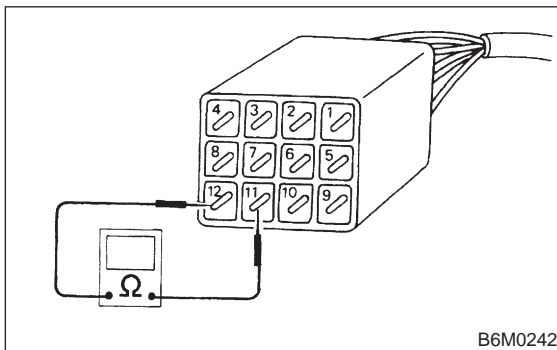
8. Diagnostics Chart with Diagnostic Code

8C3 : CHECK INHIBITOR SWITCH. (AT)

- 1) Turn ignition switch to ON.
- 2) Turn cruise control main switch to ON.
- 3) Apply parking brake securely.
- 4) Set select monitor in "Current Data Display & Save" mode.
- 5) Set the selector lever from P or N position to D position and check signal for proper operation. (AT) The Clutch/Inhibitor Switch shown on the display turns from "ON" to "OFF".
- 6) Set the selector lever to P or N position.
- 7) Disconnect connector of inhibitor switch.
- 8) Check continuity of the inhibitor switch.

Terminals

No. 11 — No. 12:



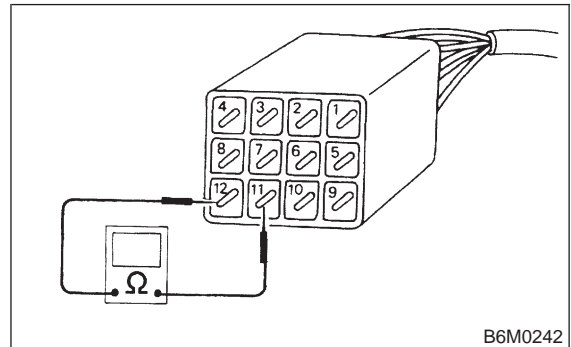
- CHECK** : *Is resistance less than 10 Ω? (When selector lever is in P or N.)*
- YES** : Go to step **8C4**.
- NO** : Replace inhibitor switch. <Ref. to 3-2 [W2C0].> Repair inhibitor switch wiring harness.

8C4 : CHECK INHIBITOR SWITCH. (AT)

Check continuity of the inhibitor switch.

Terminals

No. 11 — No. 12:



- CHECK** : *Is resistance more than 1 MΩ? (When selector lever is not in P or N.)*
- YES** : Replace cruise control module. <Ref. to 6-2 [W11B4].>
- NO** : Replace inhibitor switch. <Ref. to 3-2 [W2C0].> Repair inhibitor switch wiring harness.

MEMO:

6-2 [T8D0] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

8. Diagnostics Chart with Diagnostic Code

D: DIAGNOSTIC CODE 13 AND 24 (SPEED SENSOR SYSTEM)

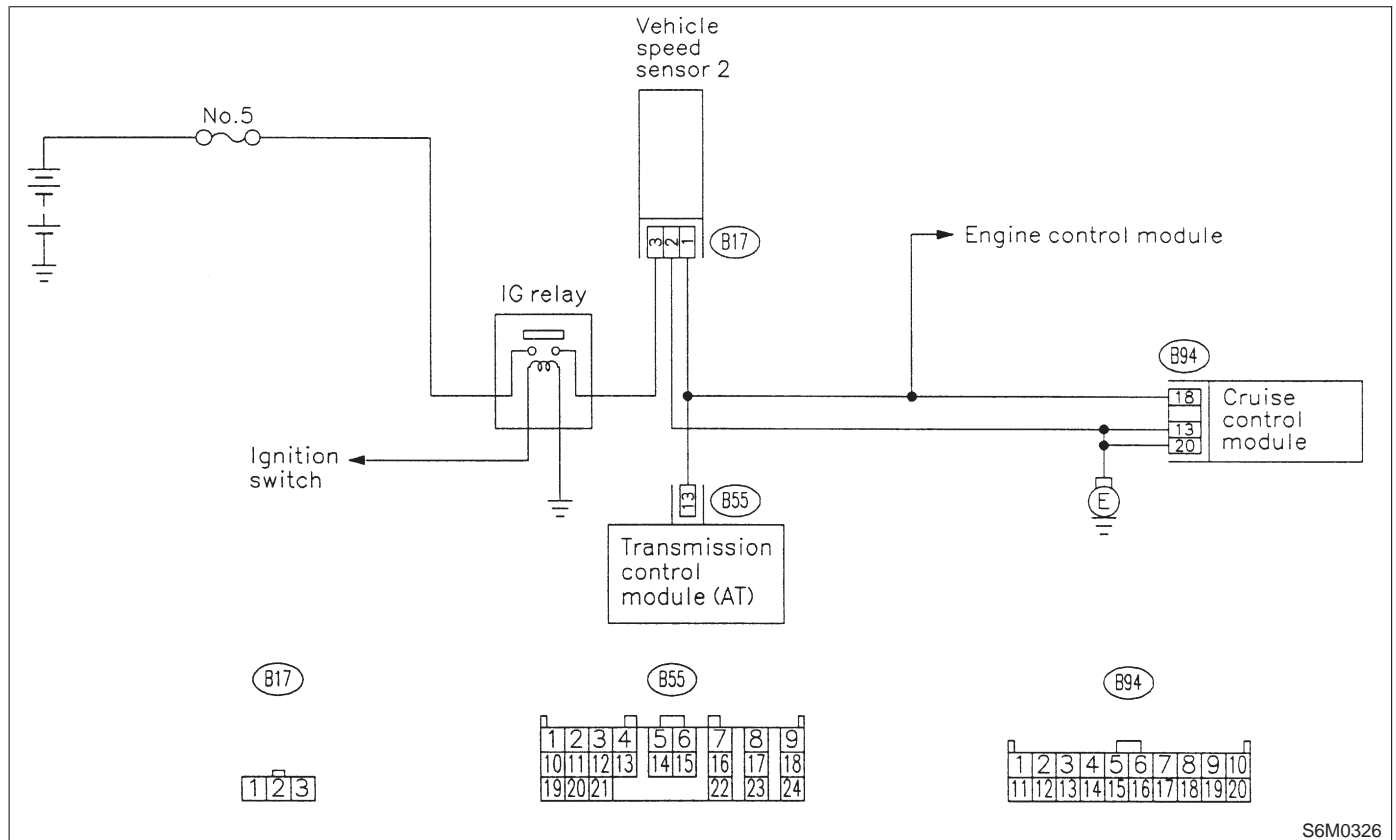
DIAGNOSIS:

- Disconnection or short circuit of vehicle speed sensor 2 (MT model) or transmission control module (AT model).

