

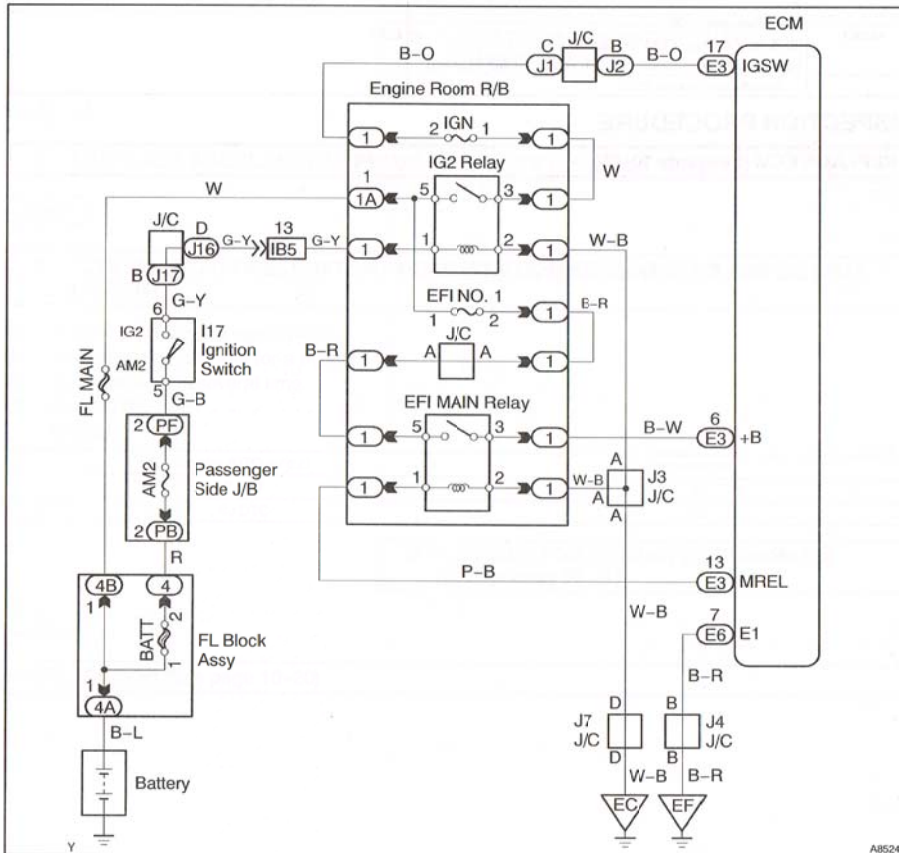
ECM POWER SOURCE CIRCUIT

CIRCUIT DESCRIPTION

When the ignition switch is turned ON, battery voltage is applied to terminal IGSW of the ECM. The ECM "MREL" output signal causes current to flow to the coil, closing the contacts of the EFI MAIN relay and supplying power to terminal +B of the ECM.

If the ignition switch is turned OFF, the ECM holds the EFI MAIN relay ON for a maximum of 2 seconds to allow for the initial setting of the throttle valve.

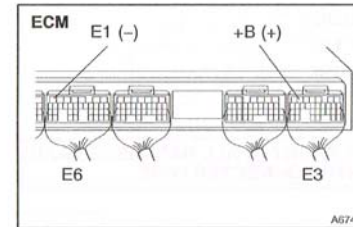
WIRING DIAGRAM



A85246

INSPECTION PROCEDURE

1 INSPECT ECM (+B VOLTAGE)



- Turn the ignition switch ON.
- Measure the voltage of the ECM.

Standard:

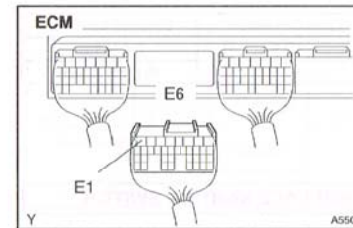
Tester Connection	Specified Condition
E3-6 (+B) - E6-7 (E1)	9 to 14 V

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-27)

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2 CHECK WIRE HARNESS (ECM - BODY GROUND)



- Disconnect the E6 ECM connector.
- Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
E6-7 (E1) - Body ground	Below 1 Ω

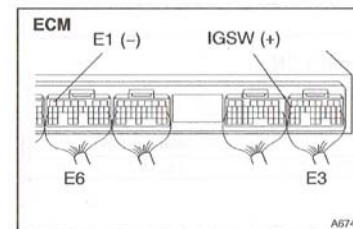
- Reconnect the ECM connector.

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

3 INSPECT ECM (IGSW VOLTAGE)



- Turn the ignition switch ON.
- Measure the voltage of the ECM connectors.

