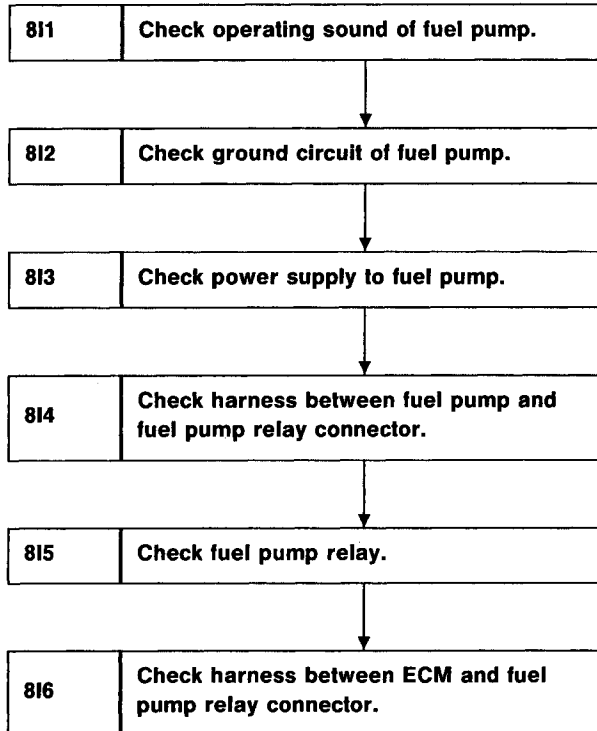


## 8. Diagnostics for Engine Starting Failure

I: FUEL PUMP CIRCUIT (2200 cc AWD EXCEPT TAIWAN MODEL)

