

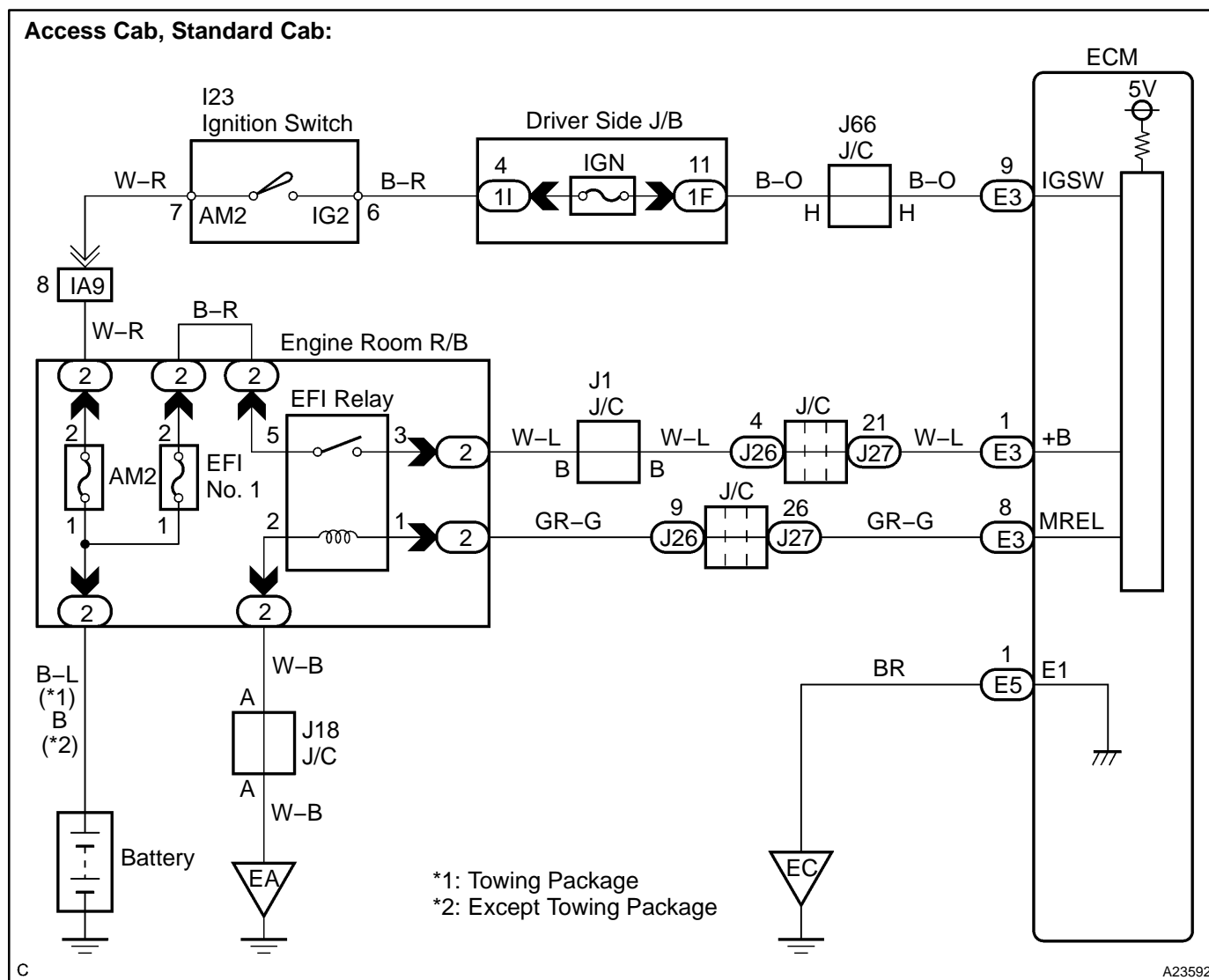
ECM Power Source Circuit

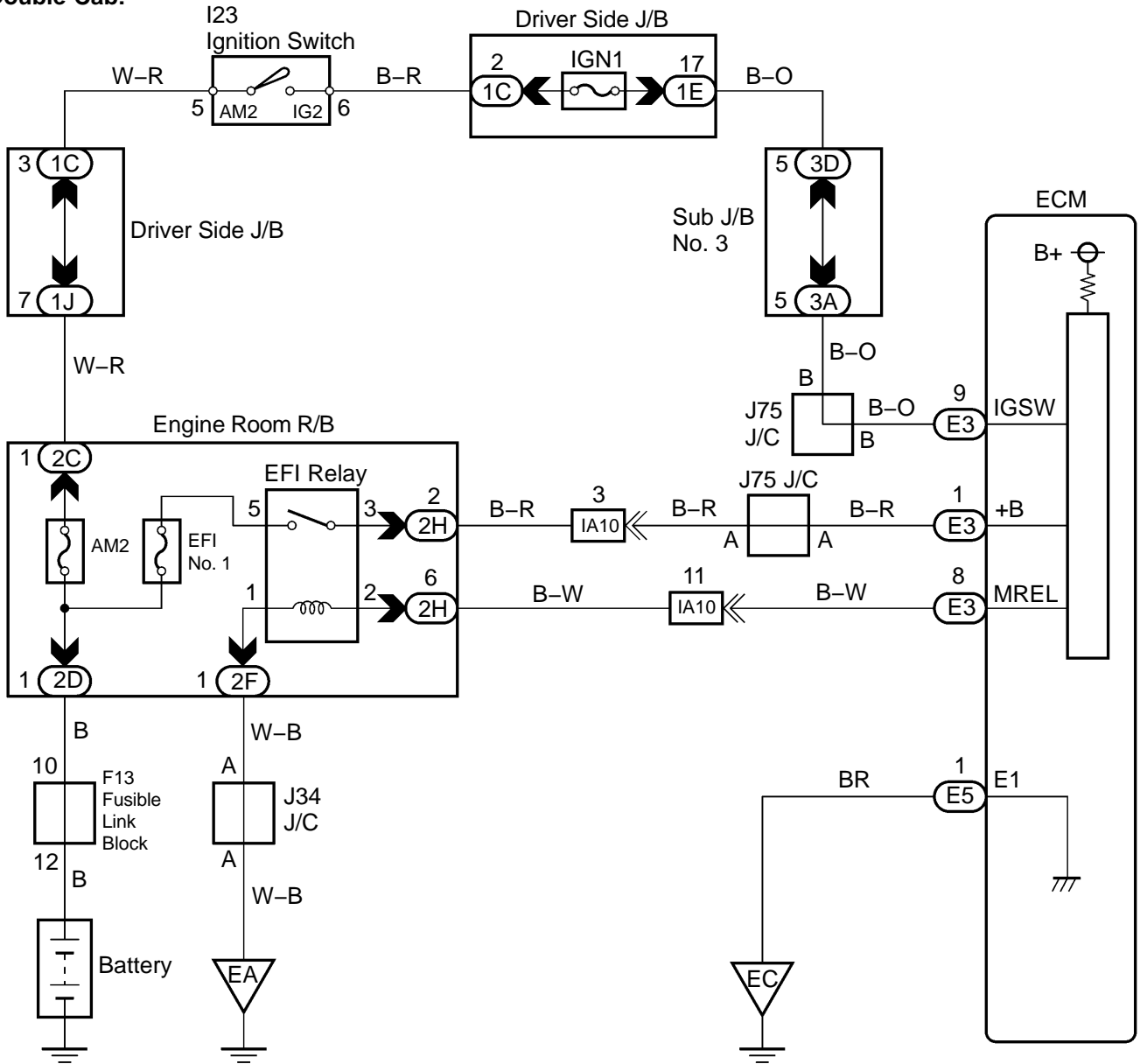
CIRCUIT DESCRIPTION

When the ignition switch is turned ON, battery positive voltage is applied to terminal IGSW of the ECM and the EFI relay control circuit in the ECM sends a signal to terminal MREL of the ECM switching on the EFI relay.

