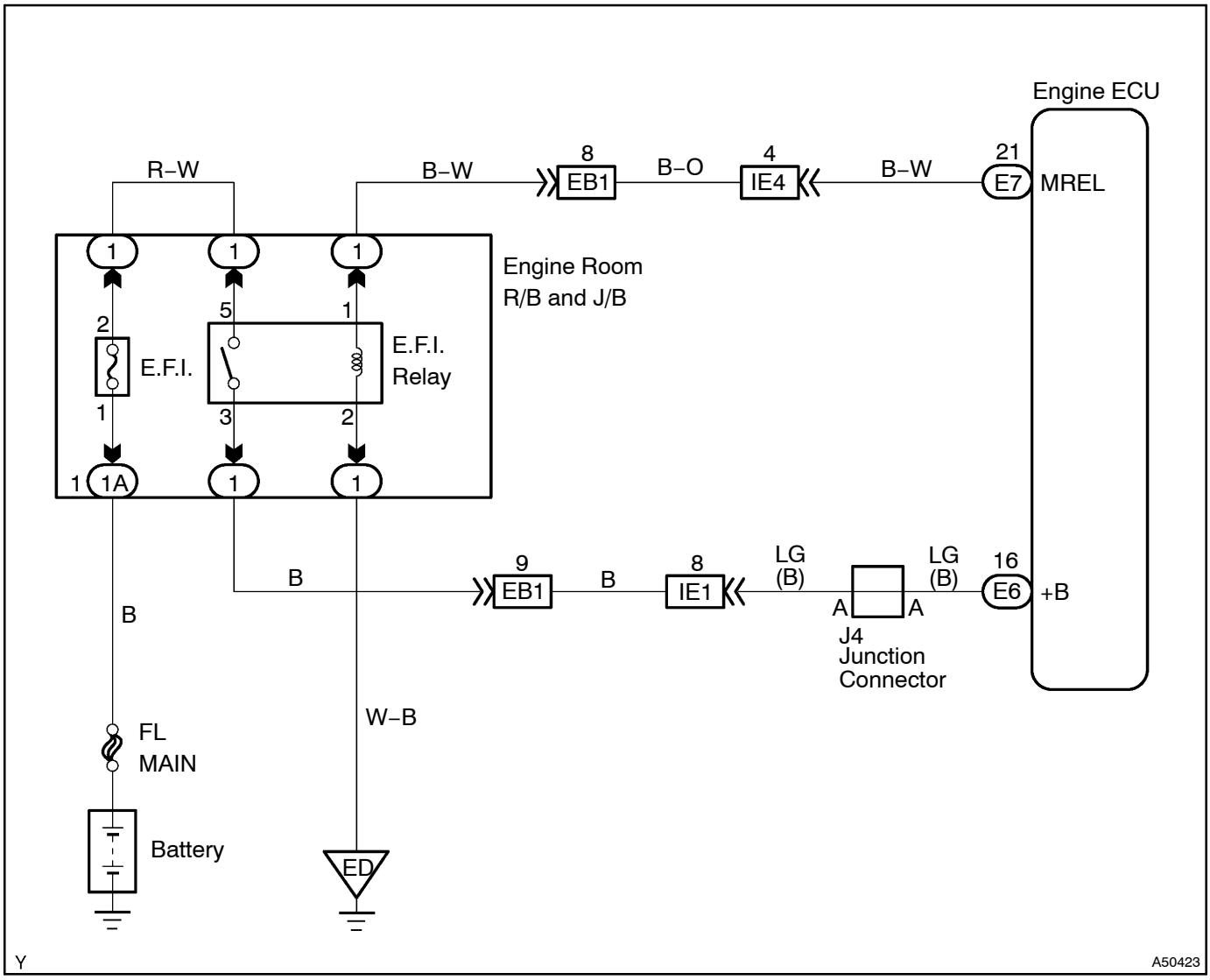
ECU POWER SOURCE CIRCUIT

CIRCUIT DESCRIPTION

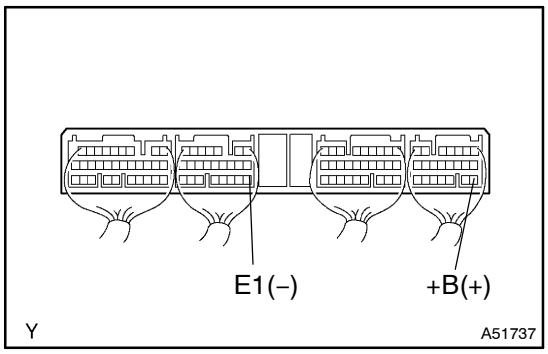
When the ignition switch is turned ON, battery positive voltage is applied to the coil which closes the contacts of the EFI main relay (Marking: EFI) and supplies power to the terminal +B of the engine ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK ECU