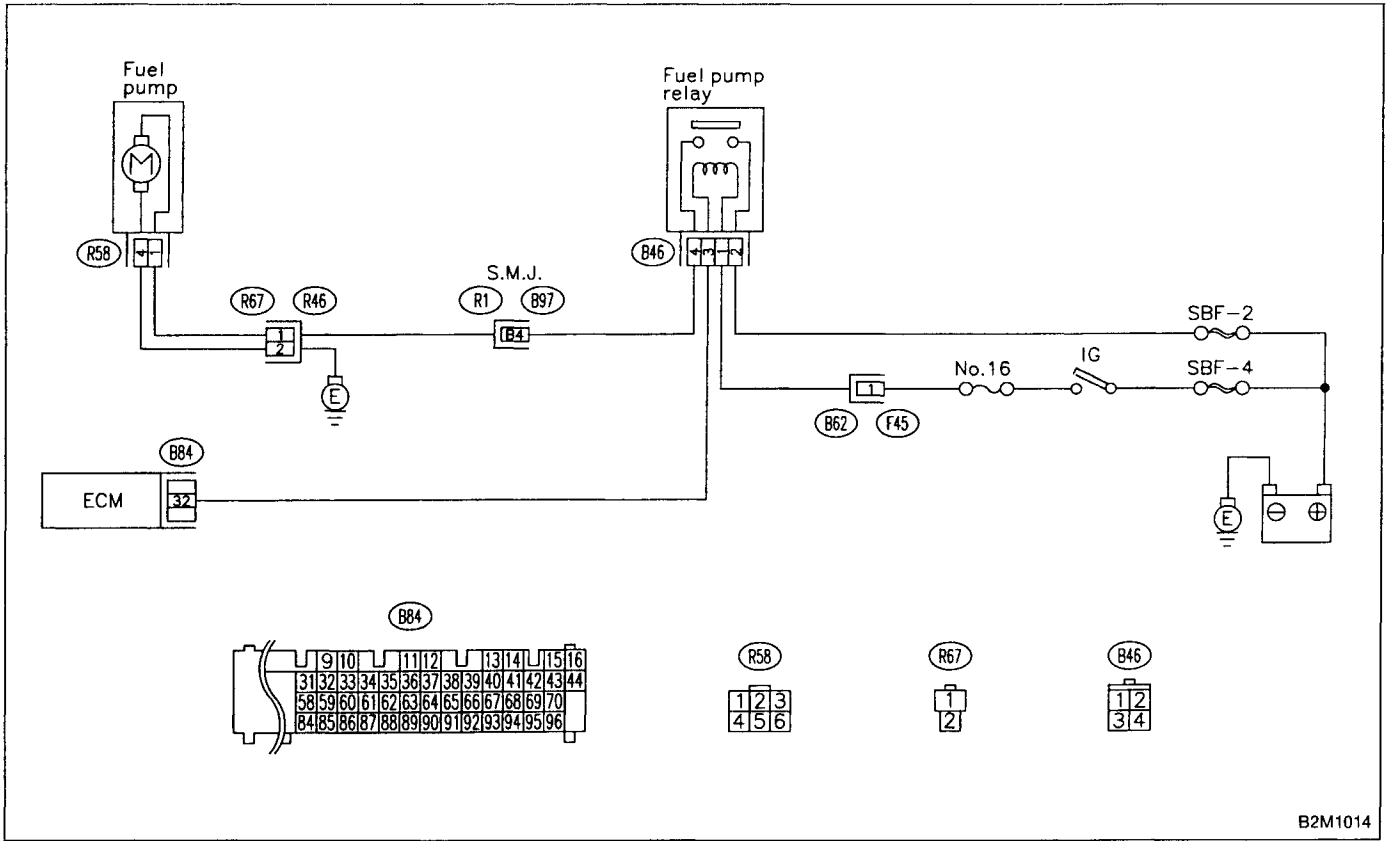


**CAUTION:**

After repair or replacement of faulty parts, conduct CLEAR MEMORY and INSPECTION MODES.

< Ref. to 2-7 [T3D0] and [T3E0].☆2 and ☆4 >

WIRING DIAGRAM:



B2M1014

811

**CHECK OPERATING SOUND OF FUEL PUMP.**

Make sure that fuel pump is in operation for two seconds when turning ignition switch to ON.

**CHECK** : Does fuel pump produce operating sound?

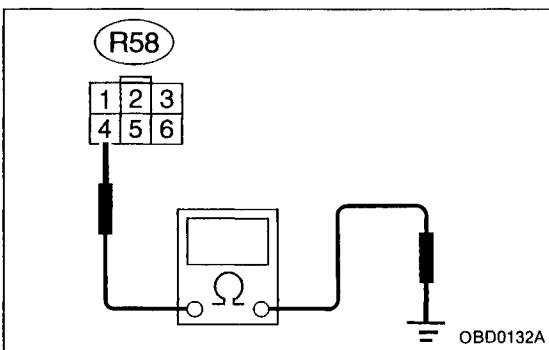
NOTE:

Fuel pump operation check can also be executed using Subaru Select Monitor (Function mode: FD01).

For the procedure, refer to "COMPULSORY VALVE OPERATION CHECK MODE" 2-7 [T3F0]☆4.

**YES** : Check fuel injector circuit. <Ref. to 2-7 [T10Q0].☆2 >

**NO** : Go to step 812.



OBD0132A

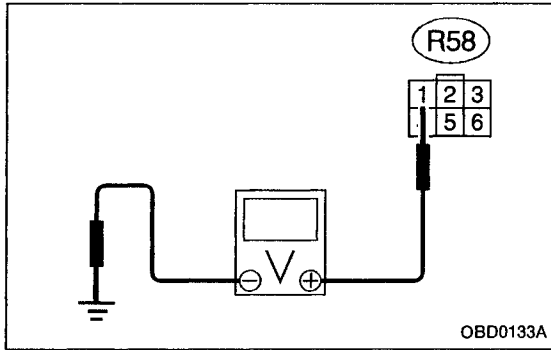
812

**CHECK GROUND CIRCUIT OF FUEL PUMP.**

- 1) Turn ignition switch to OFF.
- 2) Disconnect connector from fuel pump.
- 3) Measure resistance of harness connector between fuel pump and chassis ground.

**CHECK** : Connector & terminal (R58) No. 4 — Chassis ground: Is the resistance less than 5 Ω?

- YES** : Go to step **813**.
- NO** : Repair open circuit in fuel pump ground circuit.