TROUBLE SYMPTOM:

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

WIRING DIAGRAM:



S6M0326

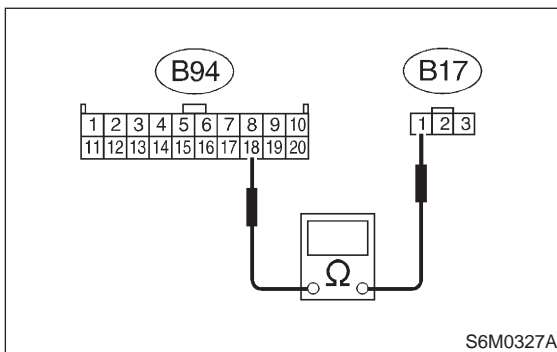
8D1 : CHECK TRANSMISSION TYPE.

- CHECK** : *Is the transmission type MT?*
- YES** : Go to step **8D2**.
- NO** : Go to step **8D7**.

8D2 : CHECK HARNESS CONNECTOR BETWEEN CRUISE CONTROL MODULE AND VEHICLE SPEED SENSOR 2.

- 1) Disconnect connector from vehicle speed sensor 2 and cruise control module.
- 2) Measure resistance of harness connector between vehicle speed sensor 2 and cruise control module.

Connector & terminal
(B17) No. 1 — (B94) No. 18:

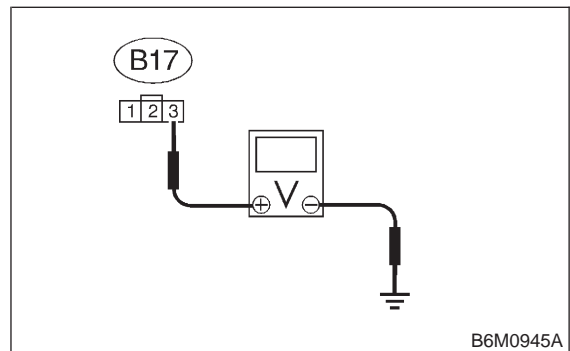


- CHECK** : *Is the resistance less than 10 Ω?*
- YES** : Go to step **8D3**.
- NO** : Repair wiring harness.

8D3 : CHECK HARNESS CONNECTOR BETWEEN BATTERY AND VEHICLE SPEED SENSOR 2.

- 1) Turn ignition switch to ON.
- 2) Measure voltage between vehicle speed sensor 2 connector (B17) and chassis ground.

Connector & terminal
(B17) No. 3 (+) — Chassis ground (-):

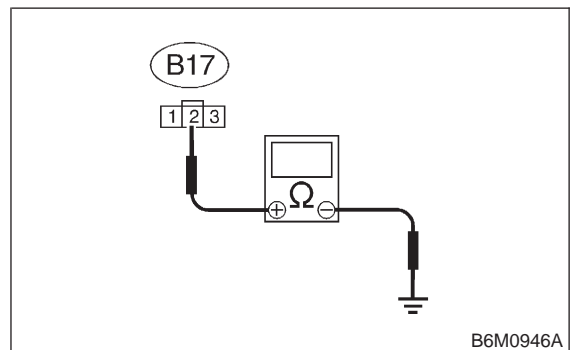


- CHECK** : *Is the voltage more than 10 V?*
- YES** : Go to step **8D4**.
- NO** : Repair harness connector between battery and vehicle speed sensor 2.

8D4 : CHECK HARNESS CONNECTOR BETWEEN VEHICLE SPEED SENSOR 2 AND ENGINE GROUND.

- 1) Turn ignition switch to OFF.
- 2) Measure resistance between vehicle speed sensor 2 connector (B17) and engine ground.

Connector & terminal
(B17) No. 2 (+) — Engine ground (-):



- CHECK** : *Is the resistance less than 10 Ω?*
- YES** : Go to step **8D5**.
- NO** : Repair harness connector between vehicle speed sensor 2 and engine ground.

6-2 [T8D5] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

8. Diagnostics Chart with Diagnostic Code

8D5 : CHECK VEHICLE SPEED SENSOR 2.

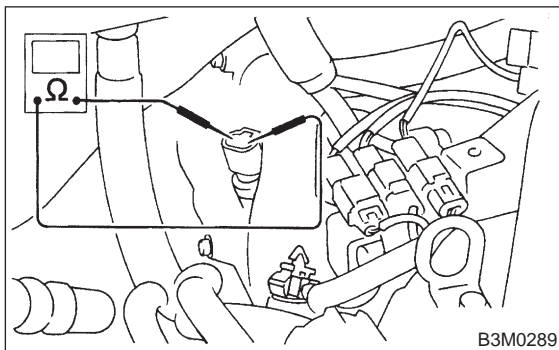
NOTE:

- If resistance between terminals of vehicle speed sensor 2 is out of specification, the sensor may have a failure.
- If resistance is OK and voltage between terminals of vehicle speed sensor 2 is out of specification, mechanical trouble may be present between vehicle speed sensor 2 and speedometer shaft in transmission.

Measure resistance between terminals of vehicle speed sensor 2.

Terminals

No. 2 — No. 3:



CHECK : Is the resistance between 350 and 450 Ω?

YES : Go to step 8D6.

NO : Replace vehicle speed sensor 2.

8D6 : CHECK VEHICLE SPEED SENSOR 2.

- 1) Connect connector to vehicle speed sensor 2.
- 2) Set the vehicle on free roller, or lift-up the vehicle and support with safety stands.

