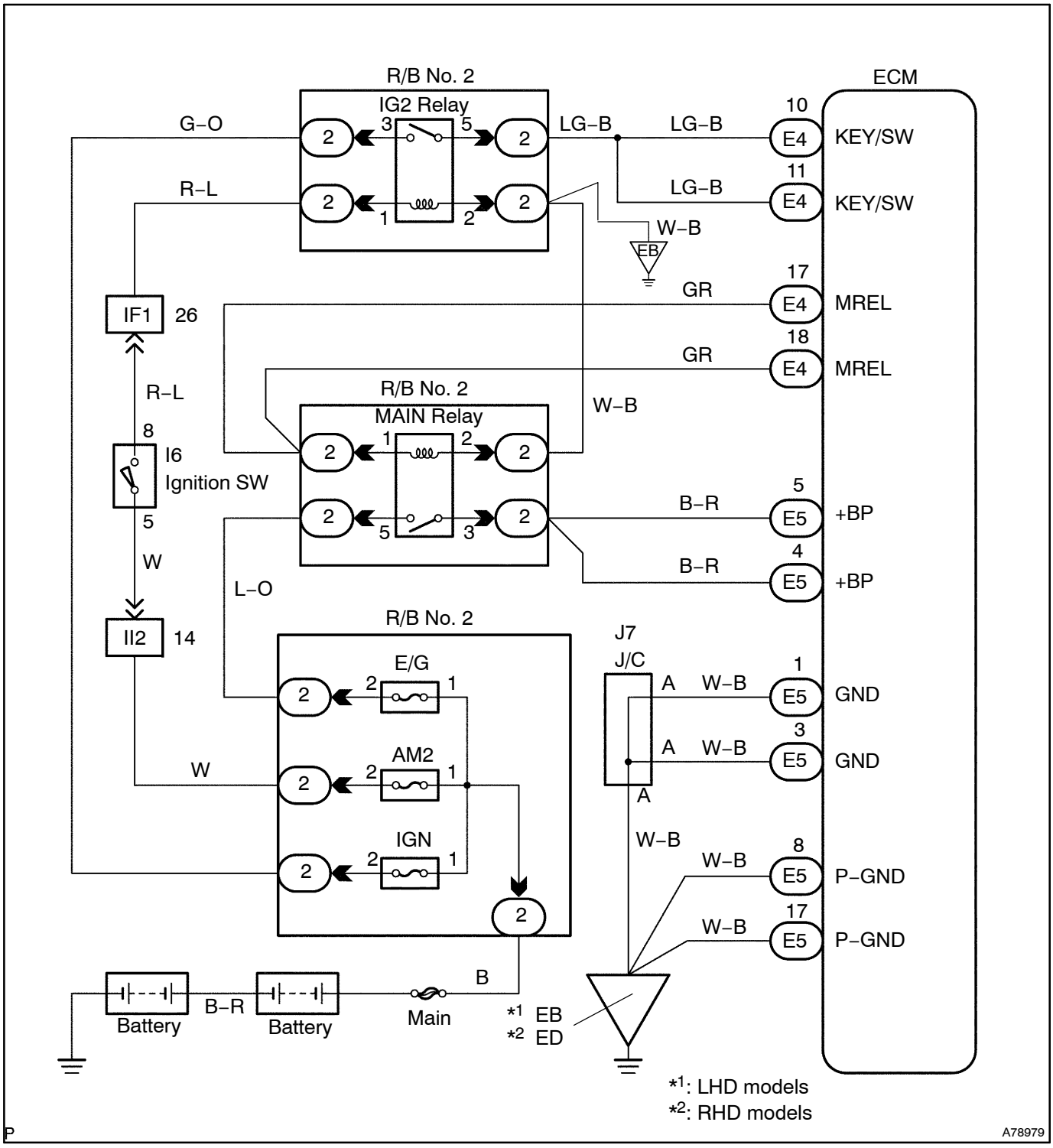
ECM POWER SOURCE CIRCUIT

CIRCUIT DESCRIPTION

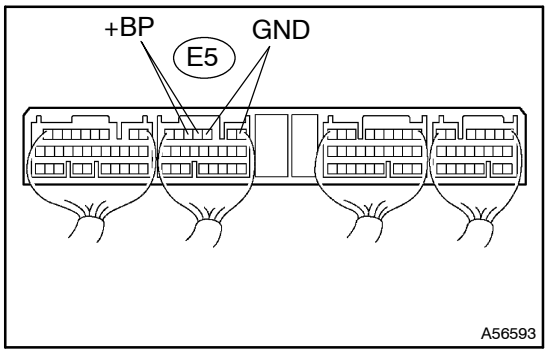
When the ignition switch is turned ON, battery positive voltage is applied to the coil, closing the contacts of the EFI relay (Marking: EFI) and supplying power to the terminal +B of the ECM.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK ECM (VOLTAGE)



(a) Turn the ignition switch ON.
(b) Check the voltage between the terminals of the ECM connector.

