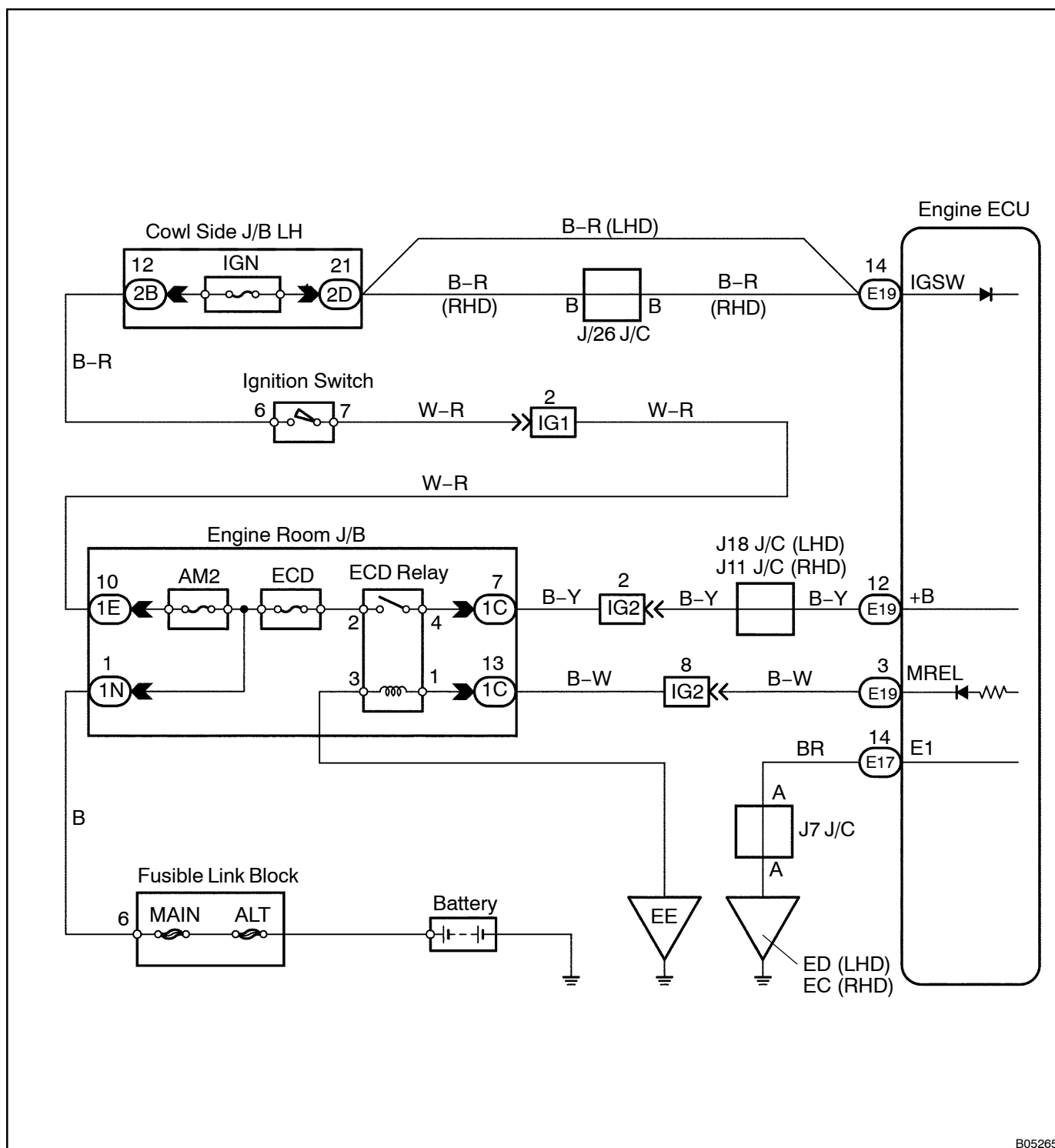DI322−02

ECU Power Source Circuit
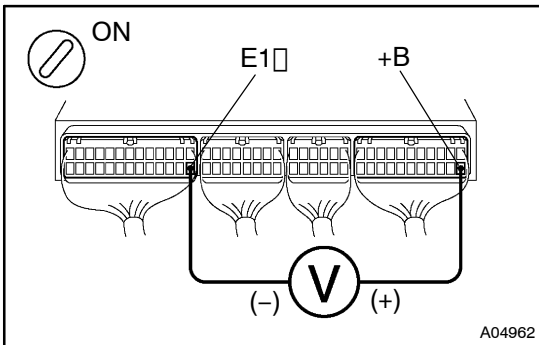
CIRCUIT DESCRIPTION