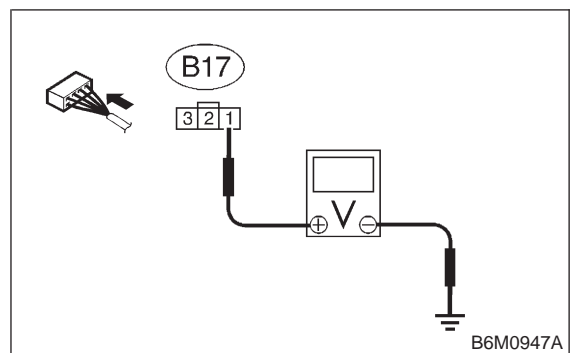
WARNING:

Be careful not to be caught up by the running wheels.

- 3) Drive the vehicle at speed greater than 20 km/h (12 MPH).
- 4) Measure voltage between vehicle speed sensor 2 connector (B17) and chassis ground.

Connector & terminal

(B17) No. 1 (+) — Chassis ground (-):



CHECK : Is the voltage more than 4 V?

YES : Replace cruise control module. <Ref. to 6-2 [W11B4].>

NO : Replace vehicle speed sensor 2.

8D7 : CHECK HARNESS CONNECTOR BETWEEN CRUISE CONTROL MODULE AND AUTOMATIC TRANSMISSION CONTROL MODULE.

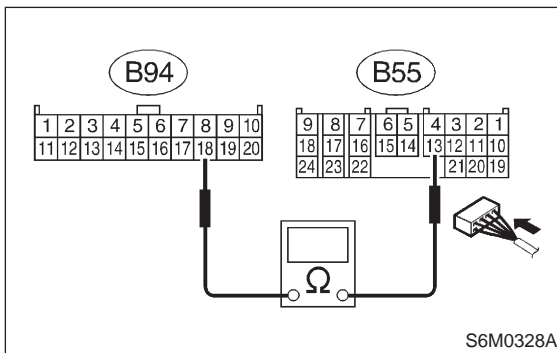
- 1) Disconnect connector from automatic transmission control module and cruise control module.
- 2) Measure resistance between cruise control module connector and automatic transmission control module connector.

CAUTION:

To measure the voltage and/or resistance, use a tapered pin with a diameter of less than 0.64 mm (0.025 in). Do not insert the pin more than 5 mm (0.20 in).

Connector & terminal

(B94) No. 18 — (B55) No. 13:



CHECK : **Is the resistance less than 10 Ω?**

YES : Go to step **8D8**.

NO : Repair harness connector between cruise control module and automatic transmission control module.

8D8 : CHECK AUTOMATIC TRANSMISSION CONTROL MODULE.

- 1) Connect connector to automatic transmission control module.
- 2) Set the vehicle on free roller, or lift-up the vehicle and support with safety stands.

WARNING:

Be careful not to be caught by the running wheels.

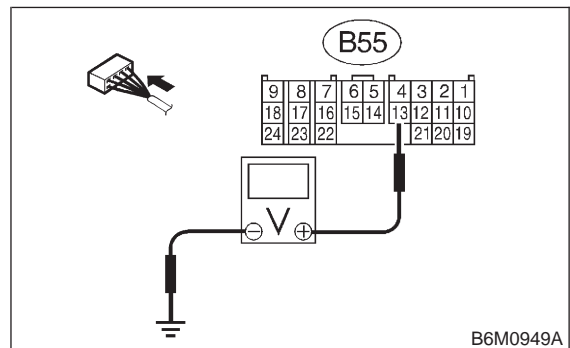
- 3) Drive the vehicle faster than 20 km/h (12MPH).
- 4) Measure voltage between automatic transmission control module connector (B55) and chassis ground.

CAUTION:

To measure the voltage and/or resistance, use a tapered pin with a diameter of less than 0.64 mm (0.025 in). Do not insert the pin more than 5 mm (0.20 in).

Connector & terminal

(B55) No. 13 (+) — Chassis ground (-):



CHECK : **Is the voltage more than 4 V?**

YES : Replace cruise control module. <Ref. to 6-2 [W11B4].>

NO : Replace automatic transmission control module. <Ref. to 3-2 [W22A0].>

6-2 [T8E0] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

8. Diagnostics Chart with Diagnostic Code

E: DIAGNOSTIC CODE 14 (SET/COAST SWITCH, RESUME/ACCEL SWITCH, CANCEL SWITCH)