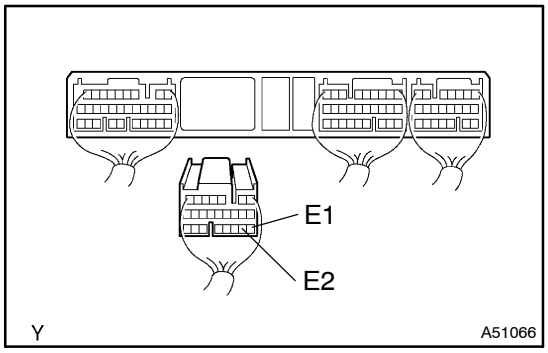


(a) Turn the ignition switch ON.
(b) Measure voltage between the terminals +B of the engine ECU E6 connector and E1 of the engine ECU E8 connector.
VOLTAGE: 9–14 V

OK → **CHECK AND REPLACE ECU**

NG

2 CHECK HARNESS AND CONNECTOR (ECU GROUND)

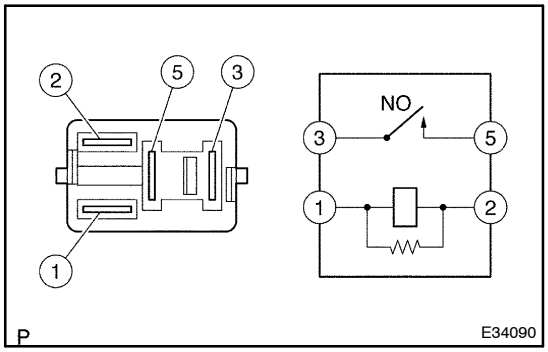


(a) Disconnect the battery negative terminal.
(b) Disconnect the engine ECU E8 connector.
(c) Check continuity between the terminal E1 of engine ECU E8 connector and body ground. (Terminals arrangement on 05–241)
RESISTANCE: 1Ω or less
(d) Check continuity between the terminal E1 of the engine ECU E8 connector and body ground. (Terminal arrangement on 05–241)
RESISTANCE: 1Ω or less

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

3 CHECK E.F.I ECU RELAY



(a) Check continuity between the terminals shown below.
RESISTANCE:

TERMINAL NO.	RESISTANCE
1 – 2	1 Ω or less
3 – 5	1 MΩ or more

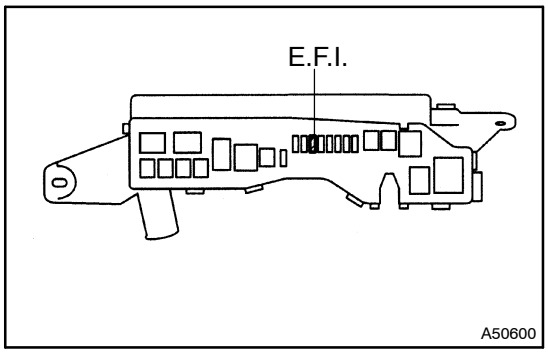
(b) Check continuity between the terminals 3 and 5 of the connector when the battery voltage is applied to the terminals between 1 and 2.
RESISTANCE:

TERMINAL NO.	RESISTANCE
3 – 5	1 Ω or less

NG → **REPLACE E.F.I ECU RELAY**

OK

4 CHECK FUSE(E.F.I.FUSE)

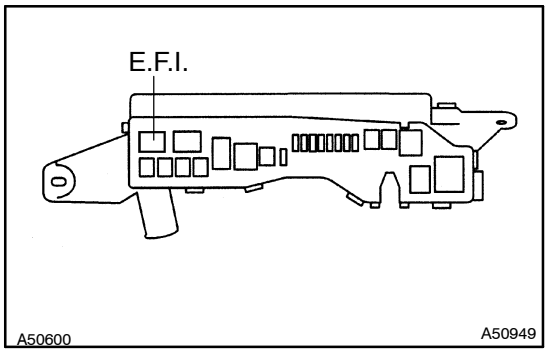


(1) Check continuity of E.F.I. fuse
RESISTANCE: 1Ω or less

NG → **REPLACE FUSE**

OK

5 CHECK RELAY OPERATION(E.F.I. COMPUTER RELAY)

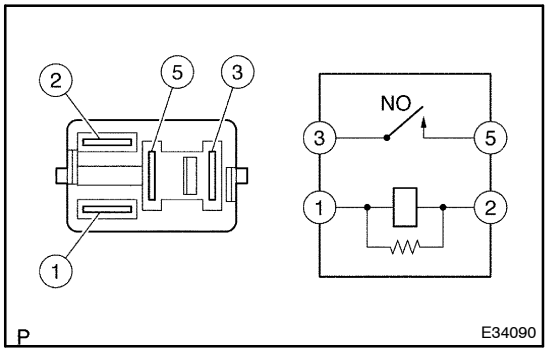


(a) Confirm that the E.F.I relay operates normally when turning the ignition switch ON.
RESULT:
E.F.I. relay operation sound is heard successively when turning the ignition switch ON.