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

WIRING DIAGRAM

1HZ, 1HD−T, 1HD−FTE ENGINE (RM617E)

INSPECTION PROCEDURE

1	Check voltage between terminals +B and E1 of engine ECU.

PREPARATION:
(a) Remove the glove compartment door.
(b) Turn the ignition switch ON.
CHECK:
Measure voltage between terminals +B and E1 of engine ECU.
OK:

Voltage: 9 – 14 V

> **OK** **Proceed to next circuit inspection shown on problem symptoms table (See page DI–19).**

NG

2	Check for open in harness and connector between terminal E1 of engine ECU and body ground (See page IN–19).

> **NG** **Repair or replace harness or connector.**

OK

3	Check ECD main relay (Marking: ECD) (See page ED–3).

> **NG** **Replace ECD main relay.**

OK

4	Check ECD fuse.

PREPARATION:
Remove the ECD fuse from the engine room J/B.
CHECK:
Check continuity of ECD fuse.
OK:
    Continuity

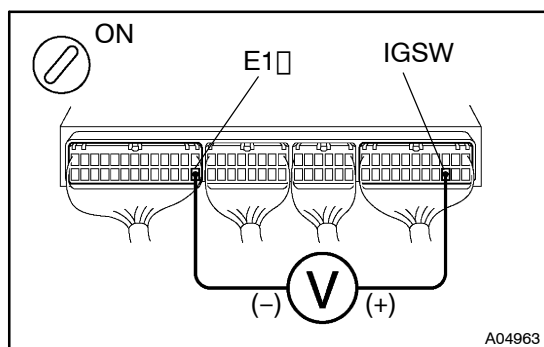| NG	Check for short in all the harness and components connected to ECD fuse.

OK

5	Check for open in harness and connector between engine ECU and ECD main relay (Marking: ECD), ECD main relay and battery (See page IN−19).

NG	Repair harness or connector.

OK

6	Check voltage between terminals IGSW and E1 of engine ECU.

PREPARATION:
(a)   Remove the glove compartment door.
(b)   Turn the ignition switch ON.
CHECK:
Measure voltage between terminals IGSW and E1 of engine ECU.
OK:
    Voltage : 9 − 14 V

OK	Go to step 9.

NG

1HZ, 1HD−T, 1HD−FTE ENGINE (RM617E)

| 7 | Check ignition switch (See Pub. No. RM616E2 BE section). |

```
                                    NG ⟩ Replace ignition switch.
```

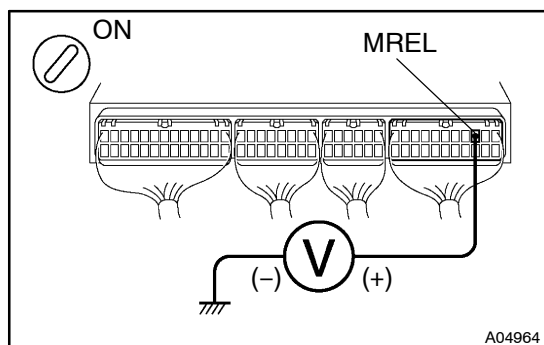**OK**

| 8 | Check for open in harness and connector between ignition switch and engine ECU (**See page IN–19**). |

```
                                    NG ⟩ Repair or replace harness or connector.
```

OK

| 9 | Check voltage between terminal MREL of engine ECU and body ground. |

ON   MREL

(–)   (+)

A04964

PREPARATION:
(a) Remove the glove compartment door.
(b) Turn the ignition switch ON.
CHECK:
Measure voltage between terminal MREL of engine ECU and body ground.
OK:
Voltage: 9 – 14 V

```
OK ⟩ Check and replace engine ECU
     (See page IN–19).
```

NG

| Check for open in harness and connector between engine ECU and ECD main relay (Marking: ECD), ECD main relay and body ground (**See page IN–19**). |

1HZ, 1HD–T, 1HD–FTE ENGINE   (RM617E)