5. Security System

A: PRECAUTION

1. SUPPLEMENTAL RESTRAINT SYSTEM "AIRBAG"

Airbag system wiring harness is routed near the security control module.

CAUTION:
● All airbag system wiring harness and connectors are yellow. Do not use electrical test equipment on these circuits.
● Be careful not to damage airbag system wiring harness when servicing the security control module.

B: PRE-INSPECTION

1. FUSE

5B11 : CHECK FUSE.

Remove and visually check the fuse No. 7 (in main fuse box).

CHECK : ***Is fuse No. 7 blown?***
YES : Replace fuse (20 A).
NO : Go to step **5B12**.

5B12 : CHECK FUSE.

Remove and visually check the fuse No. 2 (in main fuse box).

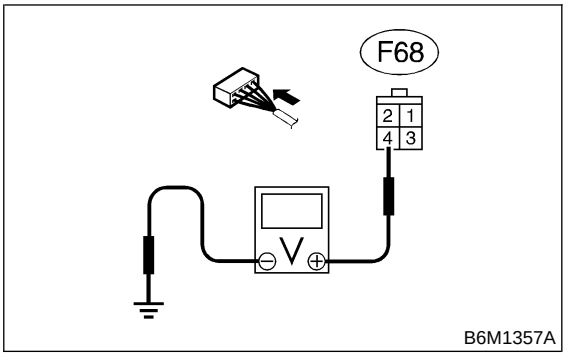
CHECK : ***Is fuse No. 2 blown?***
YES : Replace fuse (15 A).
NO : Go to step **5B21**.

2. POWER SUPPLY CIRCUIT

5B21 : CHECK POWER SUPPLY CIRCUIT.

Measure voltage between main fuse box connector (F68) and chassis ground.

Connector & terminal
(F68) No. 4 (+) — Chassis ground (−):

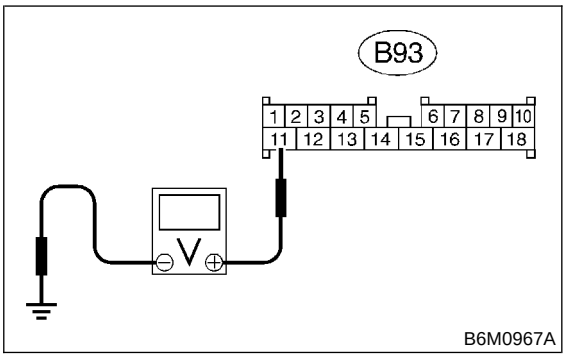


CHECK : ***Is the voltage more than 10 V?***
YES : Go to step **5B22**.
NO : Repair wiring harness between main fuse box and battery.

5B22 : CHECK POWER SUPPLY CIRCUIT.

1) Disconnect connector from security control module.
2) Measure voltage between security control module connector (B93) and chassis ground.

Connector & terminal
(B93) No. 11 (+) — Chassis ground (−):

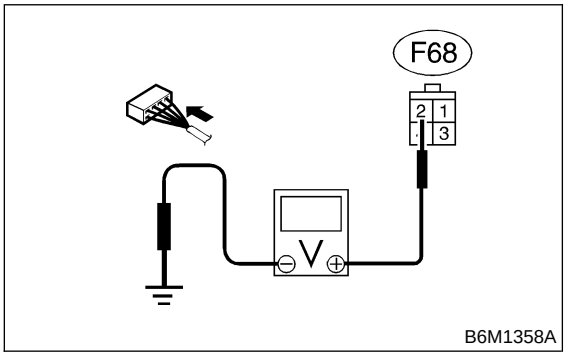


CHECK : ***Is the voltage more than 10 V?***
YES : Go to step **5B23**.
NO : Repair wiring harness between security control module and main fuse box.

5B23 : CHECK POWER SUPPLY CIRCUIT.

Measure voltage between main fuse box connector (F68) and chassis ground.

Connector & terminal
(F68) No. 2 (+) — Chassis ground (−):

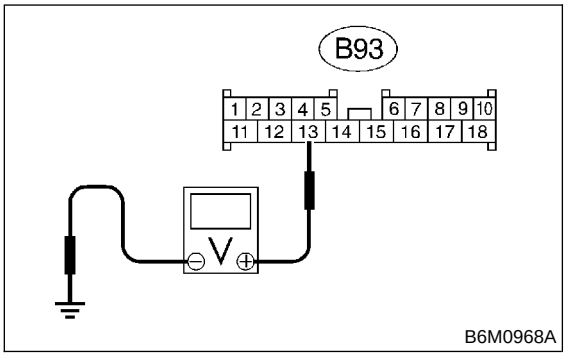


CHECK : ***Is the voltage more than 10 V?***
YES : Go to step **5B24**.
NO : Repair wiring harness between main fuse box and battery.

5B24 : CHECK POWER SUPPLY CIRCUIT.

Measure voltage between security control module connector (B93) and chassis ground.

Connector & terminal
(B93) No. 13 (+) — Chassis ground (−):



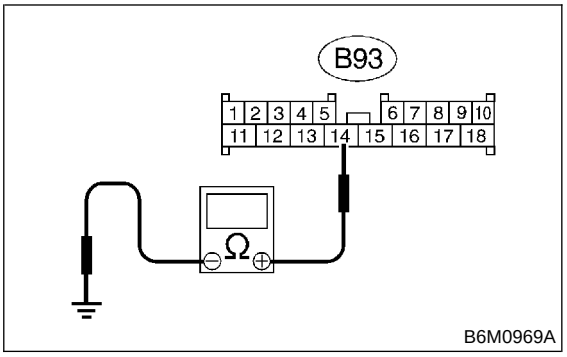
CHECK : ***Is the voltage more than 10 V?***
YES : Go to step **5B31**.
NO : Repair wiring harness between security control module and main fuse box.

3. GROUND CIRCUIT

5B31 : CHECK GROUND CIRCUIT.

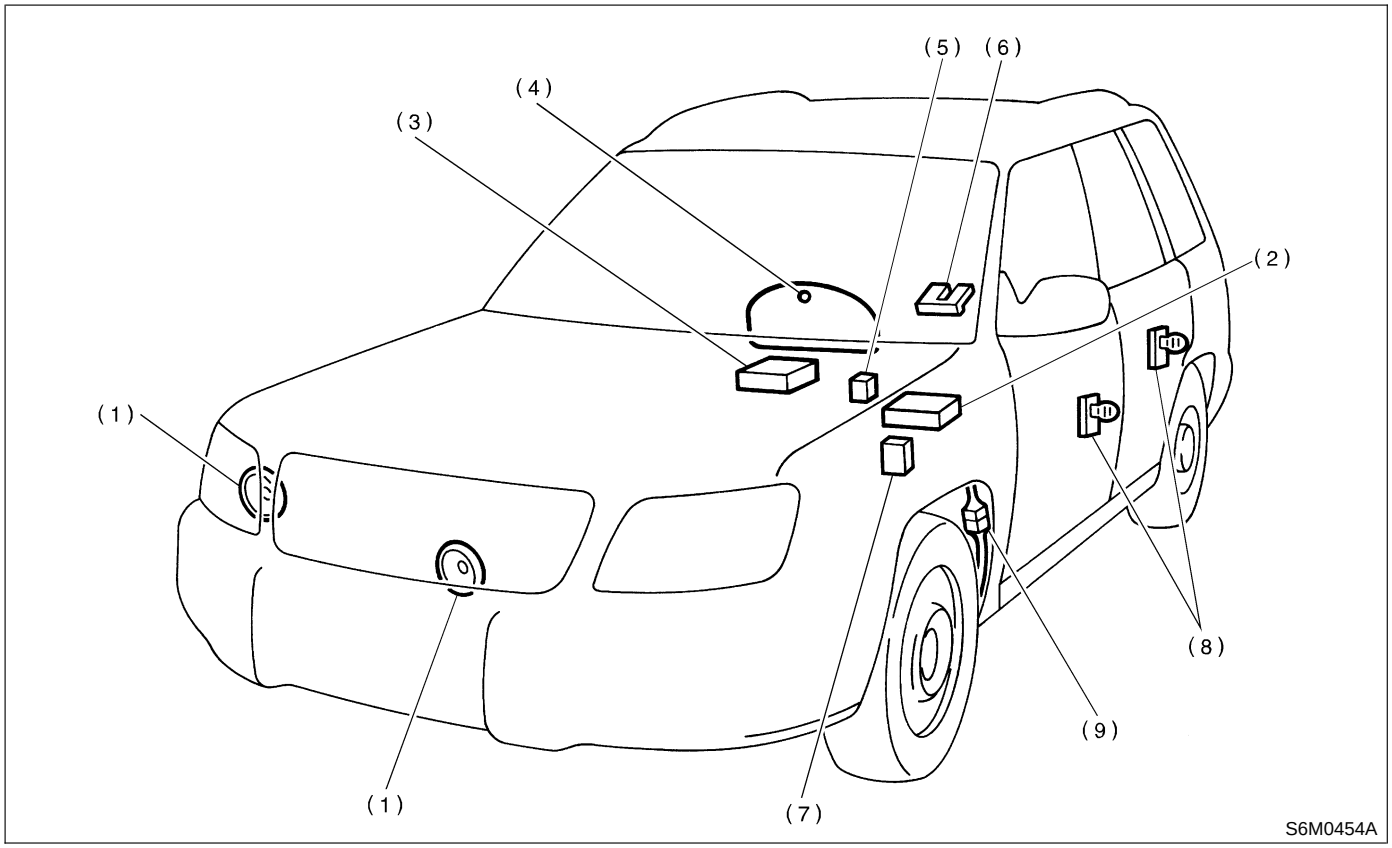
Measure resistance between security control module connector (B93) and chassis ground.