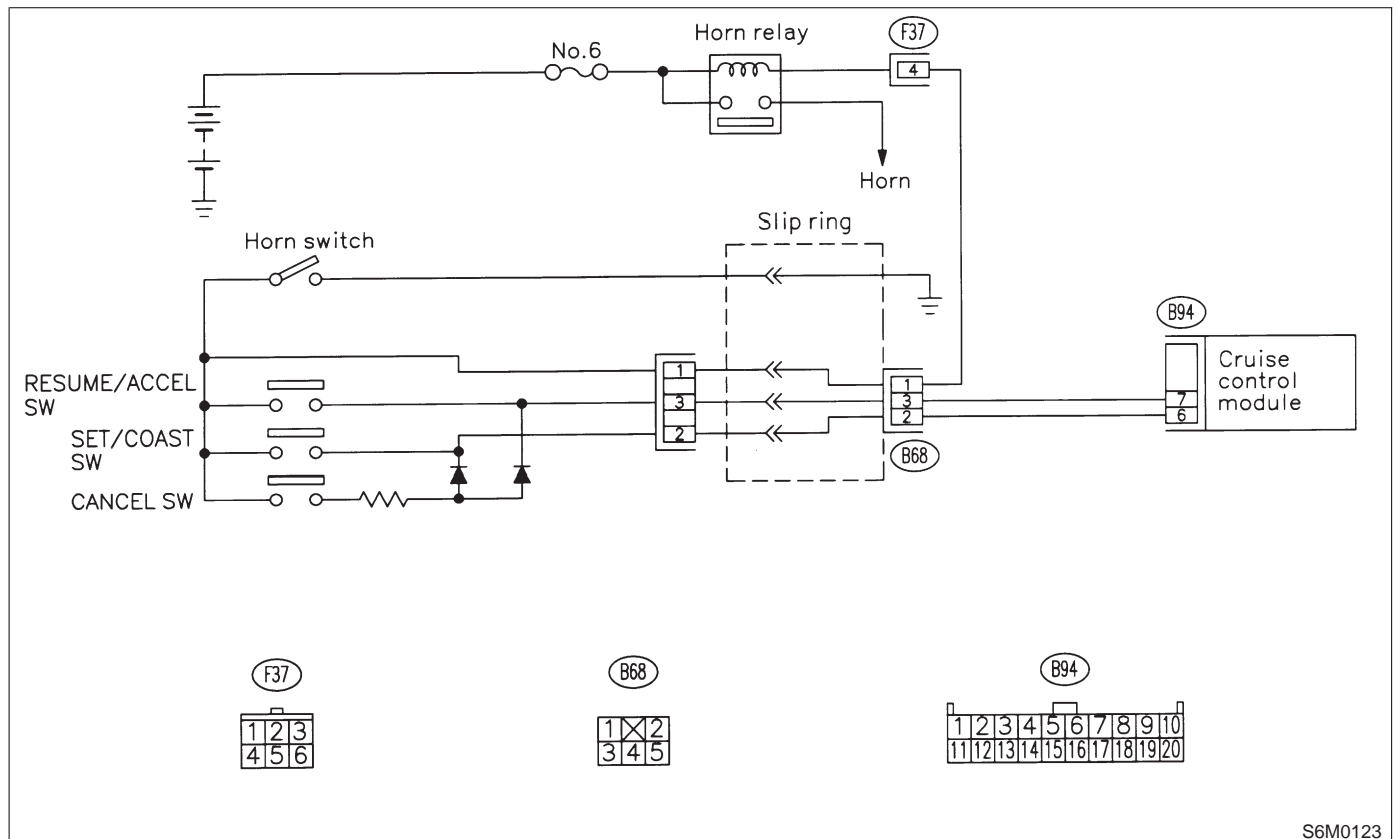
DIAGNOSIS:

- Short circuit inside the SET SW and RESUME SW.

TROUBLE SYMPTOM:

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

WIRING DIAGRAM:



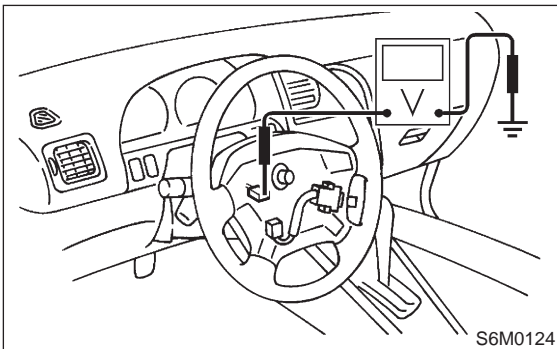
S6M0123

8E1 : CHECK POWER SUPPLY.

- 1) Turn ignition switch to ON.
- 2) Turn cruise control main switch to ON.
- 3) Set select monitor in "Current Data Display & Save" mode.
- 4) Check signals for proper operation.
 - (1) When pushing the SET/COAST switch:
The SET/COAST switch shown on the display turns from "OFF" to "ON".
 - (2) When pushing the RESUME/ACCEL switch:
The RESUME/ACCEL switch shown on the display turns from "OFF" to "ON".
- 5) Turn ignition switch to OFF.
- 6) Disconnect connector from cruise control command switch.
- 7) Turn ignition switch to ON.
- 8) Measure voltage between cruise control command switch connector and chassis ground.

Terminals

No. 1 (+) — Chassis ground (-):



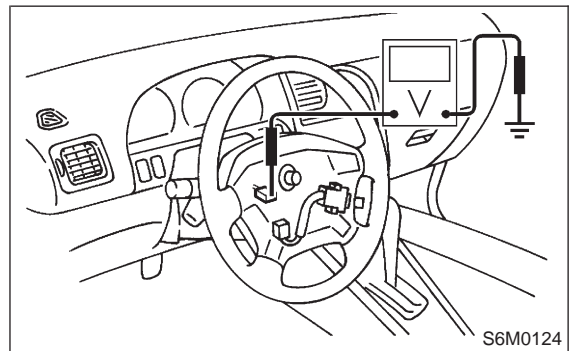
- CHECK** : *Is voltage more than 10 V?*
- YES** : Go to step **8E2**.
- NO** : Repair or replace wiring harness between fuse & relay box and cruise control command switch. <Ref. to 6-2 [W11B3].>

8E2 : CHECK CRUISE CONTROL COMMAND SWITCH.

- 1) Turn ignition switch to OFF.
- 2) Connect connector of cruise control command switch.
- 3) Turn ignition switch to ON.
- 4) Measure voltage between cruise control command switch connector and chassis ground.

Terminals

No. 2 (+) — Chassis ground (-):



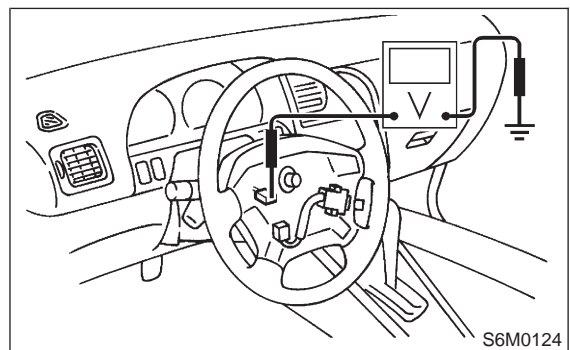
- CHECK** : *Is voltage more than 10 V? (When SET/COAST switch is ON.)*
- YES** : Go to step **8E3**.
- NO** : Replace cruise control command switch. <Ref. to 6-2 [W11B3].>

8E3 : CHECK CRUISE CONTROL COMMAND SWITCH.

Measure voltage between cruise control command switch connector and chassis ground.

