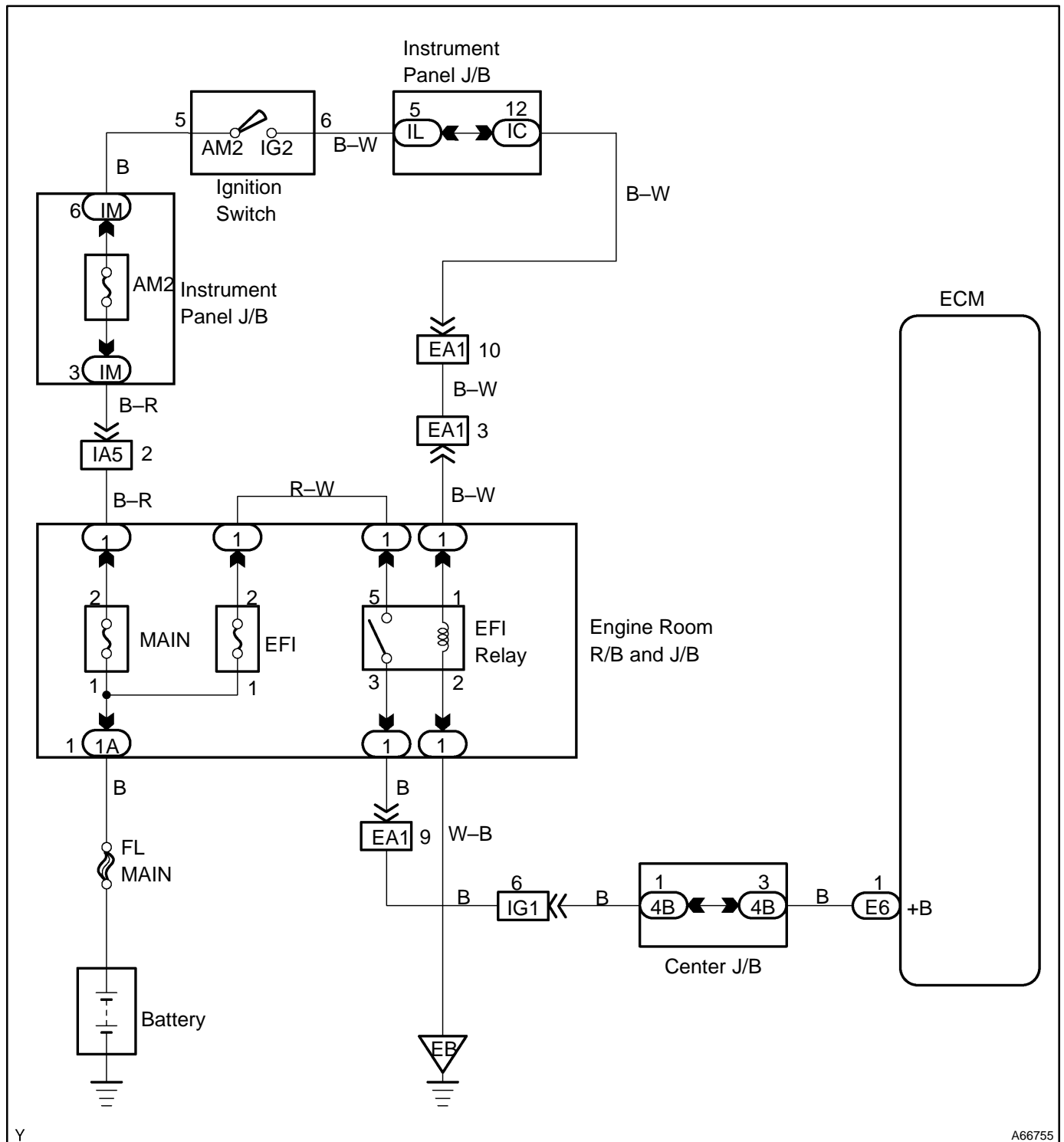


ECM POWER SOURCE CIRCUIT

CIRCUIT DESCRIPTION

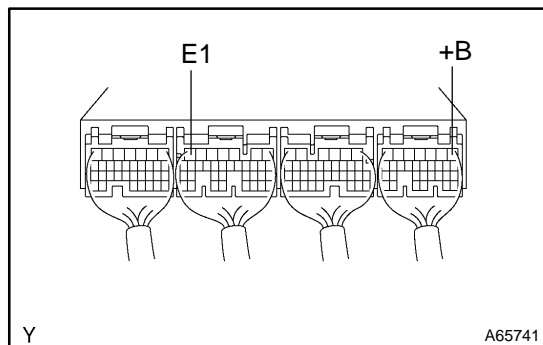
When the ignition switch is turned ON, battery positive voltage is applied to the coil which closes the contacts of the E.F.I. relay (Marking: E.F.I.) and supplies power to the terminal +B of the ECM.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT ECM



- Turn the ignition switch ON.
- Measure voltage between the terminals +B of the ECM connector and E1 of the ECM connector.