Connector & terminal
(B93) No. 14 (+) — Chassis ground:



CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F11**.
NO : Repair wiring harness between security control module and chassis ground.

C: ELECTRICAL COMPONENTS LOCATION



(1) Horn
(2) Keyless entry control module
(3) Security control module (under console box)
(4) Security indicator light (in combination meter)
(5) Horn relay (in main fuse box)
(6) Rear gate latch switch
(7) Interrupt relay (behind the fuse box)
(8) Door switch
(9) Passive arm connector (on driver side front lower pillar)

D: SCHEMATIC

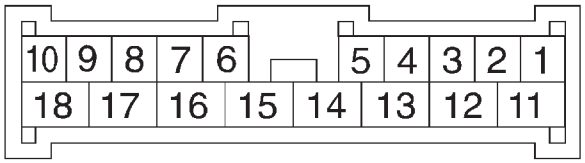
s6m0455

S6M0455

s6m0456

S6M0456

E: CONTROL MODULE I/O SIGNAL



B6M0972

Content	Terminal No.	Measuring condition
Empty	1	—
Ignition switch (ON)	2 (INPUT)	Battery voltage is present when ignition switch is turned ON.
Passive arm	3	—
Empty	4	—
Door switch and rear gate latch switch	5 (INPUT)	0 V is present when any door is open.
Empty	6	—
Keyless entry control module	7	—
Keyless entry control module	8	—
Security indicator light	9 (OUTPUT)	0 V is present when activating the alarm operation.
Keyless entry control module	10	—
Power supply for clearance light (Back-up)	11	Battery voltage is constantly present.
Clearance light	12 (OUTPUT)	Battery voltage is present when activating the alarm operation.
Power supply (Back-up)	13	Battery voltage is constantly present.
Ground	14	—
Interrupt relay	15 (OUTPUT)	0 V is present when activating the alarm operation.
Empty	16	—
Empty	17	—
Empty	18	—

F: DIAGNOSTICS PROCEDURE

1. BASIC DIAGNOSTICS PROCEDURE

5F11 : CHECK SECURITY SYSTEM FUNCTION.

1) Perform basic diagnostics procedure of keyless entry system. <Ref. to 6-2 [T4F1].>
2) Perform pre-inspection. <Ref. to 6-2 [T5B0].>
3) Open all windows.
4) Remove ignition key from ignition switch.
5) Set the room light switch in the middle position.
6) Close all doors and the rear gate.
7) Press the LOCK/ARM button one time.

CHECK : ***Does the clearance light blink one time?***
YES : Go to step **5F12**.
NO : Go to step **5F21**.

5F12 : CHECK SECURITY SYSTEM FUNCTION.

Check if the security indicator light blinks.

CHECK : ***Does the security indicator light blink every 2 seconds?***
YES : Go to step **5F13**.
NO : Go to step **5F31**.

5F13 : CHECK SECURITY SYSTEM FUNCTION.

Press the UNLOCK/DISARM button one time.

CHECK : ***Does the clearance light blink two times?***
YES : Go to step **5F14**.
NO : Replace security control module. <Ref. to 6-2 [W14A1].>

5F14 : CHECK SECURITY SYSTEM FUNCTION.

Check if the room light activates.

CHECK : ***Does the room light turn on for 30 seconds and then turn off?***
YES : Go to step **5F15**.
NO : Replace security control module. <Ref. to 6-2 [W14A1].>

5F15 : CHECK SECURITY SYSTEM FUNCTION.

1) Unlock all doors with door locking switch in the front door.
2) Open the front left door.

CHECK : ***Does the security indicator light blink every 1/8 seconds?***
YES : Go to step **5F16**.
NO : Go to step **5F41**.

5F16 : CHECK SECURITY SYSTEM FUNCTION.

Check if the clearance light activates.

CHECK : ***Does the clearance light blinking remain?***
YES : Go to step **5F17**.
NO : Replace security control module. <Ref. to 6-2 [W14A1].>

5F17 : CHECK SECURITY SYSTEM FUNCTION.

Check if the horn activates.

CHECK : ***Does the horn sound remain?***
YES : Go to step **5F18**.
NO : Replace security control module. <Ref. 6-2 [W14A1].>

5F18 : CHECK SECURITY SYSTEM FUNCTION.

Turn on starter.

CHECK : ***Does the starter motor activate?***
YES : Go to step **5F51**.
NO : Go to step **5F19**.

5F19 : CHECK SECURITY SYSTEM FUNCTION.

Close the front left door.

CHECK : ***Does the horn sound and clearance light blinking deactivate, and starter motor activate after approximately 30 seconds?***
YES : Go to step **5F110**.
NO : Replace security control module. <Ref. to 6-2 [W14A1].>

5F110 : CHECK SECURITY SYSTEM FUNCTION.

Check if the security indicator light activates.

CHECK : ***Does the security indicator light blink every 2 seconds?***
YES : Go to step **5F111**.
NO : Replace security control module. <Ref. to 6-2 [W14A1].>

5F111 : CHECK SECURITY SYSTEM FUNCTION.

Open the front right door.

CHECK : ***Does the security indicator light blink every 1/8 seconds, the horn sound, the clearance light blink, and the starter motor deactivate?***
YES : Go to step **5F112**.
NO : Go to step **5F61**.

5F112 : CHECK SECURITY SYSTEM FUNCTION.

Press the UNLOCK/DISARM button.

CHECK : ***Does the security indicator light blink, the horn and clearance light deactivate, and the starter motor activate?***
YES : Go to step **5F113**.
NO : Replace security control module. <Ref. to 6-2 [W14A1].>

5F113 : CHECK SECURITY SYSTEM FUNCTION.

1) Close the front right door.
2) Press the LOCK/ARM button.
3) Open the rear left door.

CHECK : ***Does the security indicator light blink every 1/8 seconds, the horn sound, the clearance light blink, and the starter motor deactivate?***
YES : Go to step **5F114**.
NO : Go to step **5F71**.

5F114 : CHECK SECURITY SYSTEM FUNCTION.

1) Close the rear left door.
2) Open the rear right door.

CHECK : ***Does the security indicator light blink every 1/8 seconds, the horn sound, the clearance light blink, and the starter motor deactivate?***
YES : Go to step **5F115**.
NO : Go to step **5F81**.

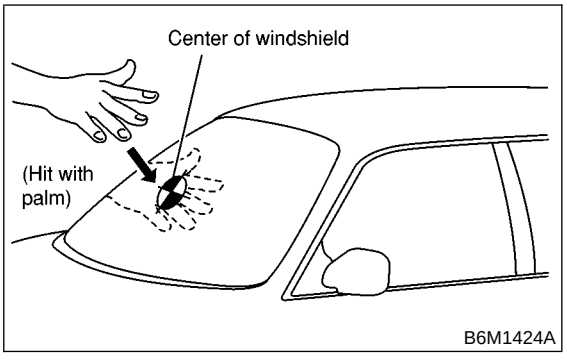
5F115 : CHECK SECURITY SYSTEM FUNCTION.

1) Close the rear right door.
2) Open the rear gate.

CHECK : ***Does the security indicator light blink every 1/8 seconds, the horn sound, the clearance light blink, and the starter motor deactivate?***
YES : Go to step **5F116**.
NO : Go to step **5F91**.

5F116 : PERFORM IMPACT SENSITIVITY TEST.

1) Close the rear gate.
2) Close all windows.
3) Perform arming.
4) Perform impact sensitivity test.



CHECK : ***Does the horn chirp?***
YES : Go to step **5F117**.
NO : Go to step **5F101**.

5F117 : CHECK PASSIVE ARM.

1) Remove the driver's side sill cover. <Ref. to 5-3 [W5A0].>
2) Connect the white connector (1-pin) at driver side front lower pillar.
3) Close all doors and the rear gate.

CHECK : ***Does the arming automatically function after 1 minute?***
YES : Go to step **5F118**.
NO : Go to step **5F111**.

5F118 : CHECK BATTERY DISCONNECT PROTECTION.

1) Press the UNLOCK/DISARM button.
2) Connect the white connector (1-pin) at front pillar lower.
3) Install the driver's side sill cover. <Ref. to 5-3 [W5A0].>
4) Open the front hood.
5) Press the LOCK/ARM button.
6) Disconnect the ground cable from battery.
7) Connect the ground cable to battery.

CHECK : ***Does re-arming function automatically?***
YES : End of basic diagnostics procedure. Press the UNLOCK/DISARM button, and then close all doors and the rear gate. Perform ignition switch position turned LOCK to ON to LOCK.
NO : Replace security control module. <Ref. to 6-2 [W14A1].>

2. DIAGNOSTICS ITEM 1

5F21 : CHECK FUSE.