Terminals

No. 3 (+) — Chassis ground (-):



- CHECK** : *Is voltage more than 10 V? (When RESUME/ACCEL switch is ON.)*
- YES** : Go to step **8E4**.
- NO** : Replace cruise control command switch. <Ref. to 6-2 [W11B3].>

6-2 [T8E4] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

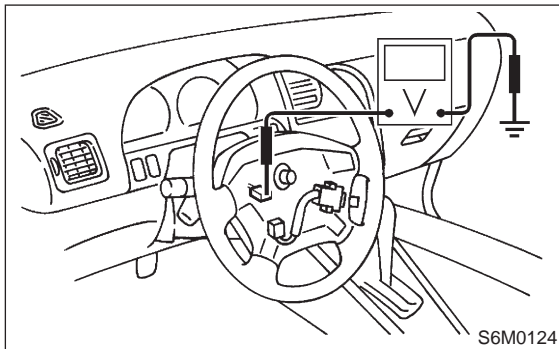
8. Diagnostics Chart with Diagnostic Code

8E4 : CHECK CRUISE CONTROL COMMAND SWITCH.

Measure voltage between cruise control command switch connector and chassis ground.

Terminals

No. 2 (+) — Chassis ground (-):



CHECK : *Is voltage more than 10 V? (When CANCEL switch is ON.)*

YES : Go to step 8E5.

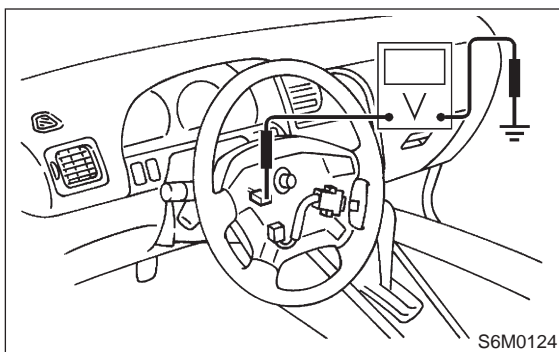
NO : Replace cruise control command switch. <Ref. to 6-2 [W11B3].>

8E5 : CHECK CRUISE CONTROL COMMAND SWITCH.

Measure voltage between cruise control command switch connector and chassis ground.

Terminals

No. 3 (+) — Chassis ground (-):



CHECK : *Is voltage more than 10 V? (When CANCEL switch is ON.)*

YES : Go to step 8E6.

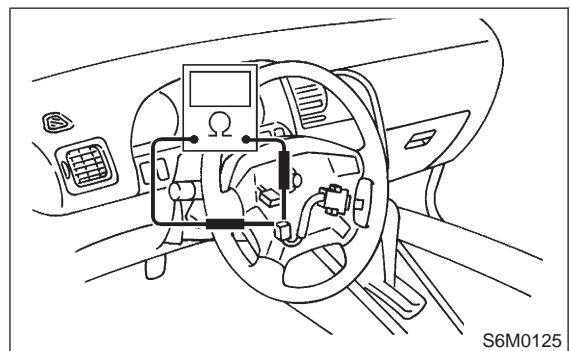
NO : Replace cruise control command switch. <Ref. to 6-2 [W11B3].>

8E6 : CHECK CRUISE CONTROL COMMAND SWITCH.

- 1) Turn ignition switch to OFF.
- 2) Disconnect connector from cruise control command switch.
- 3) Measure resistance between terminals of cruise control command switch connector (switch side) to check the switch operation.

Terminals

No. 1 — No. 2:



CHECK : *Is resistance less than 10 Ω ? (When SET/COAST switch is ON.)*

YES : Go to step 8E7.

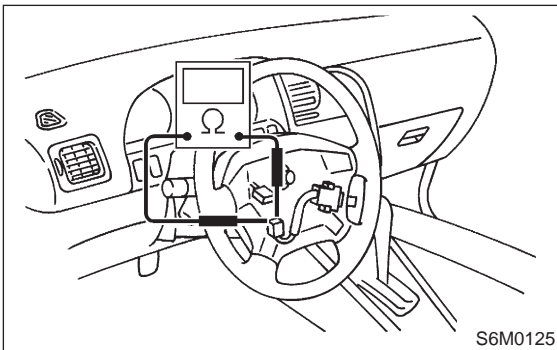
NO : Replace cruise control command switch. <Ref. to 6-2 [W11B3].>

8E7 : CHECK CRUISE CONTROL COMMAND SWITCH.

Measure resistance between terminals of cruise control command switch connector (switch side) to check the switch operation.

Terminals

No. 1 — No. 2:



S6M0125

CHECK : *Is resistance more than 1 MΩ? (When SET/COAST switch is OFF.)*

YES : Go to step 8E8.

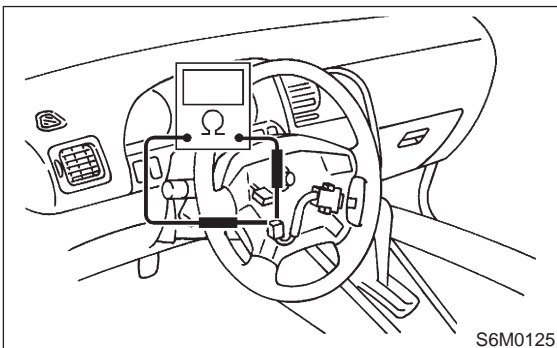
NO : Replace cruise control command switch. <Ref. to 6-2 [W11B3].>

8E8 : CHECK CRUISE CONTROL COMMAND SWITCH.

Measure resistance between terminals of cruise control command switch connector (switch side) to check the switch operation.

Terminals

No. 1 — No. 3:



S6M0125

CHECK : *Is resistance less than 10 Ω? (When RESUME/ACCEL switch is ON.)*

YES : Go to step 8E9.

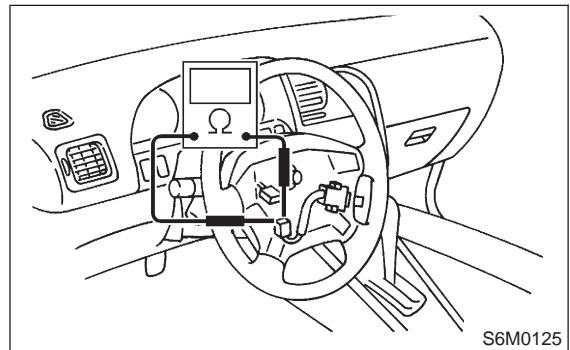
NO : Replace cruise control command switch. <Ref. to 6-2 [W11B3].>

8E9 : CHECK CRUISE CONTROL COMMAND SWITCH.