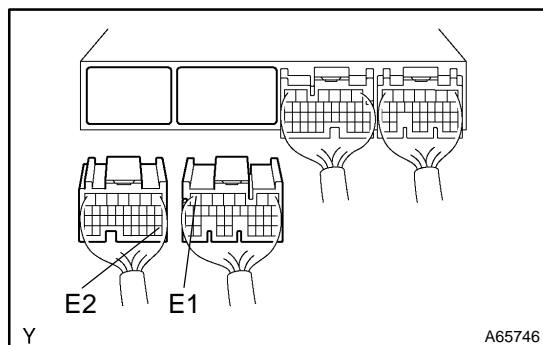
Voltage: 9 – 14 V

OK

CHECK AND REPLACE ECM

NG

2 CHECK HARNESS AND CONNECTOR(ECM GROUND)



- Disconnect the battery negative (–) terminal.
- Disconnect the ECM E3 and E4 connector.
- Check continuity between the terminal E1 of the ECM connector and body ground.

Resistance: 1 Ω or less

- Check continuity between the terminal E2 of the ECM connector and body ground.

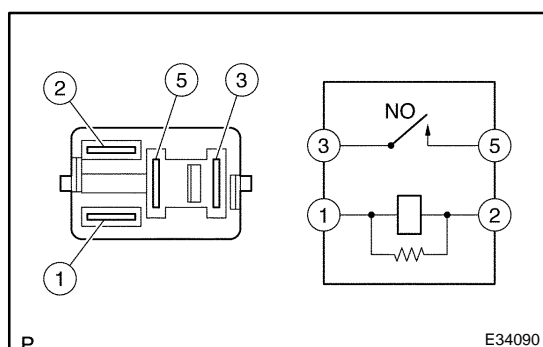
Resistance: 1 Ω or less

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

3 CHECK RELAY(E.F.I. RELAY)



- Remove the E.F.I. relay.
- Check continuity between the terminals shown below.

Resistance:

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

- Check continuity between the terminals 3 and 5 of the connector when the battery voltage is applied to the terminals between 1 and 2.

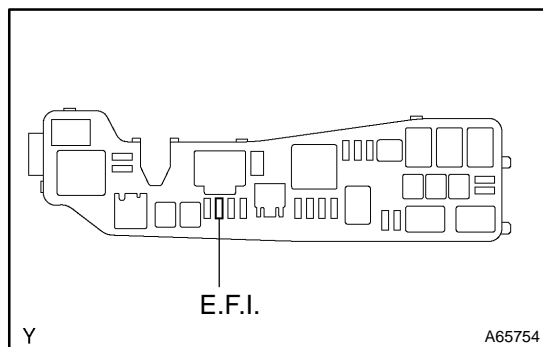
Resistance:

TERMINAL NO.	RESISTANCE
3 – 5	1 Ω or less

NG

REPLACE RELAY

OK

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

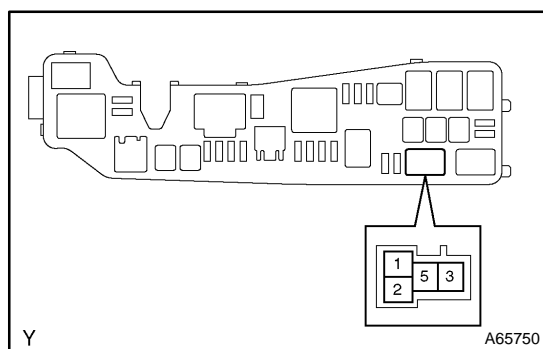
- (a) Remove the E.F.I. fuse.
- (b) Check continuity of E.F.I. fuse.

Resistance: 1 Ω or less

NG

REPLACE FUSE

OK

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

- (a) Remove the E.F.I. relay.
- (b) Confirm that the E.F.I. relay operates normally when turning the ignition switch ON.

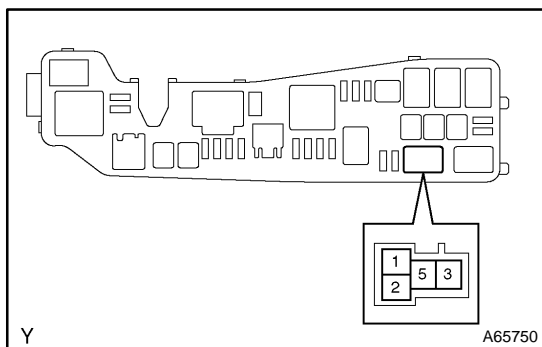
Result:

E.F.I. relay operation sound is heard successively when turning the ignition switch ON.