Remove and visually check fuse No. 7 (in main fuse box).

CHECK : ***Is fuse No. 7 blown?***
YES : Replace fuse (20 A).
NO : Go to step **5F22**.

5F22 : CHECK FUSE.

Remove and visually check fuse No. 5 (in fuse box).

CHECK : ***Is fuse No. 5 blown?***
YES : Replace fuse (10 A).
NO : Go to step **5F23**.

5F23 : CHECK CLEARANCE LIGHT BULB.

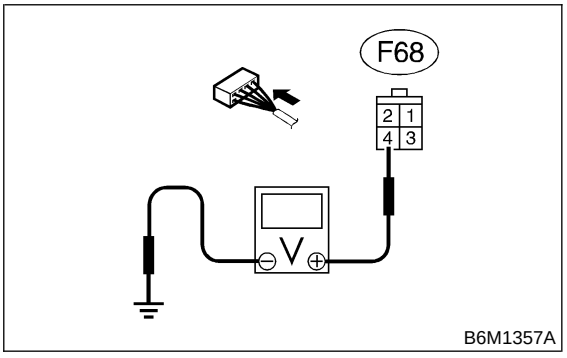
Remove and visually check each clearance light bulb.

CHECK : ***Is the bulb blown?***
YES : Replace clearance light bulb.
NO : Go to step **5F24**.

5F24 : CHECK POWER SUPPLY FOR CLEARANCE LIGHT.

Measure voltage between main fuse box connector (F68) and chassis ground.

Connector & terminal
(F68) No. 4 (+) — Chassis ground (−):

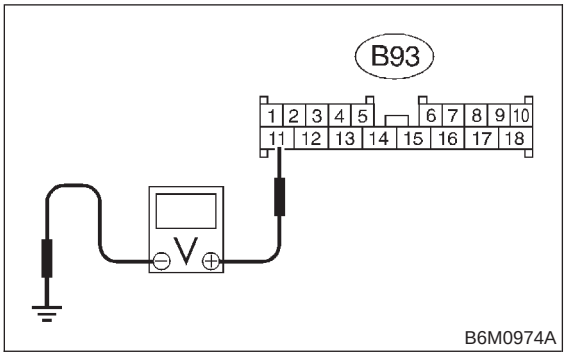


CHECK : ***Is the voltage more than 10 V?***
YES : Go to step **5F25**.
NO : Repair wiring harness between main fuse box and battery.

5F25 : CHECK POWER SUPPLY FOR CLEARANCE LIGHT.

1) Disconnect connector from security control module.
2) Measure voltage between security control module connector (B93) and chassis ground.

Connector & terminal
(B93) No. 11 (+) — Chassis ground (−):

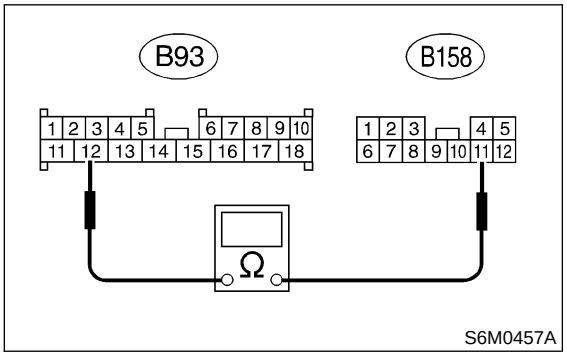


CHECK : ***Is the voltage more than 10 V?***
YES : Go to step **5F26**.
NO : Repair wiring harness between security control module and main fuse box.

5F26 : CHECK HARNESS CONNECTOR BETWEEN SECURITY CONTROL MODULE AND FUSE BOX.

1) Disconnect connector (B158) from fuse box.
2) Measure resistance between security control module connector (B93) and fuse box connector (B158).

Connector & terminal
(B93) No. 12 — (B158) No. 11:

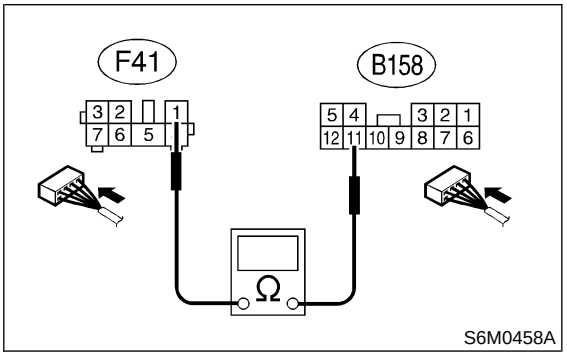


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F27**.
NO : Repair wiring harness between security control module and fuse box.

5F27 : CHECK FUSE BOX CIRCUIT.

1) Connect connector (B158) to fuse box.
2) Measure resistance between fuse box connector (B158) and (F41).

Connector & terminal
(B158) No. 11 — (F41) No. 1:

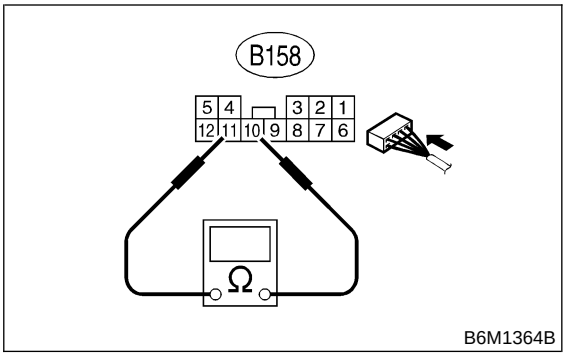


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F28**.
NO : Repair or replace fuse box.

5F28 : CHECK FUSE BOX CIRCUIT.

Measure resistance between fuse box connector (B158).

Connector & terminal
(B158) No. 10 — No. 11:

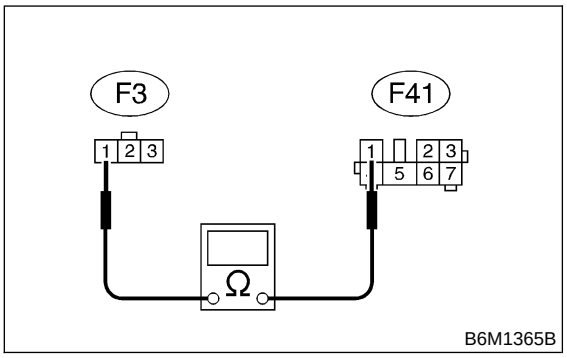


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F29**.
NO : Repair or replace fuse box.

5F29 : CHECK HARNESS CONNECTOR BETWEEN FRONT CLEARANCE LIGHT AND FUSE BOX.

1) Disconnect connector from front clearance light RH and fuse box.
2) Measure resistance between front clearance light RH connector (F3) and fuse box connector (F41).

Connector & terminal
(F3) No. 1 — (F41) No. 1:

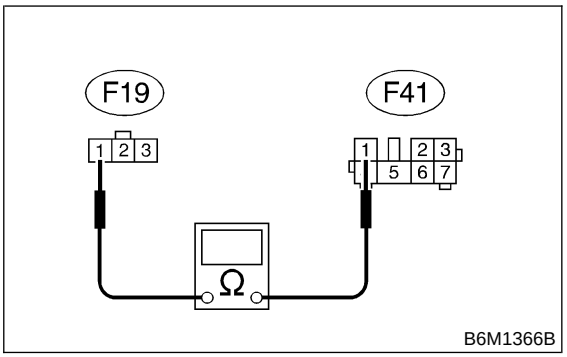


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F210**.
NO : Repair wiring harness between front clearance light RH and fuse box.

5F210 : CHECK HARNESS CONNECTOR BETWEEN FRONT CLEARANCE LIGHT AND FUSE BOX.

1) Disconnect connector from front clearance light LH.
2) Measure resistance between front clearance light LH connector (F19) and fuse box connector (F41).

Connector & terminal
(F19) No. 1 — (F41) No. 1:

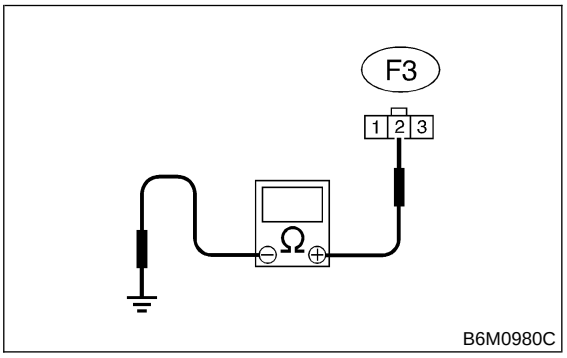


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F211**.
NO : Repair wiring harness between front clearance light LH and fuse box.

5F211 : CHECK HARNESS CONNECTOR BETWEEN FRONT CLEARANCE LIGHT AND CHASSIS GROUND.

Measure resistance between front clearance light RH connector (F3) and chassis ground.