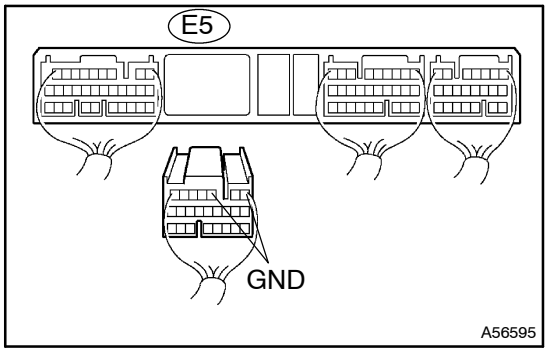
Voltage:

Symbols (Terminal No.)	Voltage
+BP (E5–4, E5–5) ⇔ GND (E5–1, E5–3)	26 – 29.6 V

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05–118)**

NG

2 CHECK WIRE HARNESS (ECM ⇔ BODY GROUND)



(a) Disconnect the E5 ECM connector.
(b) Check the continuity between the terminals of the ECM connector.

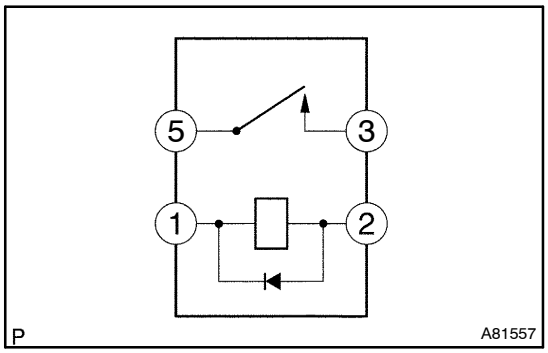
Continuity (Check for open):

Symbols (Terminal No.)	Standard
GND (E5–1, E5–3) ⇔ Body ground	Continuity (1 Ω or less)

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

OK

3 CHECK MAIN RELAY



(a) Remove the MAIN relay from the R/B No. 2.
(b) Inspect the MAIN relay continuity.
  (1) Using an ohmmeter, check that there is no continuity between terminals 3 and 5.
  (2) Check that there is continuity between terminals 1 and 2.

NG → **REPLACE MAIN RELAY**

OK

4	CHECK FUSE

(a) Remove the E/G fuse from the R/B No. 2.
(b) Check the continuity of the E/G fuse.
Result: Continuity
(c) Check for short in all harness and components connected to the E/G fuse.

NG → **REPLACE FUSE**

OK

5	CHECK WIRE HARNESS (ECM ⇔ EFI MAIN RELAY) (a) (EFI MAIN RELAY ⇔ BATTERY) (b) (See page 01–27)

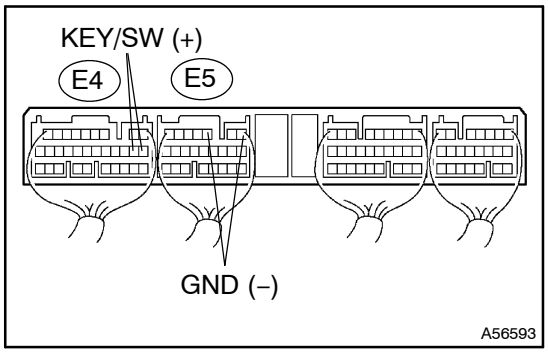
Standard (Check for open):

Terminal No.	Standard
5 ⇔ Battery positive terminal	Continuity

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

OK

6	CHECK ECM (VOLTAGE)



(a) Turn the ignition switch ON.
(b) Check the voltage between the terminals of the ECM connectors.
Voltage:

Symbols (Terminal No.)	Voltage
KEY/SW (E4–10, E4–11) ⇔ GND (E5–1, E5–3)	26 – 29.6 V

OK → **Go to step ******

NG

7	CHECK IGNITION OR STARTER SWITCH ASSY (See page 80–2)

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

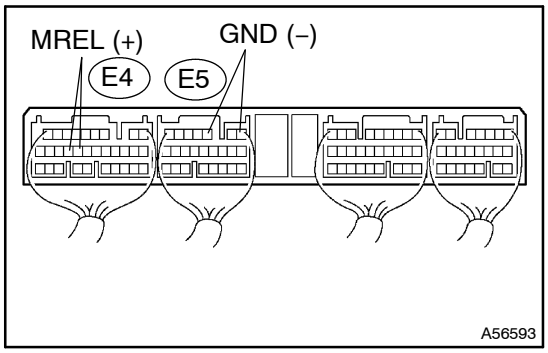
OK

8	CHECK HARNESS AND CONNECTOR (ECM ⇔ IGNITION SWITCH) (See page 01–27)

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

9	CHECK ECM (VOLTAGE)



(a) Turn the ignition switch ON.
(b) Check the voltage between the terminals of the ECM connectors.

Voltage:

Symbols (Terminal No.)	Voltage
MREL (E4–17, E4–18) ⇔ GND (E5–1, E5–3)	26 – 29.6 V

OK → CHECK AND REPLACE ECM (See page 01–27)

NG

10	CHECK HARNESS AND CONNECTOR (ECM ⇔ EFI MAIN RELAY) (a) (EFI MAIN RELAY ⇔ BODY GROUND) (b) (See page 01–27)

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPAIR OR REPLACE ENGINE ROOM RELAY BLOCK