This signal causes current to flow to the coil, closing the contacts of the EFI relay and supplying power to terminal +B of the ECM.

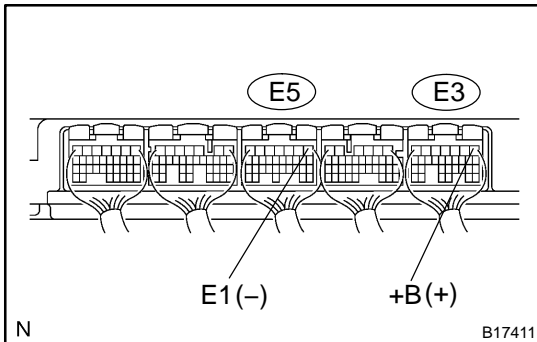
WIRING DIAGRAM



Double Cab:

INSPECTION PROCEDURE

- 1** Check voltage between terminals +B and E1 of ECM connector.

**PREPARATION:**

Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals +B and E1 of the ECM connectors.

OK:

Standard: 9 to 14 V

OK

Proceed to next circuit inspection shown in the Problem symptoms table (See page [DI-452](#)).

NG

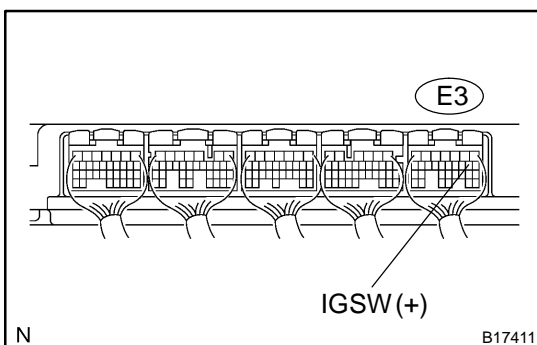
- 2** Check for open in harness and connector between terminal E1 of ECM and body ground (See page [IN-30](#)).

NG

Repair or replace harness or connector.

OK

- 3** Check voltage between terminal IGSW of ECM connector and body ground.

**PREPARATION:**

Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal IGSW of the ECM connector and body ground.

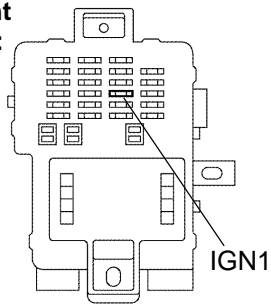
OK:

Standard: 9 to 14 V

OK

Go to step 6.

NG

4 Check IGN1 fuse.**Instrument Panel J/B:**

C

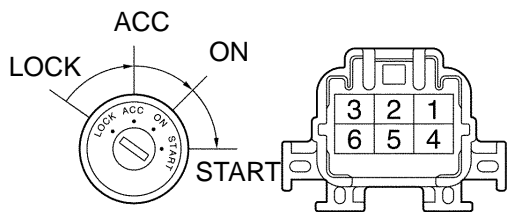
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PREPARATION:

Remove the IGN1 fuse from the instrument panel J/B.

CHECK:

Check the resistance of the IGN1 fuse.

OK:**Below 1 Ω** **NG****Check for short in all harness and components connected to IGN1 fuse.****OK****5 Check ignition switch (See page [BE-37](#)).**

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PREPARATION:

- (a) Remove the lower finish panel.
- (b) Disconnect the ignition switch connector.

CHECK:

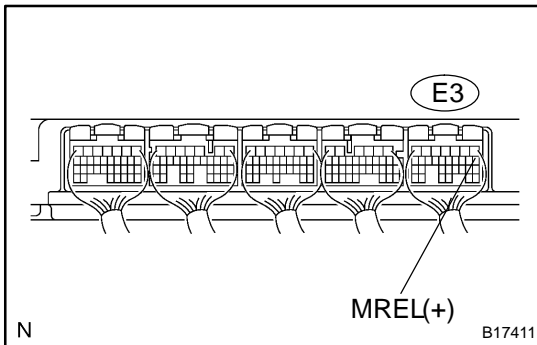
Check resistance between terminals.