Connector & terminal
(F3) No. 2 (+) — Chassis ground (−):

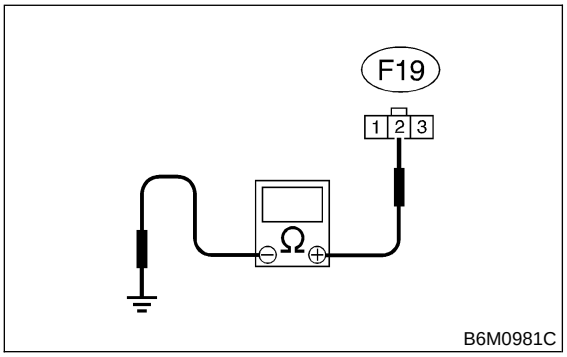


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F212**.
NO : Repair wiring harness between front clearance light RH and chassis ground.

5F212 : CHECK HARNESS CONNECTOR BETWEEN FRONT CLEARANCE LIGHT AND CHASSIS GROUND.

Measure resistance between front clearance light LH connector (F19) and chassis ground.

Connector & terminal
(F19) No. 2 (+) — Chassis ground (−):

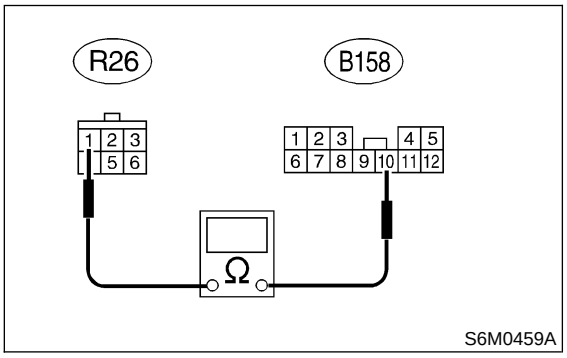


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F213**.
NO : Repair wiring harness between front clearance light LH and chassis ground.

5F213 : CHECK HARNESS CONNECTOR BETWEEN REAR CLEARANCE LIGHT AND FUSE BOX.

1) Disconnect connector from rear clearance light RH and fuse box.
2) Measure resistance between rear clearance light RH connector (R26) and fuse box connector (B158).

Connector & terminal
(R26) No. 1 — (B158) No. 10:

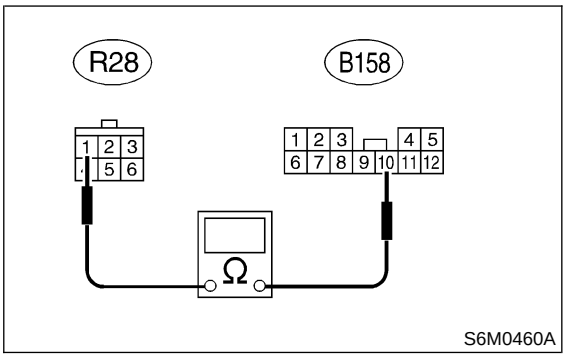


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F214**.
NO : Repair wiring harness between rear clearance light RH and fuse box.

5F214 : CHECK HARNESS CONNECTOR BETWEEN REAR CLEARANCE LIGHT AND FUSE BOX.

1) Disconnect connector from rear clearance light LH.
2) Measure resistance between rear clearance light LH connector (R28) and fuse box connector (B158).

Connector & terminal
(R28) No. 1 — (B158) No. 10:

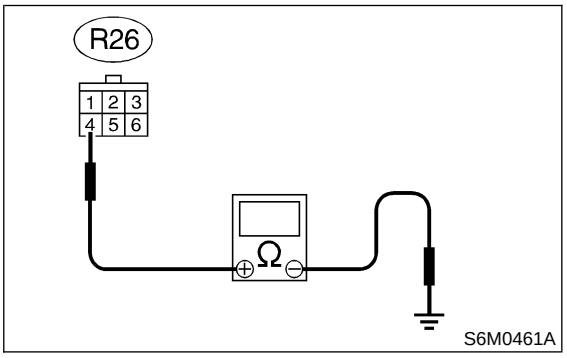


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F215**.
NO : Repair wiring harness between rear clearance light LH and fuse box.

5F215 : CHECK HARNESS CONNECTOR BETWEEN REAR CLEARANCE LIGHT AND CHASSIS GROUND.

Measure resistance between rear clearance light RH connector (R26) and chassis ground.

Connector & terminal
(R26) No. 4 (+) — Chassis ground (−):

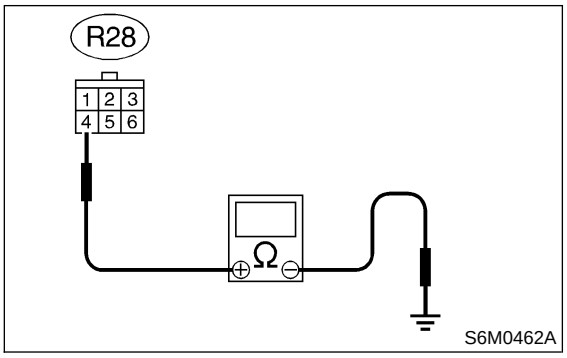


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F216**.
NO : Repair wiring harness between rear clearance light RH and chassis ground.

5F216 : CHECK HARNESS CONNECTOR BETWEEN REAR CLEARANCE LIGHT AND CHASSIS GROUND.

Measure resistance between rear clearance light LH connector (R28) and chassis ground.

Connector & terminal
(R28) No. 4 (+) — Chassis ground (−):



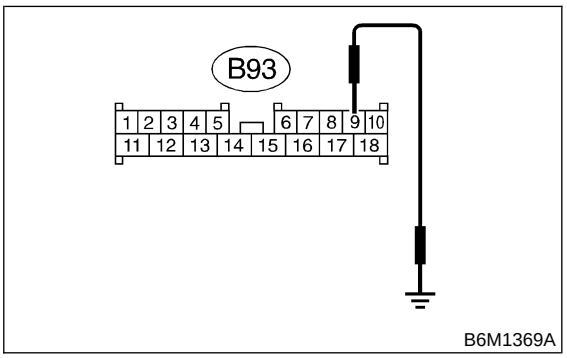
CHECK : ***Is the resistance less than 10 Ω?***
YES : Replace security control module. <Ref. to 6-2 [W14A1].>
NO : Repair wiring harness between rear clearance light LH and chassis ground.

3. DIAGNOSTICS ITEM 2

5F31 : CHECK SECURITY INDICATOR LIGHT COMES ON.

1) Disconnect connector from security control module.
2) Measure resistance between security control module connector (B93) and chassis ground.

Connector & terminal
(B93) No. 9 (+) — Chassis ground (−):

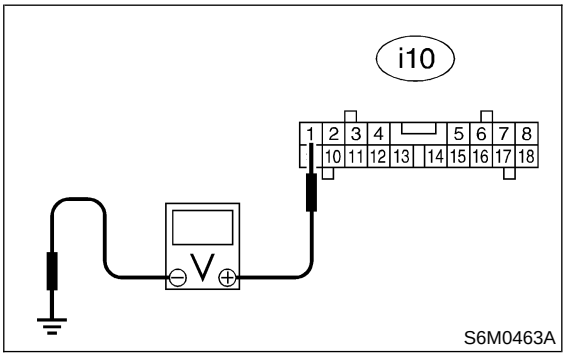


CHECK : ***Does the indicator light come on?***
YES : Replace security control module. <Ref. to 6-2 [W14A1].>
NO : Go to step **5F32**.

5F32 : CHECK POWER SUPPLY FOR SECURITY INDICATOR LIGHT.

1) Disconnect connector from combination meter.
2) Measure voltage between combination meter connector (i10) and chassis ground.

Connector & terminal
(i10) No. 1 (+) — Chassis ground (−):

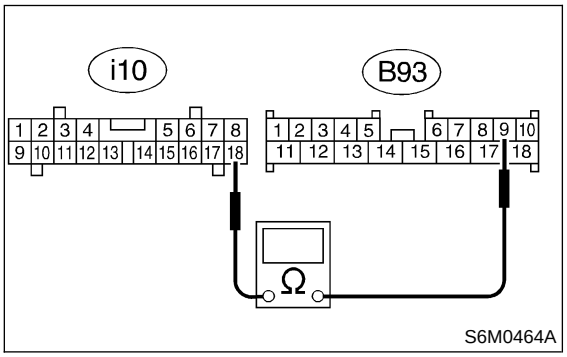


CHECK : ***Is the voltage more than 10 V?***
YES : Go to step **5F33**.
NO : Repair wiring harness between security indicator light and main fuse box.

5F33 : CHECK HARNESS CONNECTOR BETWEEN SECURITY INDICATOR LIGHT AND SECURITY CONTROL MODULE.

Measure resistance between combination meter connector (i10) and security control module connector (B93).

Connector & terminal
(i10) No. 18 — (B93) No. 9:



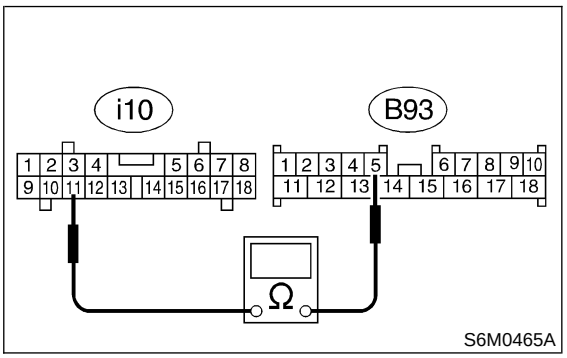
CHECK : ***Is the resistance less than 10 Ω?***
YES : Replace combination meter printed circuit.
NO : Repair wiring harness between security indicator light and security control module.

