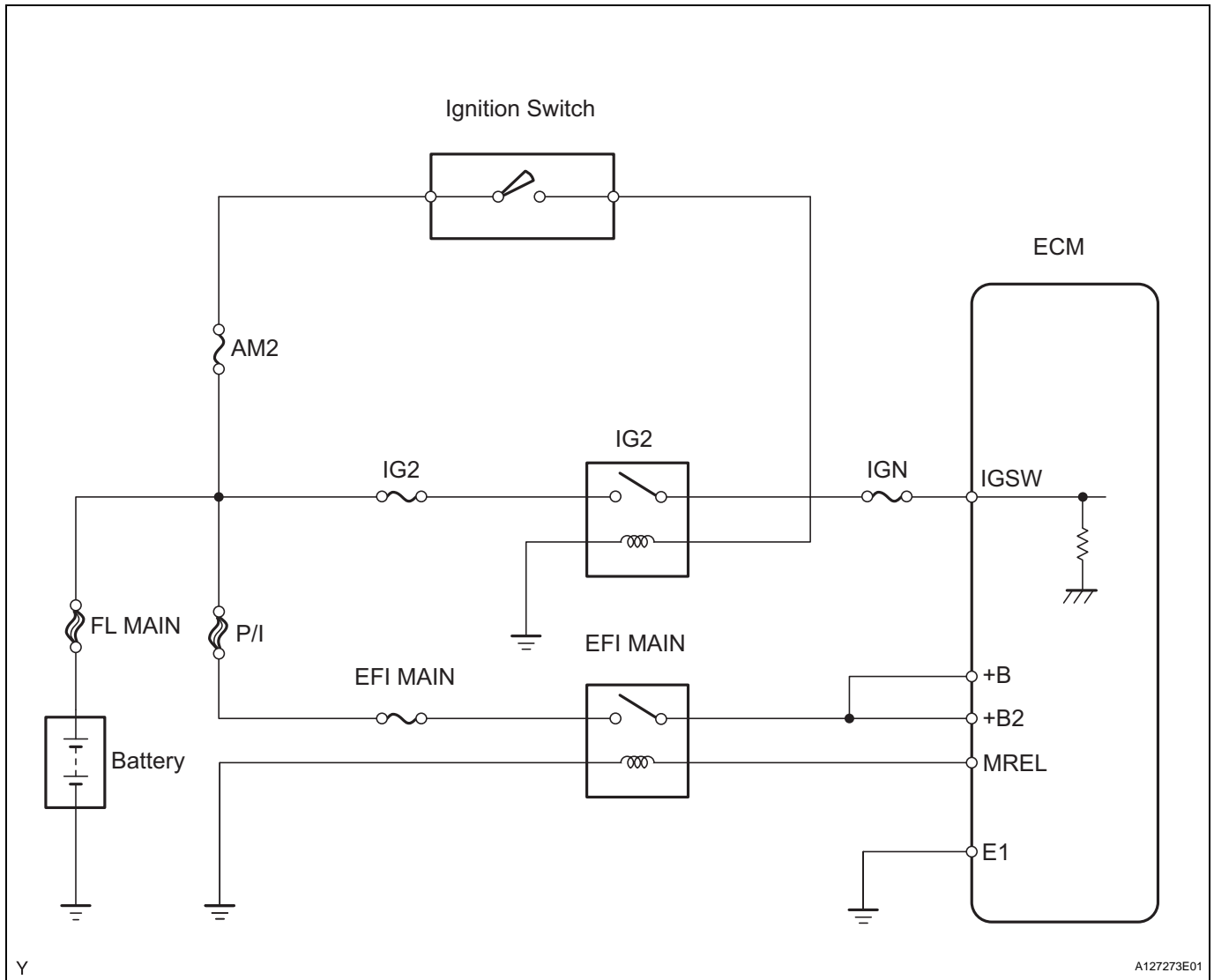


## ECM Power Source Circuit

### DESCRIPTION

When the ignition switch is turned ON, the battery voltage is applied to the IGSW of the ECM. The output signal from the MREL terminal of the ECM causes a current to flow to the coil, closing the contacts of the integration relay (EFI MAIN relay) and supplying power to either terminal +B or +B2 of the ECM.