OK:**Standard:**

Switch Position	Terminal Condition	Specified Condition
LOCK	Always	10 k Ω or more
ACC	1 - 3	Below 1 Ω
ON	1 - 2 - 3 5 - 6	Below 1 Ω
START	1 - 2 4 - 5 - 6	Below 1 Ω

NG**Replace ignition switch.****OK****Check and repair harness and connector between IGN fuse and ECM.**

6 Check voltage between terminal MREL of ECM connector and body ground.

**PREPARATION:**

Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal MREL of the ECM connector and body ground.

OK:

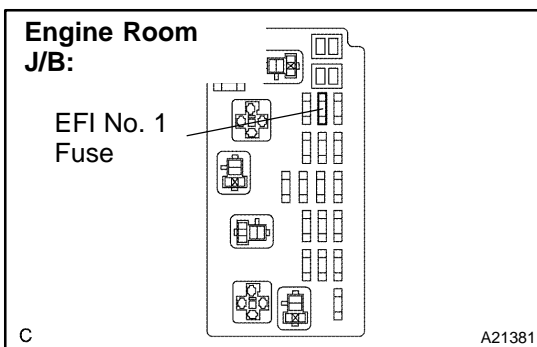
Standard: 9 to 14 V

NG

Replace ECM (See page [SF-82](#)).

OK

7 Check EFI No. 1 fuse of engine room J/B.

**PREPARATION:**

Remove the EFI No. 1 fuse from the engine room J/B.

CHECK:

Check resistance of EFI No. 1 fuse.

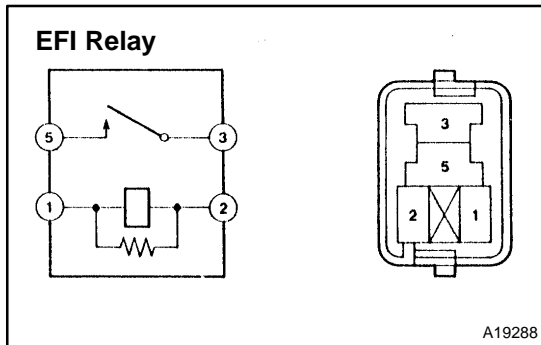
OK:

Below 1 Ω

NG

Check for short in all harness and components connected to EFI No. 1 fuse.

OK

8 Check EFI relay.**PREPARATION:**

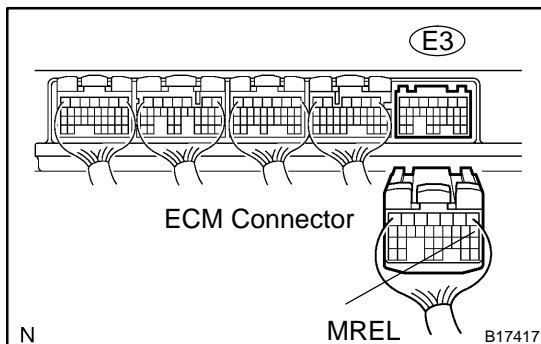
Remove the EFI relay from the engine room J/B.

CHECK:

Inspect the EFI relay.

OK:**Standard:**

Terminal No.	Condition	Specified Condition
3 – 5	Always	10 K Ω or higher
3 – 5	Apply B+ between terminals 1 and 2	Below 1 Ω

NG**Replace EFI relay.****OK****9 Check for open and short in harness and connector between terminal MREL of ECM and body ground.****PREPARATION:**

Disconnect the E3 ECM connector.

CHECK:

Measure the resistance between the wire harness side connector and body ground.

OK:**Standard:**

Tester Connection	Specified Condition
MREL (E3–8) – Body ground	Below 1 Ω

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

Check for intermittent problems
(See page [DI-430](#)).