4. DIAGNOSTICS ITEM 3

5F41 : CHECK HARNESS CONNECTOR BETWEEN SECURITY CONTROL MODULE AND COMBINATION METER.

1) Disconnect connector from security control module and combination meter.
2) Measure resistance between security control module connector (B93) and combination meter connector (i10).

Connector & terminal
(B93) No. 5 — (i10) No. 11:

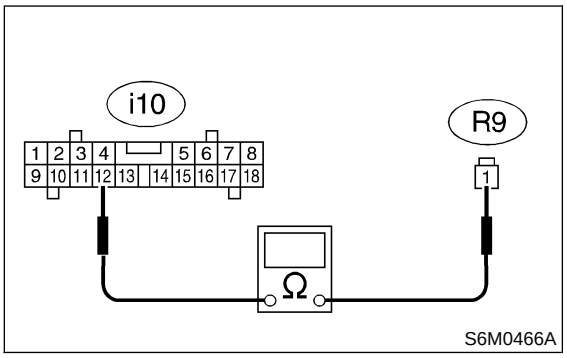


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F42**.
NO : Repair wiring harness between security control module and combination meter.

5F42 : CHECK HARNESS CONNECTOR BETWEEN FRONT DOOR SWITCH LH AND COMBINATION METER.

1) Disconnect connector from front door switch LH.
2) Measure resistance between front door switch LH connector (R9) and combination meter connector (i10).

Connector & terminal
(R9) No. 1 — (i10) No. 12:

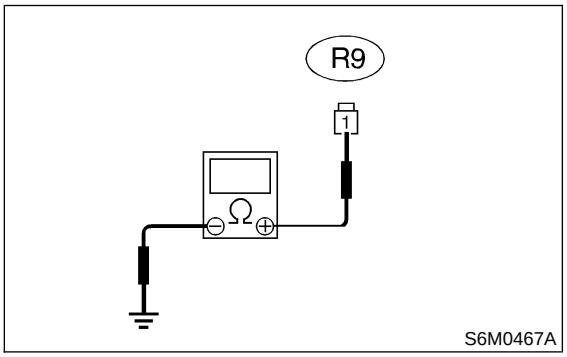


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F43**.
NO : Repair wiring harness between front door switch LH and combination meter.

5F43 : CHECK HARNESS CONNECTOR BETWEEN FRONT DOOR SWITCH LH AND CHASSIS GROUND.

Measure resistance between front door switch LH (R9) and chassis ground.

Connector & terminal
(R9) No. 1 (+) — Chassis ground (−):

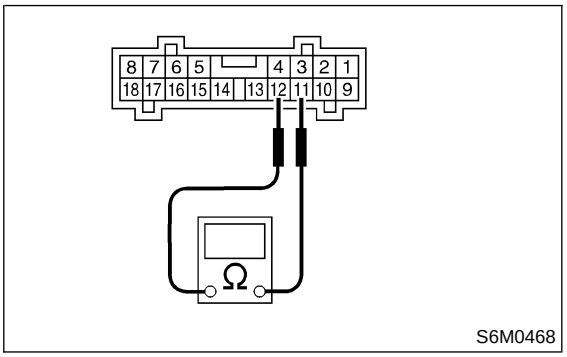


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F44**.
NO : Repair wiring harness between front door switch LH and chassis ground.

5F44 : CHECK COMBINATION METER CIRCUIT.

1) Remove combination meter. <Ref. to 6-2 [W8A0].>
2) Measure resistance between combination meter terminals.

Terminals
No. 11 — No. 12:



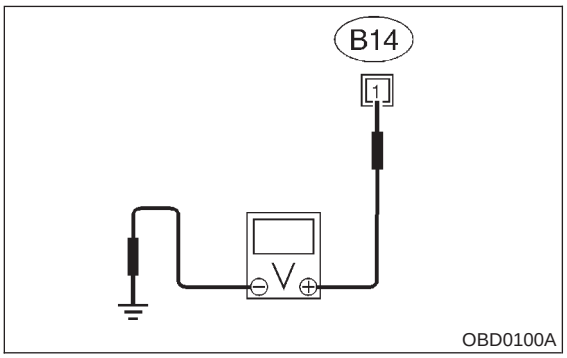
CHECK : ***Is the resistance less than 10 Ω?***
YES : Replace security control module. <Ref. to 6-2 [W14A1].>
NO : Repair or replace combination meter. <Ref. to 6-2 [W800].>

5. DIAGNOSTICS ITEM 4

5F51 : CHECK INPUT SIGNAL FOR STARTER MOTOR.

1) Disconnect connector from starter motor.
2) Turn ignition switch to START.
3) Measure voltage between starter motor connector (B14) and engine ground.

Connector & terminal
(B14) No. 1 (+) — Engine ground (−):



NOTE:
- On AT vehicles, place the select lever in the P or N position.
- On MT vehicles, depress the clutch pedal.

CHECK : ***Is the voltage more than 10 V?***
YES : Go to step **5F52**.
NO : Go to step **5F53**.

5F52 : CHECK GROUND CIRCUIT OF STARTER MOTOR.

1) Turn ignition switch to OFF.
2) Disconnect terminal from starter motor.
3) Measure resistance between ground cable terminal and engine ground.

CHECK : ***Is the resistance less than 5 Ω?***
YES : Check starter motor. <Ref. to 6-1 [W100].>
NO : Repair or replace ground cable.

5F53 : CHECK FUSE.

Remove and visually check the fuse SBF-1 (in main fuse box).

CHECK : ***Is fuse SBF-1 blown?***
YES : Replace SBF fuse (80 A).
NO : Go to step **5F54**.

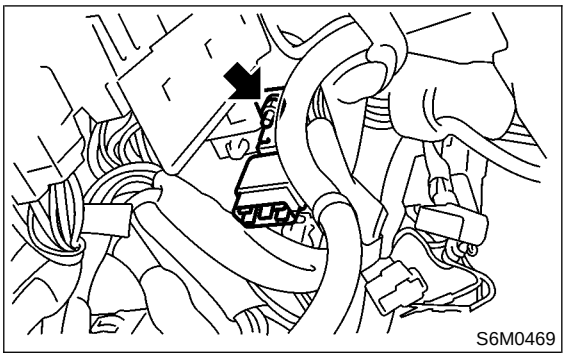
5F54 : CHECK FUSE.

Remove and visually check the fuse SBF-4 (in main fuse box).

CHECK : ***Is fuse SBF-4 blown?***
YES : Replace SBF fuse (50 A).
NO : Go to step **5F55**.

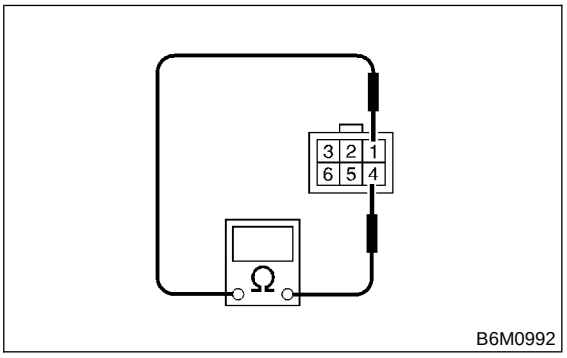
5F55 : CHECK INTERRUPT RELAY.

1) Turn ignition switch to OFF.
2) Remove interrupt relay (behind the fuse box).



3) Check continuity between interrupt relay terminals.

Terminals
No. 1 — No. 4:

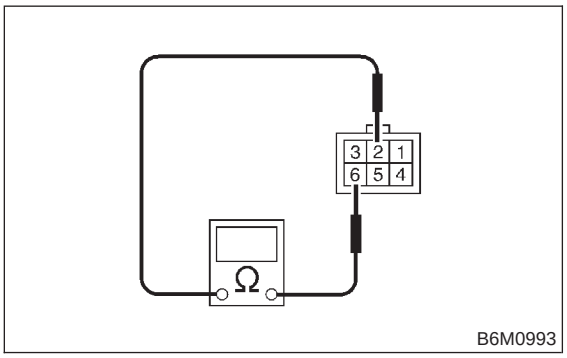


CHECK : ***Does continuity exist?***
YES : Go to step **5F56**.
NO : Replace interrupt relay.

5F56 : CHECK INTERRUPT RELAY.

Check continuity between interrupt relay terminals.

Terminals
No. 2 — No. 6:

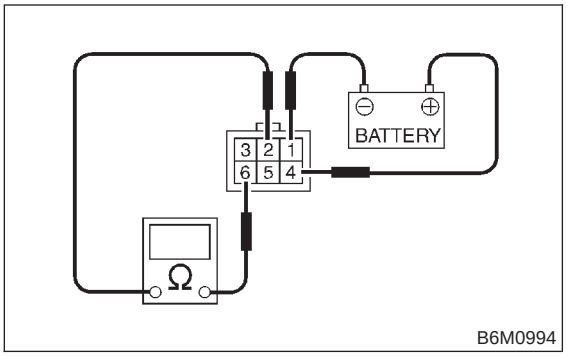


CHECK : ***Does continuity exist?***
YES : Go to step **5F57**.
NO : Replace interrupt relay.