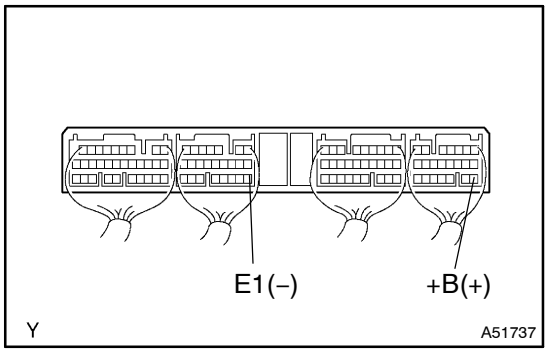
NG → **Go to step 9**

OK

6 CHECK HARNESS AND CONNECTOR(ENGINE ECU–E.F.I. COMPUTER RELAY)



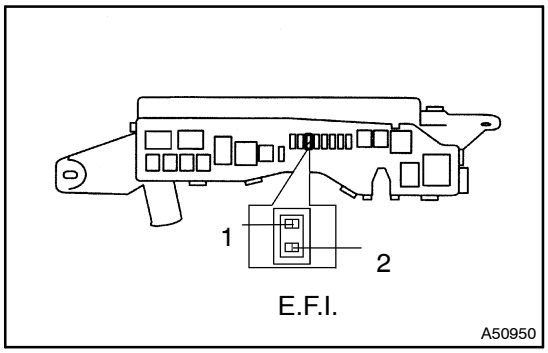
(a) Disconnect the battery negative (–) terminal.
(b) Remove the E.F.I. computer relay.
(c) Check continuity between the terminals 1 of the E.F.I. computer relay in the engine room R/B and +B of the engine ECU E6 connector.
RESISTANCE: 1Ω or less
(d) Check continuity between the terminals 1 of the EFI computer relay in the engine room R/B and E1 of the engine ECU E8 connector.
RESISTANCE: 1MΩ or more



NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

7 CHECK HARNESS AND CONNECTOR(E.F.I.FUSE–BATTERY)



(a) Disconnect the battery negative (–) connector.
(b) Remove the E.F.I. fuse.
(c) Check continuity between the terminals 1 of the EFI fuse holder in the engine room R/B and negative (–) of the battery.

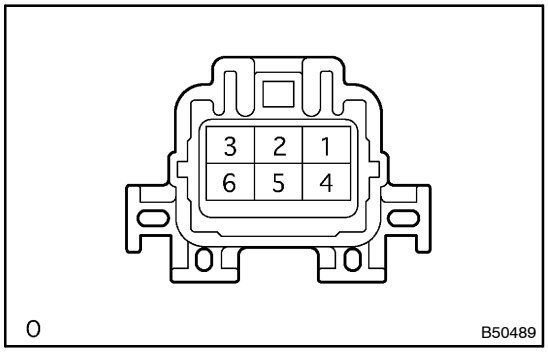
NOTICE:
Do not insert the tester leads hard in the procedure (c), or the holder may be damaged.

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

REPLACE ENGINE ROOM RELAY BLOCK

8 INSPECT IGNITION OR STARTER SWITCH ASSY



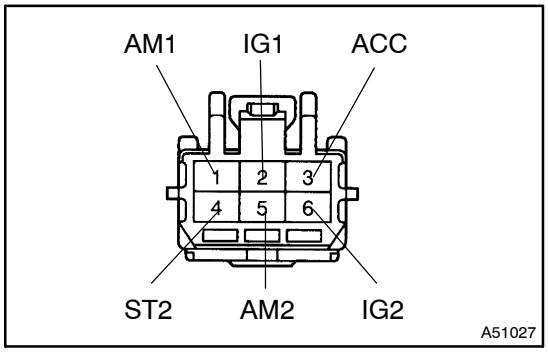
(a) Check continuity between the connector terminals shown in the chart below.

Switch	Terminal No.	Resisitance
LOCK	All Terminals	1MΩ or more
ACC	1⇔3	1Ω or less
ON	1⇔2⇔3 5⇔6	1Ω or less
START	4⇔5⇔6 1⇔2	1Ω or less

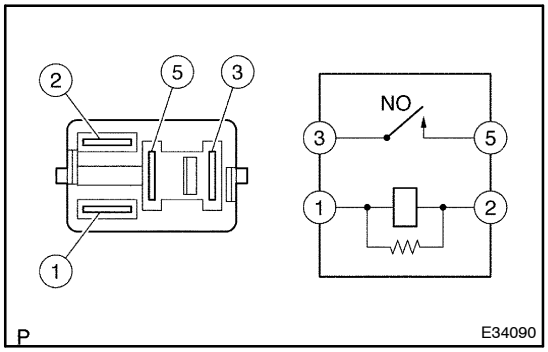
NG → **REPLACE IGNITION OR STARTER SWITCH ASSY**

OK

9 CHECK HARNESS AND CONNECTOR(IGNITION SWITCH–E.F.I. COMPUTER RELAY)



(a) Disconnect the battery negative (–) terminal.
(b) Remove the E.F.I. circuit opening relay.
(c) Disconnect the ignition switch connector.
(d) Check continuity between the terminals IG2 of the ignition switch connector and 5 of the E.F.I. circuit opening relay in the R/B.
RESISTANCE: 1Ω or less
(e) Check for short between the terminal IG2 of the ignition switch and body ground.
RESISTANCE: 1MΩ or more



NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

REPLACE ENGINE ROOM RELAY BLOCK