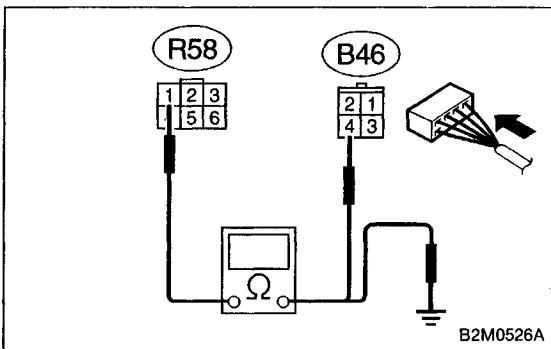


**813 CHECK POWER SUPPLY TO FUEL PUMP.**

- 1) Turn ignition switch to ON.
- 2) Measure voltage of power supply circuit between fuel pump connector and chassis ground.

**CHECK** : **Connector & terminal (R58) No. 1 (+) — Chassis ground (-): Is the voltage more than 10 V?**

- YES** : Replace fuel pump.
- NO** : Go to step **814**.



**814 CHECK HARNESS BETWEEN FUEL PUMP AND FUEL PUMP RELAY CONNECTOR.**

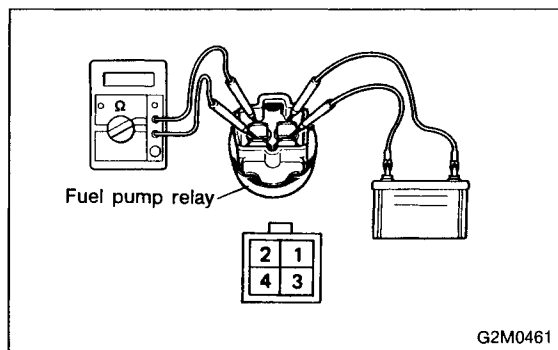
- 1) Turn ignition switch to OFF.
- 2) Measure resistance of harness connector between fuel pump and fuel pump relay.

**CHECK** : **Connector & terminal (R58) No. 1 — (B46) No. 4: Is the resistance less than 1 Ω?**

- YES** : Go to next **CHECK** .
- NO** : Repair open circuit in harness between fuel pump and fuel pump relay connector.

**CHECK** : **Connector & terminal (R58) No. 1 — Chassis ground: Is the resistance more than 1 MΩ?**

- YES** : Go to step **815**.
- NO** : Repair short circuit in harness between fuel pump and fuel pump relay connector.

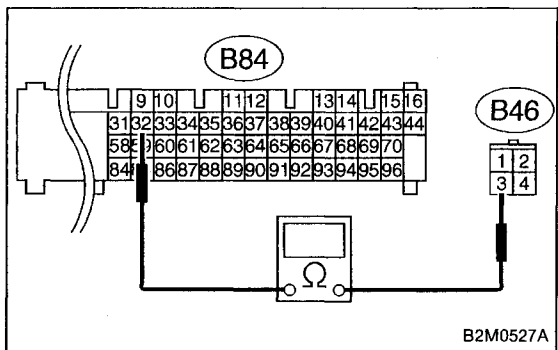


**815 CHECK FUEL PUMP RELAY.**

- 1) Disconnect connectors from fuel pump relay and main relay.
- 2) Remove fuel pump relay and main relay with bracket.
- 3) Connect battery to fuel pump relay connector terminals No. 1 and No. 3.
- 4) Measure resistance between connector terminals of fuel pump relay.

**CHECK** : **Terminals No. 2 — No. 4:**  
**Is the resistance less than 10 Ω?**

- YES** : Go to step 816.
- NO** : Replace fuel pump relay.



**816 CHECK HARNESS BETWEEN ECM AND FUEL PUMP RELAY CONNECTOR.**

- 1) Disconnect connectors from ECM.
- 2) Measure resistance of harness between ECM and fuel pump relay connector.

**CHECK** : **Connector & terminal (B84) No. 32 — (B46) No. 3:**  
**Is the resistance less than 1 Ω?**

- YES** : Go to next **CHECK** .
- NO** : Repair harness between ECM and fuel pump relay connector.

**CHECK** : **Is there poor contact in ECM connector?**

- YES** : Repair poor contact in ECM connector.
- NO** : Check fuel injector circuit. <Ref. to 2-7 [T8F0].☆2>