5F57 : CHECK INTERRUPT RELAY.

1) Connect the battery to interrupt relay terminals No. 1 and No. 4.
2) Check continuity between interrupt relay terminals.

Terminals
No. 2 — No. 6:

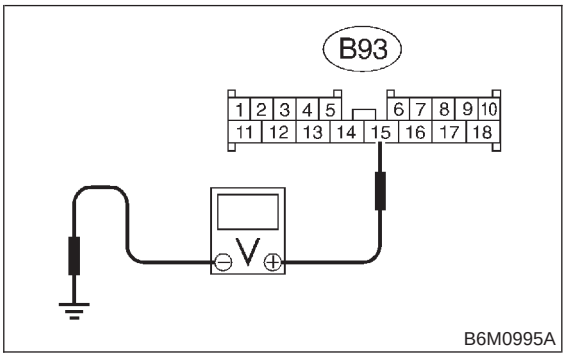


CHECK : ***Does continuity exist?***
YES : Replace interrupt relay.
NO : Go to step **5F58**.

5F58 : CHECK HARNESS CONNECTOR BETWEEN BATTERY AND SECURITY CONTROL MODULE.

1) Install the SBF-4 to main fuse box.
2) Install the interrupt relay.
3) Disconnect connector from security control module.
4) Turn ignition switch to START.
5) Measure voltage between security control module connector (B93) and chassis ground.

Connector & terminal
(B93) No. 15 (+) — Chassis ground (−):



CHECK : ***Is the voltage more than 10 V?***
YES : Go to step **5F59**.
NO : Repair wiring harness between security control module and battery.

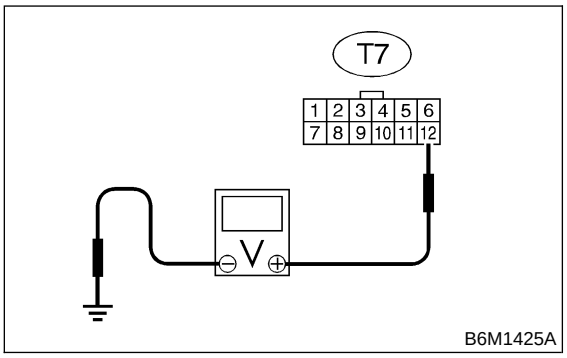
5F59 : CHECK TRANSMISSION TYPE.

CHECK : ***Is the transmission type AT?***
YES : Go to step **5F510**.
NO : Go to step **5F513**.

5F510 : CHECK HARNESS CONNECTOR BETWEEN INTERRUPT RELAY AND INHIBITOR SWITCH.

1) Turn ignition switch to OFF.
2) Disconnect connector from inhibitor switch.
3) Turn ignition switch to START.
4) Measure voltage between inhibitor switch connector (T7) and chassis ground.

Connector & terminal
(T7) No. 12 (+) — Chassis ground (−):

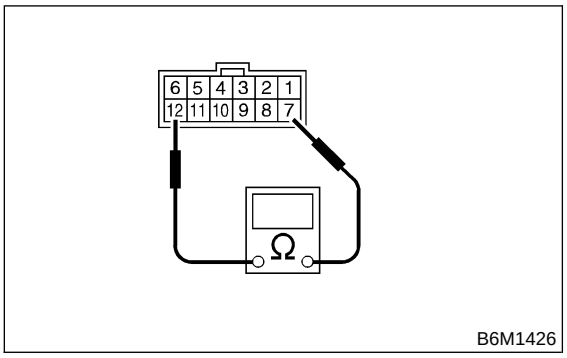


CHECK : ***Is the voltage more than 10 V?***
YES : Go to step **5F511**.
NO : Repair wiring harness between interrupt relay and inhibitor switch.

5F511 : CHECK INHIBITOR SWITCH.

1) Place the select lever in the P or N position.
2) Measure resistance between inhibitor switch terminals.

Terminals
No. 7 — No. 12:

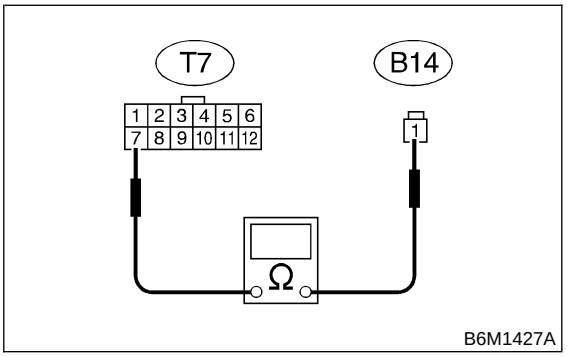


CHECK : ***Is the resistance less than 1 Ω?***
YES : Go to step **5F512**.
NO : Replace inhibitor switch. <Ref. to 3-2 [W200].>

5F512 : CHECK HARNESS BETWEEN INHIBITOR SWITCH AND STARTER MOTOR.

Measure resistance between inhibitor switch connector (T7) and starter motor connector (B14).

Connector & terminal
(T7) No. 7 — (B14) No. 1:

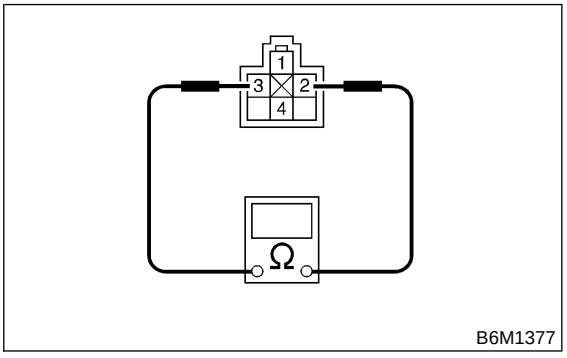


CHECK : ***Is the resistance less than 10 Ω?***
YES : Replace security control module. <Ref. to 6-2 [W14A1].>
NO : Repair wiring harness between inhibitor switch and starter motor.

5F513 : CHECK STARTER INTERLOCK RELAY.

1) Turn ignition switch to OFF.
2) Remove starter interlock relay.
3) Check continuity between starter interlock relay terminals.

Terminals
No. 3 — No. 2:

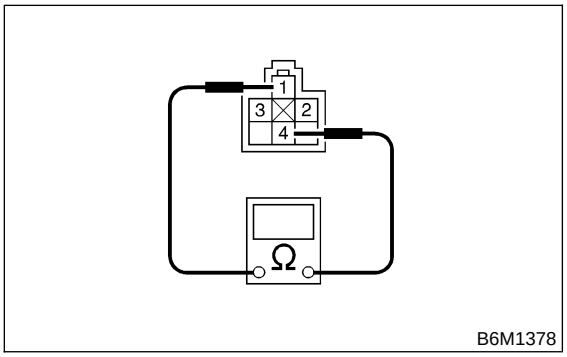


CHECK : ***Does continuity exist?***
YES : Go to step **5F514**.
NO : Replace starter interlock relay.

5F514 : CHECK STARTER INTERLOCK RELAY.

Check continuity between starter interlock relay terminals.

Terminals
No. 1 — No. 4:

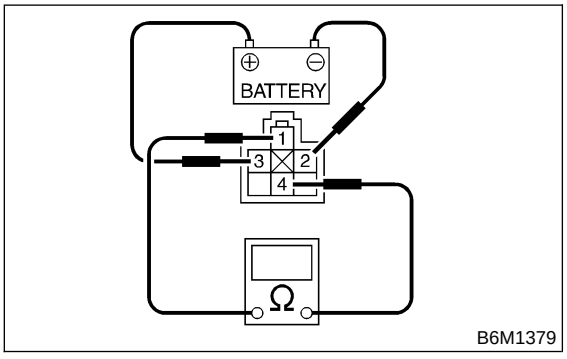


CHECK : ***Does continuity exist?***
YES : Replace starter interlock relay.
NO : Go to step **5F515**.

5F515 : CHECK STARTER INTERLOCK RELAY.

1) Connect the battery to starter interlock relay terminals No. 3 and No. 2.
2) Check continuity between starter interlock relay terminals.

Terminals
No. 1 — No. 4:

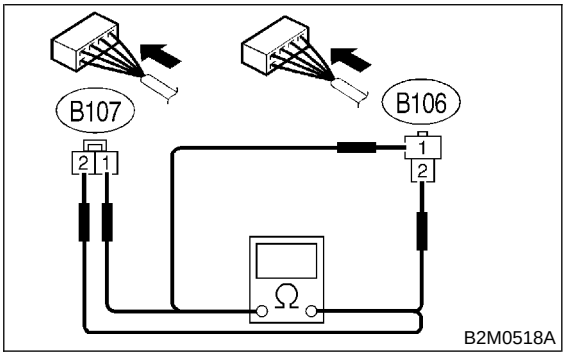


CHECK : ***Does continuity exist?***
YES : Go to step **5F516**.
NO : Replace starter interlock relay.

5F516 : CHECK CLUTCH SWITCH.

1) Install starter interlock relay.
2) Measure resistance between clutch switch connector (B106) and (B107) terminals while depressing the clutch pedal.

