

Power source circuit (Body ECU (Main))

CIRCUIT DESCRIPTION

This circuit supplies power to operate the Body ECU (Main).

This wiring diagram illustrates the electrical system for the 2003 Lexus LX470 (RM073U), focusing on the engine control system, battery, and various relays and switches. The diagram is organized into several main sections:

- Engine Control System:** This section includes the **ECU-B2** (Engine Control Unit - Body 2) and the **ACC CUT Relay**. The ECU-B2 is connected to the **ACC CUT Relay** via a **SB** (Signal Body) line. The ACC CUT Relay is connected to the **ACC** (Accessory) line and the **ECU-IG1** (Engine Control Unit - Ignition 1).
- Battery:** The **Battery** is connected to the **Engine Room J/B** (Engine Room Junction Box) via a **BAT** (Battery) line. The Engine Room J/B is connected to the **Short Pin** and the **1C** terminal.
- Relays and Switches:**
 - ACC Relay:** Connected to the **ACC** line and the **ECU-IG1**.
 - IG1 No.2 Relay:** Connected to the **IG1** (Ignition 1) line and the **ECU-IG1**.
 - AM1:** A switch connected to the **ACC** line and the **ECU-IG1**.
 - I18 Ignition Switch:** Connected to the **IG1** line and the **ACC** line.
 - Fusible Link Block:** Contains fuses for **J/B No.2**, **J/B No.3**, and **MAIN**. It is connected to the **BAT** line and the **ACC** line.
- Wiring Connections:**
 - L-O** (Line to Output) connects to the **ECU-B2**.
 - B-G** (Body to Ground) connects to the **ACC CUT Relay** and the **ECU-IG1**.
 - SB** (Signal Body) connects to the **ACC CUT Relay** and the **ECU-IG1**.
 - B-R** (Body to Relay) connects to the **ACC Relay** and the **IG1 No.2 Relay**.
 - L-B** (Line to Body) connects to the **ACC Relay** and the **IG1 No.2 Relay**.
 - B** (Body) connects to the **I18 Ignition Switch** and the **Fusible Link Block**.
 - B-G** (Body to Ground) connects to the **ECU-IG1** and the **Fusible Link Block**.
- Grounding:** The diagram shows three ground points labeled **GND1**, **GND2**, and **GND3**, each connected to a different part of the system.

The diagram is a detailed technical drawing showing the electrical connections between various components, including the battery, engine control system, and various relays and switches. It includes labels for terminals, wires, and components, as well as a legend for the symbols used.

INSPECTION PROCEDURE**1 Check ECU-B2, DOOR fuse.****CHECK:**

Check continuity of ECU-B2, DOOR fuse.

OK:

Continuity

NG**Replace faulty fuse.****OK****2 Check voltage between terminals BDR1, BECU and GND1, 2 of Body ECU (Main) connector.****PREPARATION:**

- (a) Turn the ignition switch OFF.
- (b) Disconnect the Body ECU (Main) connector.

CHECK:

Measure voltage between terminals BDR1, BECU and GND1, 2.

OK:

Voltage: 10 – 14V

OK**Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1242](#)).****NG****3 Check wire harness and connector between Body ECU (Main) and body ground, Body ECU (Main) and fuse (See page [IN-36](#)).****NG****Repair or replace wire harness or connector.****OK**

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1242](#)).