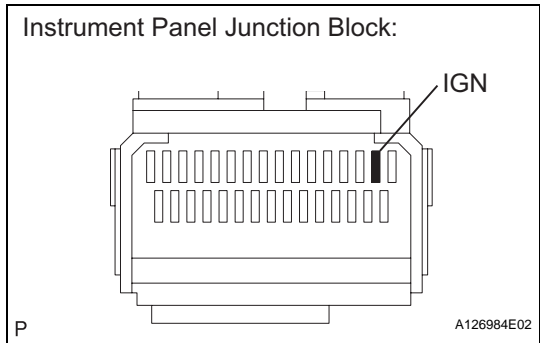
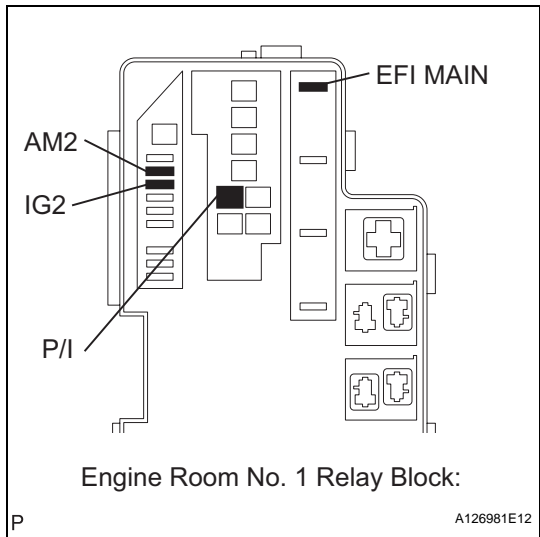
### WIRING DIAGRAM



INSPECTION PROCEDURE

1

INSPECT FUSES (P/I, AM2, IG2, EFI MAIN, IGN)



- (a) Remove the P/I fuse, AM2 fuse, IG2 fuse and EFI MAIN fuse from the engine room No. 1 relay block.
- (b) Remove the IGN fuse from the instrument panel junction block.
- (c) Measure the resistance of the fuses.  
**Standard resistance:**  
**Below 1Ω**
- (d) Reinstall the fuses.

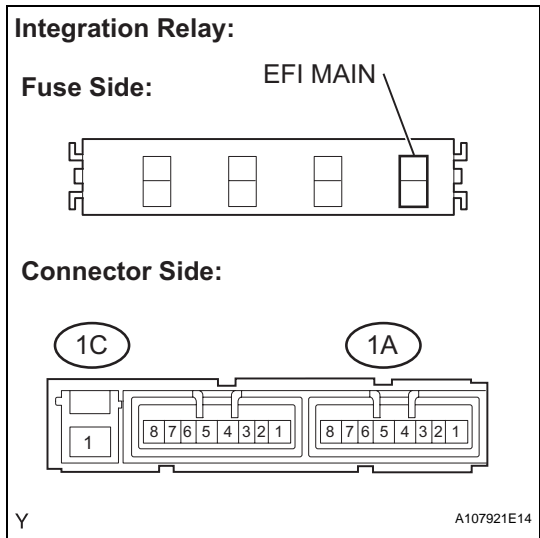
NG

CHECK FOR SHORT IN ALL HARNESSES AND CONNECTORS CONNECTED TO FUSE AND REPLACE FUSE

OK

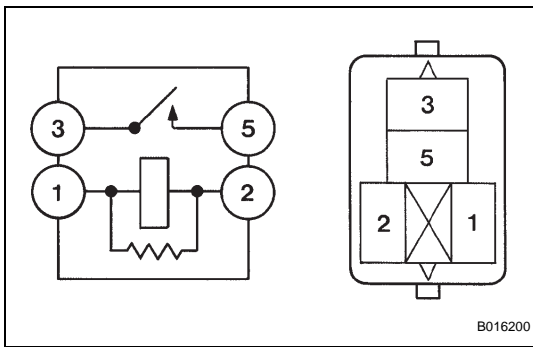
2

INSPECT RELAY (IG2, EFI MAIN)



- (a) Remove the integration relay and IG2 relay from the engine room No. 1 relay block.
- (b) Measure the resistance between the terminal of the integration relay.  
**Standard resistance**

Tester Connections	Specified Conditions
1C-1 - 1A-4	10 kΩ or higher
	Below 1 Ω (When battery voltage is applied to terminals 1A-2 and 1A-3)



- (c) Measure the resistance between the terminal of the IG2 relay.

**Standard resistance**

Tester Connections	Specified Conditions
3 - 5	10 k $\Omega$ or higher
	Below 1 $\Omega$ (When battery voltage is applied to terminals 1 and 2)

- (d) Reinstall the relay.