Connector & terminal
With cruise control
(B107) No. 1 — No. 2:
Without cruise control
(B106) No. 1 — No. 2:

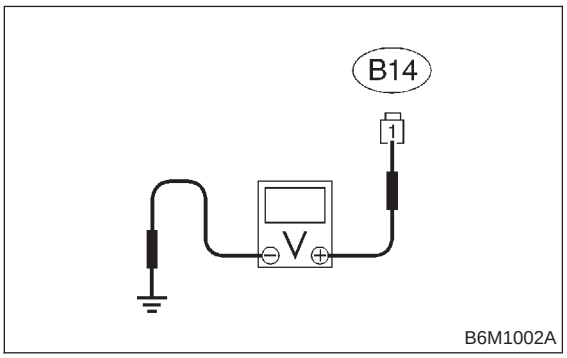


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F517**.
NO : Replace clutch switch.

5F517 : CHECK HARNESS BETWEEN INTERRUPT RELAY AND STARTER MOTOR.

1) Disconnect connector from starter motor.
2) Turn ignition switch to START.
3) Measure voltage between starter motor connector (B14) and chassis ground while depressing the clutch pedal.

Connector & terminal
(B14) No. 1 (+) — Chassis ground (−):



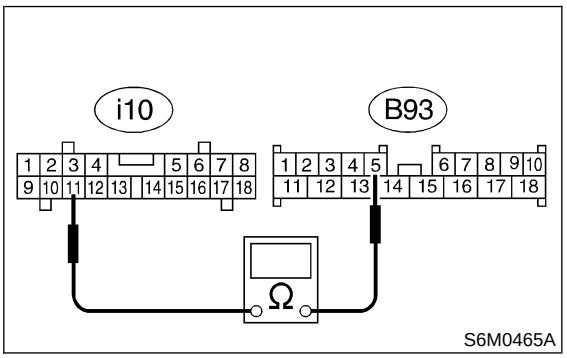
CHECK : ***Is the voltage more than 10 V?***
YES : Replace security control module. <Ref. to 6-2 [W14A1].>
NO : Repair wiring harness between interrupt relay and starter motor.

6. DIAGNOSTICS ITEM 5

5F61 : CHECK HARNESS CONNECTOR BETWEEN SECURITY CONTROL MODULE AND COMBINATION METER.

1) Disconnect connector from security control module and combination meter.
2) Measure resistance between security control module connector (B93) and combination meter connector (i10).

Connector & terminal
(B93) No. 5 — (i10) No. 11:

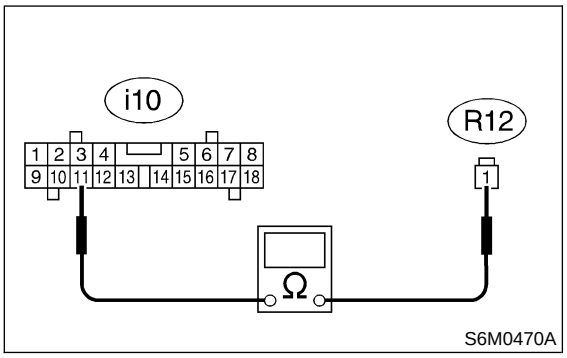


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F62**.
NO : Repair wiring harness between security control module and combination meter.

5F62 : CHECK HARNESS CONNECTOR BETWEEN FRONT DOOR SWITCH RH AND COMBINATION METER.

1) Disconnect connector from front door switch RH.
2) Measure resistance between front door switch RH connector (R12) and combination meter connector (i10).

Connector & terminal
(R12) No. 1 — (i10) No. 11:

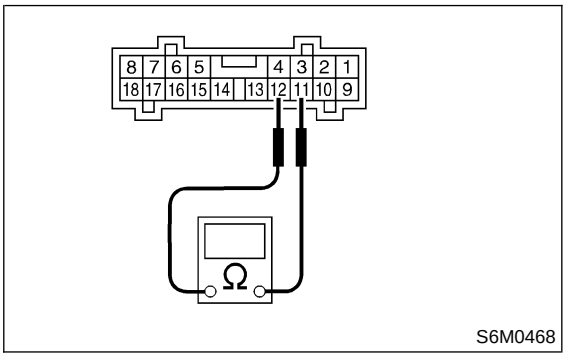


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F63**.
NO : Repair wiring harness between front door switch RH and combination meter.

5F63 : CHECK COMBINATION METER CIRCUIT.

1) Remove combination meter.
<Ref. to 6-2 [W8A0].>
2) Measure resistance between combination meter terminals.

Terminals
No. 11 — No. 12:



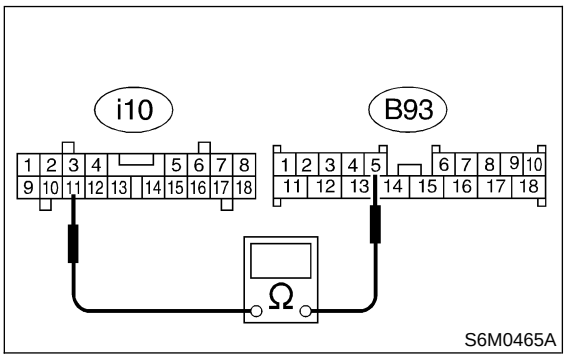
CHECK : ***Is the resistance less than 10 Ω?***
YES : Replace security control module. <Ref. to 6-2 [W14A1].>
NO : Repair or replace combination meter. <Ref. to 6-2 [W800].>

7. DIAGNOSTIC ITEM 6

5F71 : CHECK HARNESS CONNECTOR BETWEEN SECURITY CONTROL MODULE AND COMBINATION METER.

1) Disconnect connector from security control module and combination meter.
2) Measure resistance between security control module connector (B93) and combination meter connector (i10).

Connector & terminal
(B93) No. 5 — (i10) No. 11:

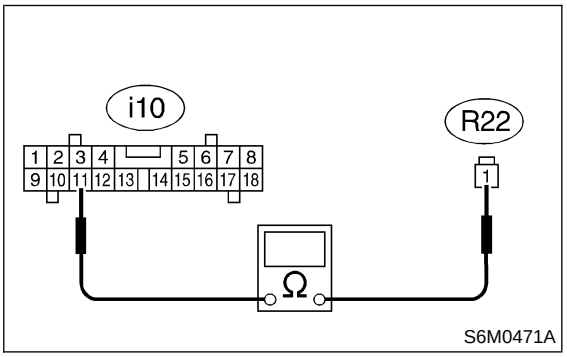


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F72**.
NO : Repair wiring harness between security control module and combination meter.

5F72 : CHECK HARNESS CONNECTOR BETWEEN REAR DOOR SWITCH LH AND COMBINATION METER.

1) Disconnect connector from rear door switch LH.
2) Measure resistance between rear door switch LH connector (R22) and combination meter connector (i10).

Connector & terminal
(R22) No. 1 — (i10) No. 11:

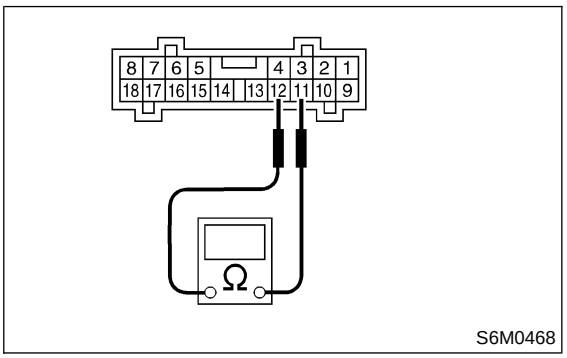


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F73**.
NO : Repair wiring harness between rear door switch LH and combination meter.

5F73 : CHECK COMBINATION METER CIRCUIT.

1) Remove combination meter. <Ref. to 6-2 [W8A0].>
2) Measure resistance between combination meter terminals.

Terminals
No. 11 — No. 12:



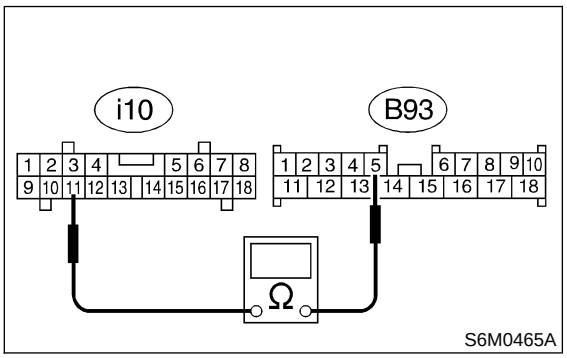
CHECK : ***Is the resistance less than 10 Ω?***
YES : Replace security control module. <Ref. to 6-2 [W14A1].>
NO : Repair or replace combination meter. <Ref. to 6-2 [W800].>

8. DIAGNOSTIC ITEM 7

5F81 : CHECK HARNESS CONNECTOR BETWEEN SECURITY CONTROL MODULE AND COMBINATION METER.

1) Disconnect connector from security control module and combination meter.
2) Measure resistance between security control module connector (B93) and combination meter connector (i10).