NG

Go to step 9

OK

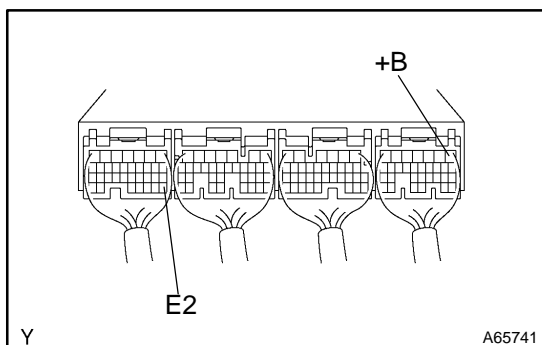
6 CHECK HARNESS AND CONNECTOR(ECM-E.F.I.RELAY)

- (a) Disconnect the battery negative (–) terminal.
- (b) Remove the E.F.I. relay.
- (c) Check continuity between the terminals 1 of the E.F.I. relay in the engine room R/B and +B of the ECM connector.

Resistance: 1 Ω or less

- (d) Check short between the terminals 1 of the E.F.I. relay in the engine room R/B and E2 of the ECM.

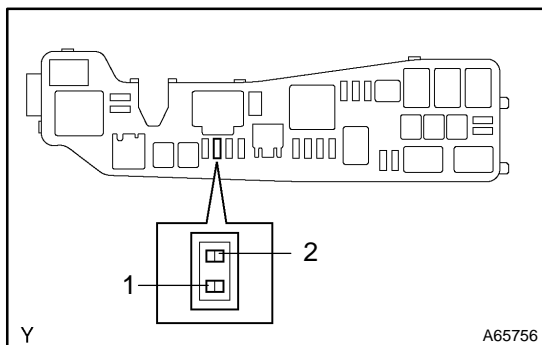
Resistance: 1 M Ω or more



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 E.F.I. fuse holder in the engine room R/B and negative (–) of the battery.

NOTICE:

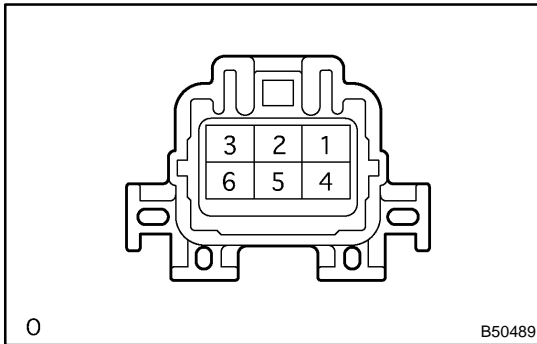
Do not insert the tester leads hard in the procedure (c), or the holder may be damaged.

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

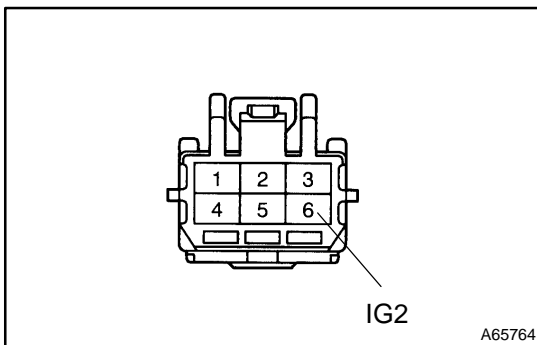
OK

REPLACE ECM

8 INSPECT IGNITION OR STARTER SWITCH ASSY

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

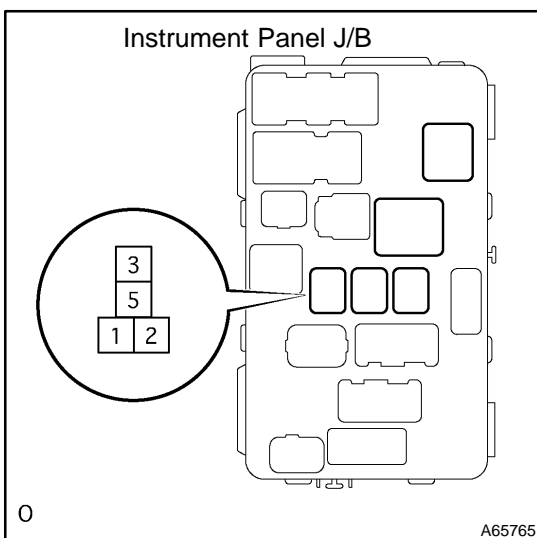
Switch	Terminal No.	Resistance
LOCK	All Terminals	1MΩ or more
ACC	1-3	1Ω or less
ON	1-2-3 5-6	1Ω or less
START	4-5-6 1-2	1Ω or less

NG**REPLACE IGNITION OR STARTER SWITCH ASSY****OK****9 CHECK HARNESS AND CONNECTOR(IGNITION SWITCH-E.F.I. CIRCUIT OPENING 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: 1 Ω or less

- (e) Check for short between the terminal IG2 of the ignition switch and body ground.

Resistance: 1 MΩ or more**NG****REPAIR OR REPLACE HARNESS AND CONNECTOR****OK****REPLACE ECM**