Measure resistance between terminals of cruise control command switch connector (switch side) to check the switch operation.

Terminals

No. 1 — No. 3:



S6M0125

CHECK : *Is resistance more than 1 MΩ? (When RESUME/ACCEL switch is OFF.)*

YES : Go to step 8E10.

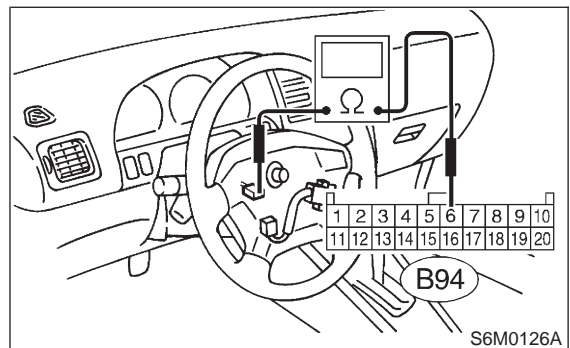
NO : Replace cruise control command switch. <Ref. to 6-2 [W11B3].>

8E10 : CHECK HARNESS CONNECTOR BETWEEN CRUISE CONTROL COMMAND SWITCH AND CRUISE CONTROL MODULE.

- 1) Disconnect connector from cruise control module.
- 2) Measure resistance of harness connector between cruise control command switch and cruise control module.

Connector & terminal

No. 2 (command switch) — (B94) No. 6:



S6M0126A

CHECK : *Is resistance less than 10 Ω?*

YES : Go to step 8E11.

NO : Repair or replace wiring harness.

6-2 [T8E11] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

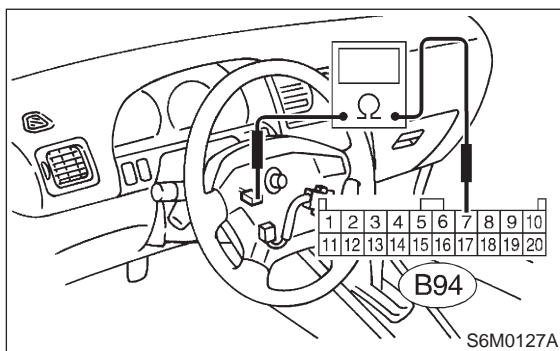
8. Diagnostics Chart with Diagnostic Code

8E11 : CHECK HARNESS CONNECTOR BETWEEN CRUISE CONTROL COMMAND SWITCH AND CRUISE CONTROL MODULE.

Measure resistance of harness connector between cruise control command switch and cruise control module.

Connector & terminal

No. 3 (command switch) — (B94) No. 7:



- CHECK** : **Is resistance less than 10 Ω?**
- YES** : Replace cruise control module. <Ref. to 6-2 [W11B4].>
- NO** : Repair or replace wiring harness.

MEMO:

6-2 [T8F0] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

8. Diagnostics Chart with Diagnostic Code

F: DIAGNOSTIC CODE 21, 22 AND 23 (VACUUM VALVE, VENT 2 VALVE, VENT 1 VALVE)

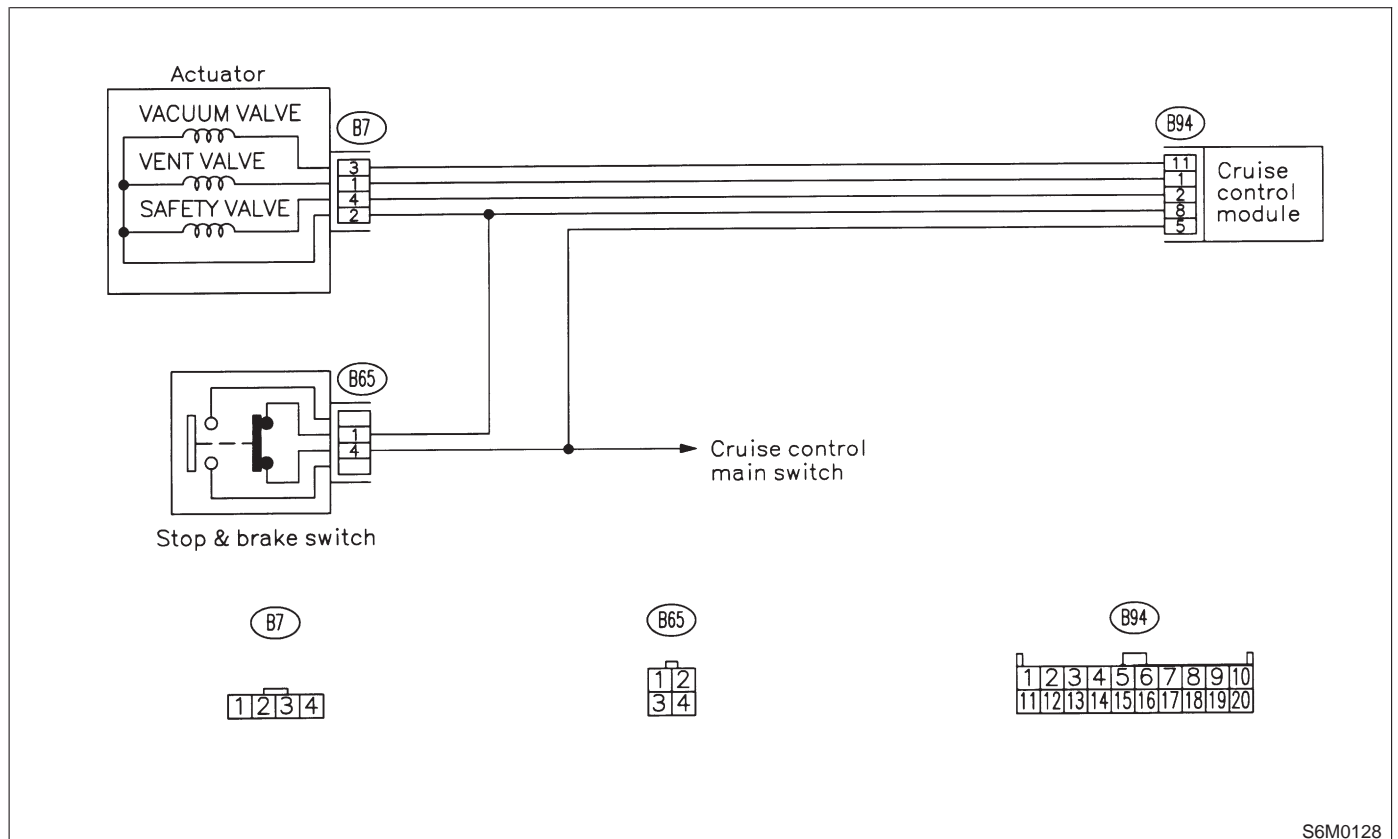
DIAGNOSIS:

- Open or poor contact of vacuum valve, vent 2 valve and vent 1 valve.

TROUBLE SYMPTOM:

- Cruise control cannot be set. (Cancels immediately.)

WIRING DIAGRAM:



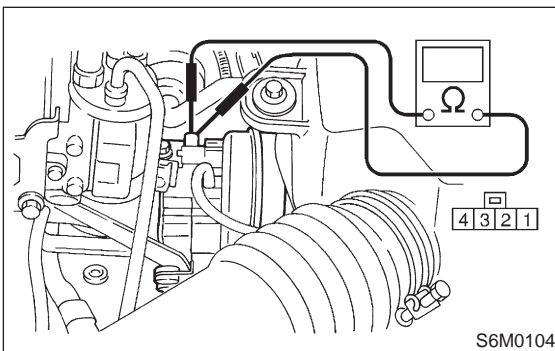
S6M0128

8F1 : MEASURE RESISTANCE OF VACUUM VALVE, VENT 2 VALVE AND VENT 1 VALVE.

- 1) Disconnect connector from actuator.
- 2) Measure resistance of vacuum valve, vent 2 valve and vent 1 valve.

Terminals

No. 2 — No. 3:



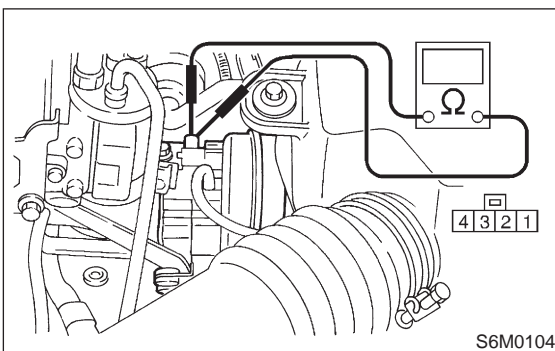
- CHECK** : *Is resistance less than 22 Ω?*
- YES** : Go to step **8F2**.
- NO** : Replace actuator. <Ref. to 6-2 [W11B1].>

8F2 : MEASURE RESISTANCE OF VACUUM VALVE, VENT 2 VALVE AND VENT 1 VALVE.

Measure resistance of vacuum valve, vent 2 valve and vent 1 valve.

Terminals

No. 2 — No. 1:



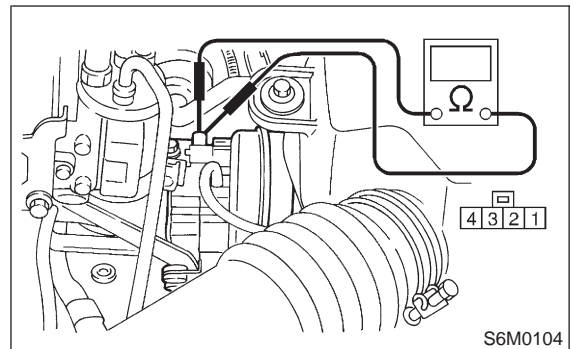
- CHECK** : *Is resistance less than 55 Ω?*
- YES** : Go to step **8F3**.
- NO** : Replace actuator. <Ref. to 6-2 [W11B1].>

8F3 : MEASURE RESISTANCE OF VACUUM VALVE, VENT 2 VALVE AND VENT 1 VALVE.

Measure resistance of vacuum valve, vent 2 valve and vent 1 valve.

Terminals

No. 2 — No. 4:



- CHECK** : *Is resistance less than 55 Ω?*
- YES** : Go to step **8F4**.
- NO** : Replace actuator. <Ref. to 6-2 [W11B1].>

6-2 [T8F4] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

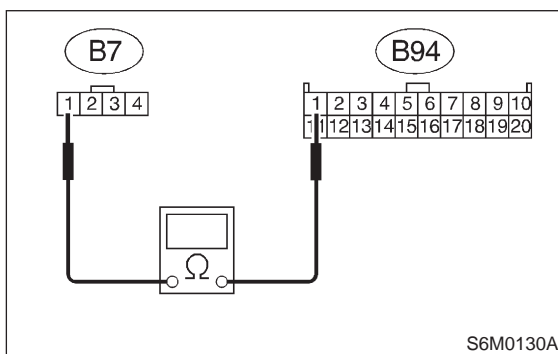
8. Diagnostics Chart with Diagnostic Code

8F4 : PERFORM A CIRCUIT TEST IN HARNESS BETWEEN ACTUATOR (VACUUM VALVE, VENT 2 VALVE AND VENT 1 VALVE) AND CRUISE CONTROL MODULE.

- 1) Disconnect connector from cruise control module.
- 2) Measure resistance of harness connector between cruise control module, vacuum valve, vent 2 valve and vent 1 valve.