Connector & terminal
(B93) No. 5 — (i10) No. 11:

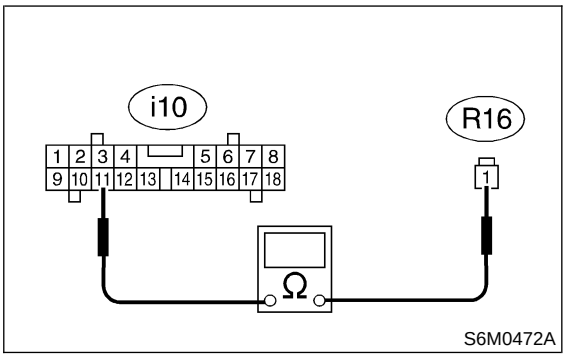


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F82**.
NO : Repair wiring harness between security control module and combination meter.

5F82 : CHECK HARNESS CONNECTOR BETWEEN REAR DOOR SWITCH RH AND COMBINATION METER.

1) Disconnect connector from rear door switch RH.
2) Measure resistance between rear door switch RH connector (R16) and combination meter connector (i10).

Connector & terminal
(R16) No. 1 — (i10) No. 11:

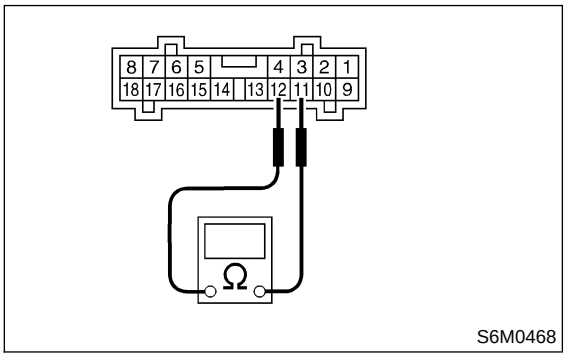


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F83**.
NO : Repair wiring harness between rear door switch RH and combination meter.

5F83 : CHECK COMBINATION METER CIRCUIT.

1) Remove combination meter. <Ref. to 6-2 [W8A0].>
2) Measure resistance between combination meter terminals.

Terminals
No. 11 — No. 12:



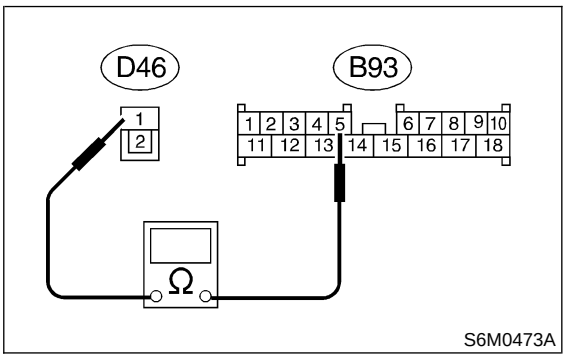
CHECK : ***Is the resistance less than 10 Ω?***
YES : Replace security control module. <Ref. to 6-2 [W14A1].>
NO : Repair or replace combination meter. <Ref. to 6-2 [W800].>

9. DIAGNOSTIC ITEM 8

5F91 : CHECK HARNESS CONNECTOR BETWEEN REAR GATE LATCH SWITCH AND SECURITY CONTROL MODULE.

1) Disconnect connector from rear gate latch switch and security control module.
2) Measure resistance between rear gate latch switch connector (D46) and security control module connector (B93).

Connector & terminal
(D46) No. 1 — (B93) No. 5:

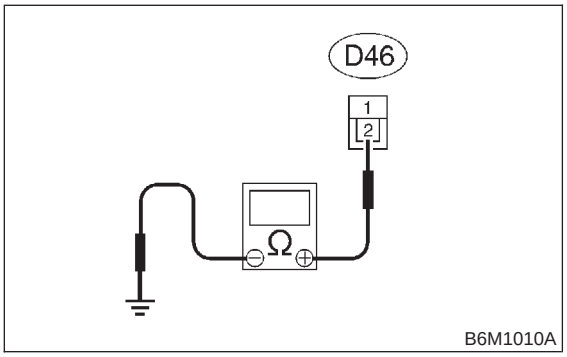


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F92**.
NO : Repair wiring harness between rear gate latch switch and security control module.

5F92 : CHECK HARNESS CONNECTOR BETWEEN REAR GATE LATCH SWITCH AND CHASSIS GROUND.

Measure resistance between rear gate latch switch connector (D46) and chassis ground.

Connector & terminal
(D46) No. 2 (+) — Chassis ground (−):

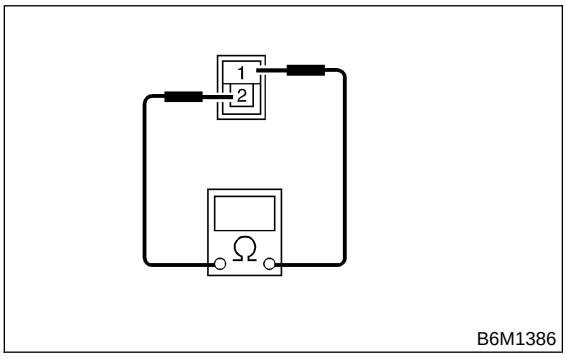


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F93**.
NO : Repair wiring harness between rear gate latch switch and chassis ground.

5F93 : CHECK REAR GATE LATCH SWITCH.

Measure resistance between rear gate latch switch terminals.

Terminals
No. 1 — No. 2:

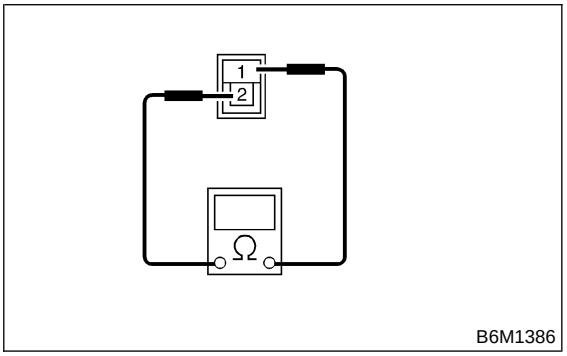


CHECK : ***Is the resistance less than 10 Ω?***
YES : Go to step **5F94**.
NO : Replace rear gate latch switch.

5F94 : CHECK REAR GATE LATCH SWITCH.

Measure resistance between rear gate latch switch terminals while pushing the switch.

Terminals
No. 1 — No. 2:



CHECK : ***Is the resistance less than 10 Ω?***
YES : Replace rear gate latch switch.
NO : Replace security control module. <Ref. to 6-2 [W14A1].>

10. DIAGNOSTIC ITEM 9

5F101 : CHECK SECURITY CONTROL MODULE.

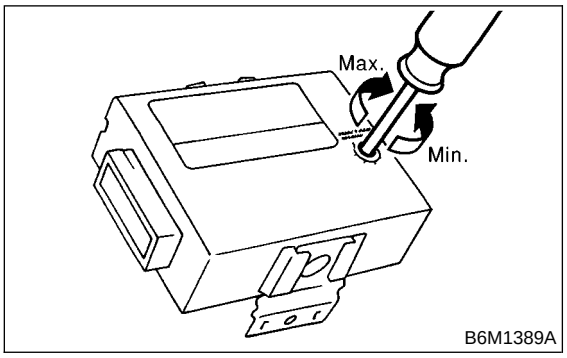
Check and ensure that security control module is installed on the bracket. <Ref. to 6-2 [W14A1].>

CHECK : ***Is the security control module securely installed?***
YES : Go to step **5F102**.
NO : Securely install security control module. <Ref. to 6-2 [W14A1].>

5F102 : ADJUST SENSITIVITY.

1) Remove security control module. <Ref. to 6-2 [W14A1].>
2) Adjust the sensitivity adjust screw in security control module.

NOTE:
After adjusting, be sure to plug the adjust screw hole.



3) Install security control module. <Ref. to 6-2 [W14A1].>
4) Perform impact sensitivity test.
<Ref. to 6-2 [T5F1].>

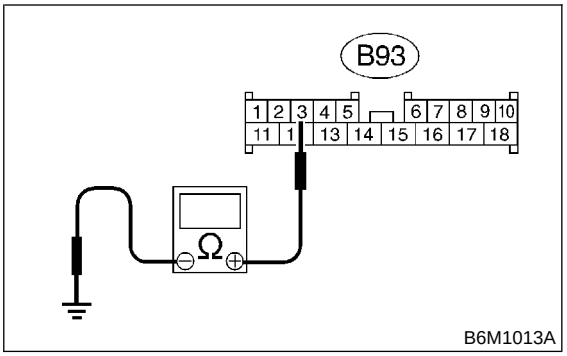
CHECK : ***Is sensitivity adjustment possible?***
YES : Impact sensitivity is normal.
NO : Replace security control module. <Ref. to 6-2 [W14A1].>

11. DIAGNOSTIC ITEM 10

5F111 : CHECK PASSIVE ARM CIRCUIT.

1) Connect connector (B183) and (B184) at driver side front lower pillar.
2) Disconnect connector from security control module.
3) Measure resistance between security control module (B93) and chassis ground.

Connector & terminal
(B93) No. 3 (+) — Chassis ground (−):



CHECK : ***Is the resistance less than 10 Ω?***
YES : Replace security control module. <Ref. to 6-2 [W14A1].>
NO : Repair wiring harness between security control module and chassis ground.