NG

REPLACE RELAY

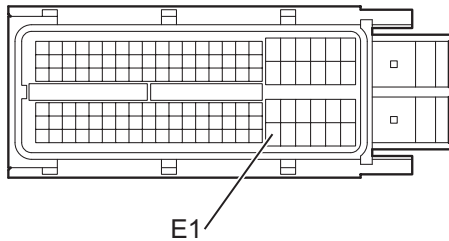
OK

ES

### 3 CHECK HARNESS AND CONNECTOR (ECM - BODY GROUND)

**Wire Harness Side:**

(B30) ECM Connector



A107892E36

- (a) Disconnect the B30 ECM connector.  
(b) Measure the resistance.

**Standard resistance**

Tester Connection	Specified Condition
B30-104 (E1) - Body ground	Below 1 $\Omega$

- (c) Reconnect the ECM connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

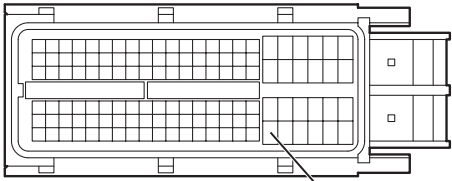
4

INSPECT ECM (IGSW VOLTAGE)

Wire Harness Side:

B30

ECM Connector

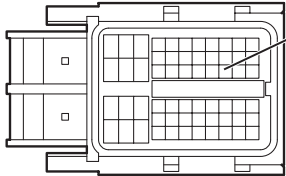


Front View

E1

A9

ECM Connector



Front View

IGSW

A107934E12

- (a) Disconnect the B30 and A9 ECM connectors.
- (b) Turn the ignition switch ON.
- (c) Measure the voltage between the terminals of the B30 and A9 ECM connectors.

Standard voltage

Tester Connections	Specified Conditions
A9-28 (IGSW) - B30-104 (E1)	9 to 14 V

- (d) Reconnect the ECM connector.

OK

REPLACE ECM

NG

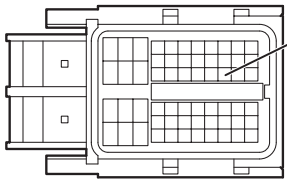
5

CHECK HARNESS AND CONNECTOR (RELAY BLOCK - ECM, IGNITION SWITCH, BATTERY)

Wire Harness Side:

A9

ECM Connector



Front View

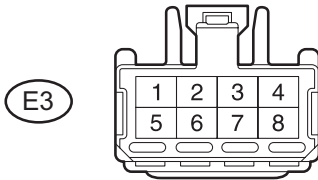
IGSW

A115671E08

- (a) Disconnect the A9 ECM connector.

**Wire Harness Side:**

Ignition Switch Connector

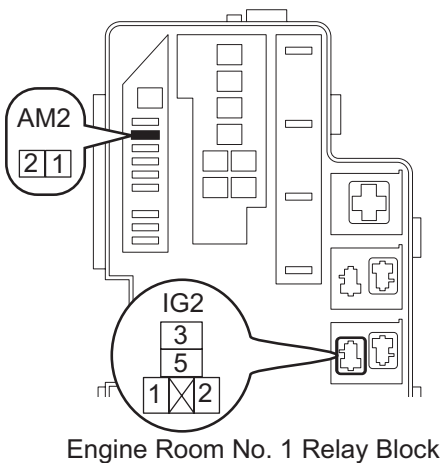


T

E118422E04

- (b) Disconnect the E3 ignition switch connector.
- (c) Disconnect the battery positive terminal.

ES



Engine Room No. 1 Relay Block

P

A126981E13

- (d) Remove the AM2 fuse and IG2 relay.
- (e) Measure the resistance between the terminals.

**Standard resistance (Check for open)**

Tester Connections	Specified Conditions
A9-28 (IGSW) - Engine room No. 1 relay block IG2 relay terminal 5	Below 1 $\Omega$
Engine room No. 1 relay block IG2 relay terminal 2 - Body ground	Below 1 $\Omega$
Positive (+) battery cable - Engine room relay block No. 1 AM2 fuse terminal 1	Below 1 $\Omega$
Positive (+) battery cable - Engine room relay block No. 1 IG2 relay terminal 3	Below 1 $\Omega$
E3-7 (AM2) - Engine room No. 1 relay block AM2 fuse terminal 2	Below 1 $\Omega$
E3-6 (IG2) - Engine room No. 1 relay block IG2 relay terminal 1	Below 1 $\Omega$

**Standard resistance (Check for short)**

Tester Connections	Specified Conditions
A9-28 (IGSW) or Engine room No. 1 relay block IG2 relay terminal 5 - Body ground	10 k $\Omega$ or higher
Positive (+) battery cable or Engine room No. 1 relay block AM2 fuse terminal 1 - Body ground	10 k $\Omega$ or higher
Positive (+) battery cable or Engine room No. 1 relay block IG2 relay terminal 3 - Body ground	10 k $\Omega$ or higher
E3-7 (AM2) or Engine room No. 1 relay block AM2 fuse terminal 2 - Body ground	10 k $\Omega$ or higher
E3-6 (IG2) or Engine room No. 1 relay block IG2 relay terminal 1 - Body ground	10 k $\Omega$ or higher

- (f) Reinstall the relay and fuse.
- (g) Reconnect the connectors.