Standard:

Tester Connection	Specified Condition
E3-17 (IGSW) - E6-7 (E1)	9 to 14 V

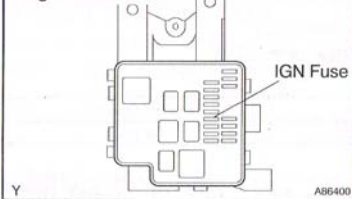
OK

Go to step 6

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4 INSPECT FUSE (IGN)

Engine Room R/B



- Remove the IGN fuse from the engine room Relay Block (R/B).
- Measure the resistance.
Standard: Below 1 Ω
- Reinstall the IGN fuse.

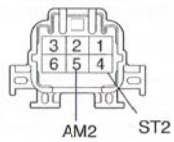
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CHECK FOR SHORT IN ALL HARNESSES AND COMPONENTS CONNECTED FUSE

OK

5 INSPECT IGNITION SWITCH

Ignition Switch



Measure the resistance of the ignition switch.

Standard:

Switch Condition	Tester Connection	Specified Condition
ON	4 - 5	Below 1 Ω
START	4 - 5	10 k Ω or higher

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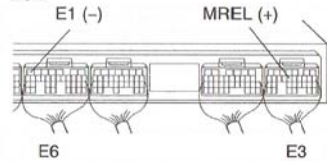
REPAIR OR REPLACE IGNITION SWITCH

OK

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

6 INSPECT ECM (MREL VOLTAGE)

ECM



- Turn the ignition switch ON.
- Measure the voltage of the ECM.

Standard:

Tester Connection	Specified Condition
E3-13 (MREL) - E6-7 (E1)	9 to 14 V

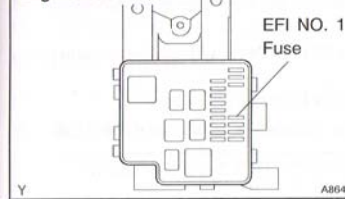
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REPLACE ECM (See page 10-20)

OK

7 CHECK FUSE (EFI NO. 1)

Engine Room R/B



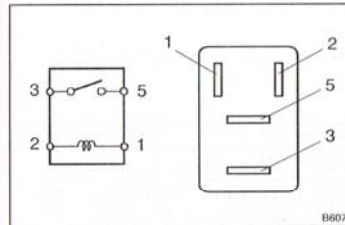
- Remove the EFI NO. 1 fuse from the engine room R/B.
- Measure the resistance.
Standard: Below 1 Ω

NG

REPLACE FUSE (EFI NO. 1)

OK

8 INSPECT EFI MAIN RELAY



- Remove the EFI MAIN relay from the engine room R/B.
- Measure the resistance.

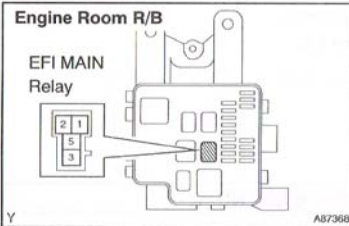
Standard:

Tester Connection	Specified Condition
3 - 5	10 k Ω or higher
3 - 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

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REPLACE EFI MAIN RELAY

OK

9 CHECK WIRE HARNESS (EFI MAIN RELAY - ECM, EFI MAIN RELAY - BODY GROUND)


(a) Check the wire harness between the EFI MAIN relay and ECM.

- (1) Remove the EFI MAIN relay from the engine room R/B.
- (2) Disconnect the E3 ECM connector.
- (3) Measure the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
R/B EFI MAIN relay terminal 1 - E3-13 (MREL)	Below 1 Ω
R/B EFI MAIN relay terminal 1 or E3-13 (MREL) - Body ground	10 k Ω or higher

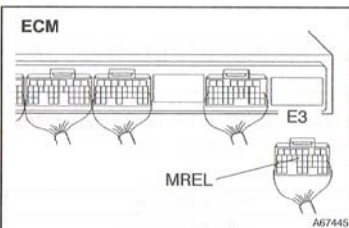
(b) Check the wire harness between the EFI MAIN relay and the body ground.

- (1) Remove the EFI MAIN relay from the engine room R/B.
- (2) Measure the resistance of the wire harness side connector.

Standard:

Tester Connection	Specified Condition
R/B EFI MAIN relay terminal 2 - Body ground	Below 1 Ω

NG CHECK AND REPAIR HARNESS AND CONNECTOR (TERMINAL +B OF ECM - BATTERY POSITIVE TERMINAL)



OK

REPAIR OR REPLACE HARNESS AND CONNECTOR