Connector & terminal

(B7) No. 1 — (B94) No. 1:



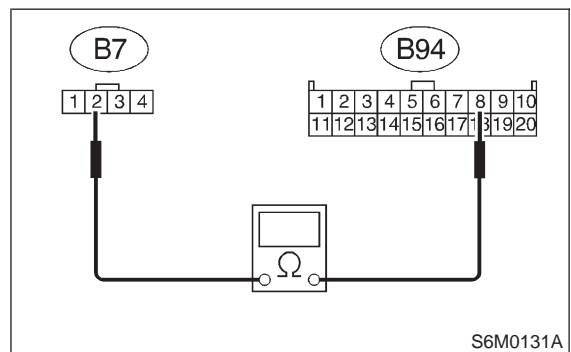
- CHECK** : Is resistance less than 10 Ω?
- YES** : Go to step 8F5.
- NO** : Repair or replace wiring harness between actuator <Ref. to 6-2 [W11B1].> and cruise control module <Ref. to 6-2 [W11B4].>.

8F5 : PERFORM A CIRCUIT TEST IN HARNESS BETWEEN ACTUATOR (VACUUM VALVE, VENT 2 VALVE AND VENT 1 VALVE) AND CRUISE CONTROL MODULE.

Measure resistance of harness connector between cruise control module, vacuum valve, vent 2 valve and vent 1 valve.

Connector & terminal

(B7) No. 2 — (B94) No. 8:

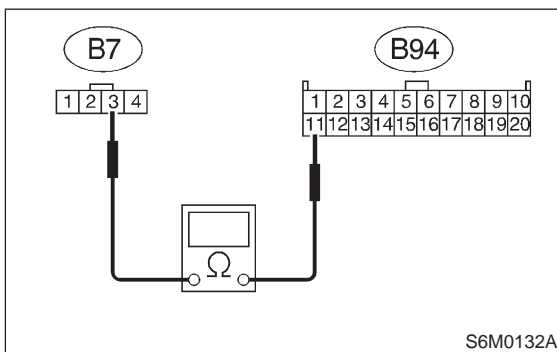


- CHECK** : Is resistance less than 10 Ω?
- YES** : Go to step 8F6.
- NO** : Repair or replace wiring harness between actuator <Ref. to 6-2 [W11B1].> and cruise control module <Ref. to 6-2 [W11B4].>.

8F6 : PERFORM A CIRCUIT TEST IN HARNESS BETWEEN ACTUATOR (VACUUM VALVE, VENT 2 VALVE AND VENT 1 VALVE) AND CRUISE CONTROL MODULE.

Measure resistance of harness connector between cruise control module, vacuum valve, vent 2 valve and vent 1 valve.

Connector & terminal
(B7) No. 3 — (B94) No. 11:

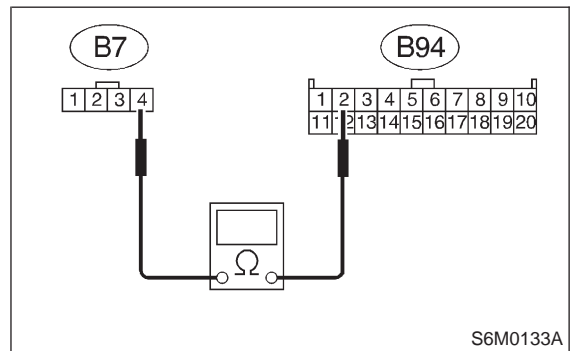


- CHECK** : **Is resistance less than 10 Ω?**
- YES** : Go to step **8F7**.
- NO** : Repair or replace wiring harness between actuator <Ref. to 6-2 [W11B1].> and cruise control module <Ref. to 6-2 [W11B4].>.

8F7 : PERFORM A CIRCUIT TEST IN HARNESS BETWEEN ACTUATOR (VACUUM VALVE, VENT 2 VALVE AND VENT 1 VALVE) AND CRUISE CONTROL MODULE.

Measure resistance of harness connector between cruise control module, vacuum valve, vent 2 valve and vent 1 valve.

Connector & terminal
(B7) No. 4 — (B94) No. 2:



- CHECK** : **Is resistance less than 10 Ω?**
- YES** : Replace cruise control module.
- NO** : Repair or replace wiring harness between actuator <Ref. to 6-2 [W11B1].> and cruise control module <Ref. to 6-2 [W11B4].>.

6-2 [T8G0] BODY ELECTRICAL SYSTEM (CRUISE CONTROL)

9. Diagnostics Chart with Select Monitor

G: DIAGNOSTIC CODE 25 (CRUISE CONTROL MODULE BUILT-IN RELAY, CPU RAM)

DIAGNOSIS:

- Poor welding of built-in relay of cruise control module.
- Failure of built-in CPU RAM of cruise control module.

TROUBLE SYMPTOM:

- Cruise control is canceled and memorized cruise speed is also canceled.
- Once cruise control is canceled, cruise control cannot be set until the ignition switch and cruise control main switch turns OFF, and then turns ON again.

NOTE:

Check input/output signal and vehicle speed signal with select monitor. When signals are in good condition, failure is in cruise control module. (Check power supply and ground conditions of cruise control module.)

9. Diagnostics Chart with Select Monitor

A: FUNCTION MODE

NOTE:

Applicable select monitor cartridge:
No. 24082AA090

Select the "Cruise Control" system using the select monitor and set the "Current Data Display & Save" mode. The following parameters will then appear on the display.

- Vehicle Speed

The current vehicle speed is shown on the display.

- Stop Lamp Switch

When the brake pedal is depressed, the stop lamp switch shown on the display turns from "OFF" to "ON".

- Brake Switch

When the brake pedal is depressed, the brake switch shown on the display turns from "OFF" to "ON".

- "SET/COAST" Switch

When the cruise control command switch is placed in the "SET/COAST" position, the SET/COAST switch shown on the display turns from "OFF" to "ON".

- "RESUME/ACCEL" Switch

When the cruise control command switch is placed in the "RESUME/ACCEL" position, the RESUME/ACCEL switch shown on the display turns from "OFF" to "ON".

- Clutch/Inhibitor Switch

When the clutch pedal is depressed, the clutch/inhibitor switch shown on the display turns from "ON" to "OFF". (MT models)

When the selector lever is moved from the "N" or "P" position to any other position, the clutch/inhibitor switch shown on the display turns from "ON" to "OFF".