NG

**REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

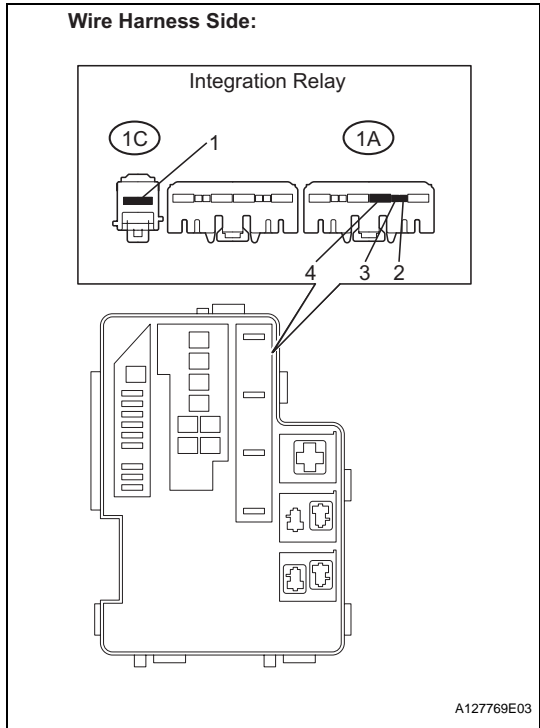
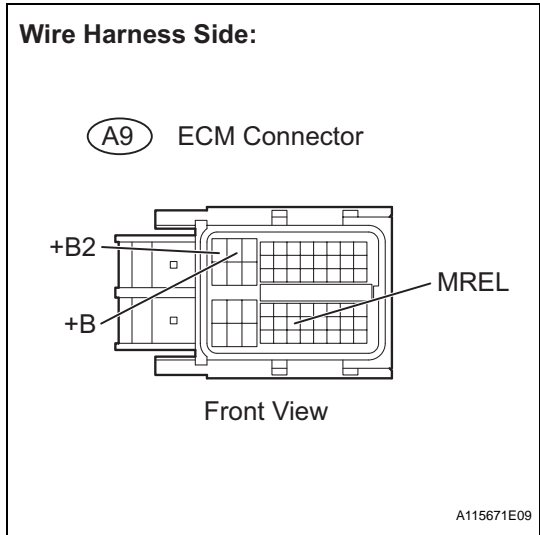
6 INSPECT IGNITION SWITCH (See page ES-261)

NG REPLACE IGNITION SWITCH

OK

7 CHECK HARNESS AND CONNECTOR (INTEGRATION RELAY - ECM, BATTERY, BODY GROUND)

ES



(a) Disconnect the A9 ECM connector.

- (b) Remove the integration relay from the engine room No. 1 relay block.
- (c) Disconnect the integration relay connector.
- (d) Remove the P/I fuse from the engine room No. 1 relay block.
- (e) Check the resistance between the terminals.
- Standard resistance (Check for open)**

Tester Connections	Specified Conditions
A9-2 (+B) - 1A-4	Below 1 Ω
A9-1 (+B2) - 1A-4	Below 1 Ω
A9-44 (MREL) - 1A-2	Below 1 Ω
Engine room relay block No. 1 P/I fuse terminal 2 - 1C-1	Below 1 Ω
1A-3 - Body ground	Below 1 Ω

**Standard resistance (Check for short)**

Tester Connections	Specified Conditions
A9-2 (+B) or 1A-4 - Body ground	10 kΩ or higher
A9-1 (+B2) or 1A-4 - Body ground	10 kΩ or higher
A9-44 (MREL) or 1A-2 - Body ground	10 kΩ or higher
Engine room No. 1 relay block P/I fuse terminal 2 or 1C-1 - Body ground	10 kΩ or higher

(f) Reconnect the connectors.

(g) Reinstall the integration relay and P/I fuse.

NG

REPAIR OR REPLACE HARNESS OR  
CONNECTOR

OK

REPAIR OR REPLACE ENGINE ROOM NO. 1 RELAY BLOCK

ES