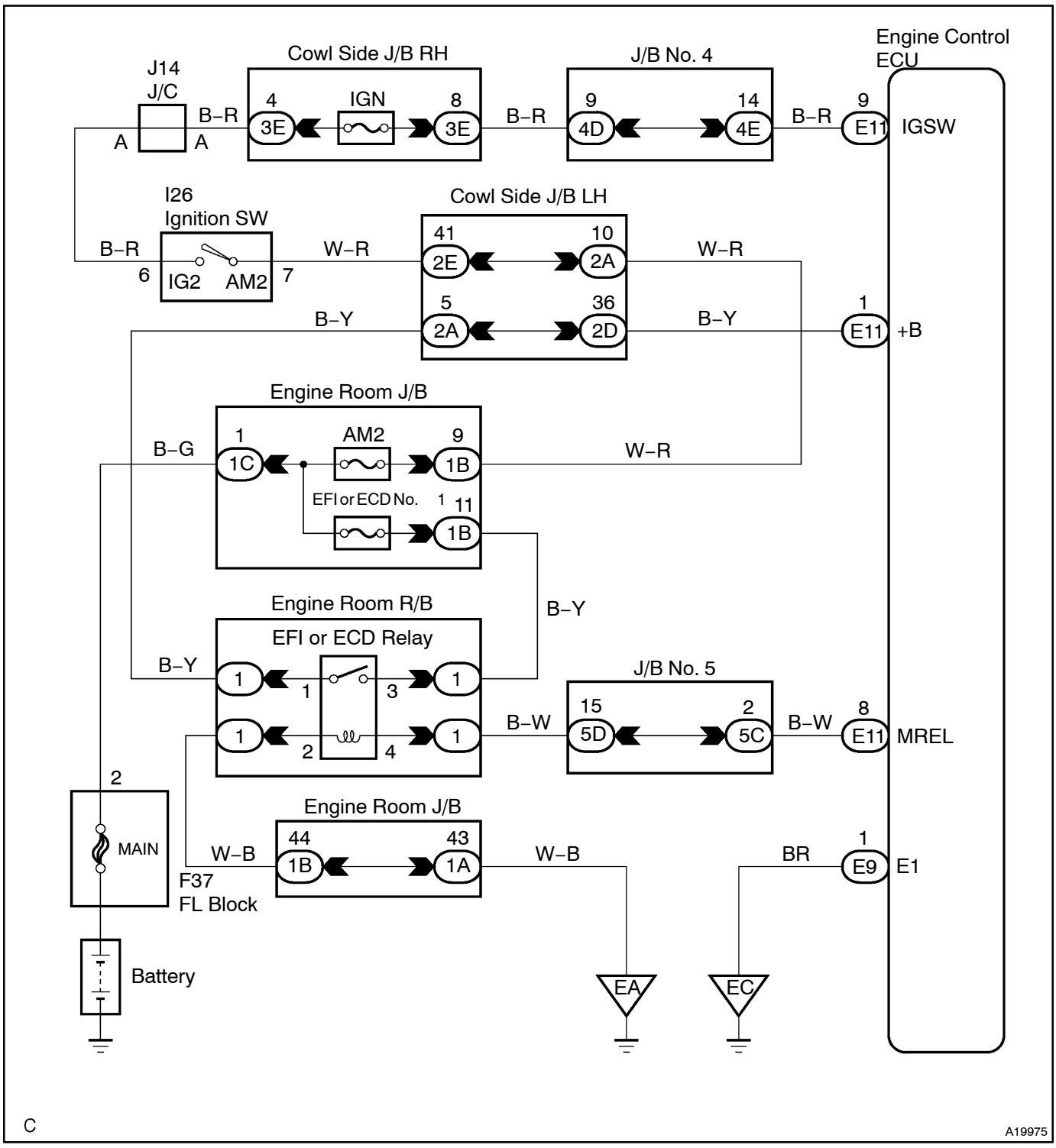
DIB2X–04

Engine Control ECU Power Source Circuit

CIRCUIT DESCRIPTION

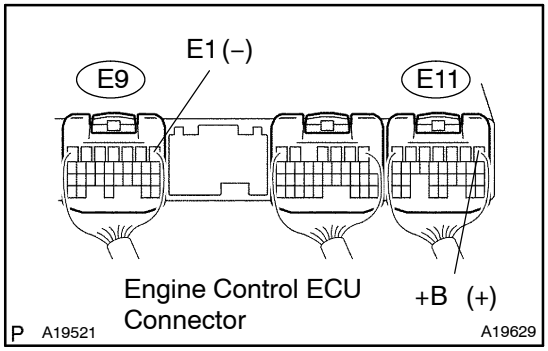
When the ignition switch is turned ON, battery positive voltage is applied to terminal IGSW of the engine control ECU and the EFI or ECD relay control circuit in the engine control ECU sends a signal to terminal MREL of the engine control ECU switching on the EFI or ECD relay.
This signal causes current to flow to the coil, closing the contacts of the EFI or ECD relay and supplying power to terminal +B of the engine control ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

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



PREPARATION:
Turn the ignition switch ON.
CHECK:
Measure the voltage between terminals +B and E1 of the engine control ECU connectors.
OK:
Voltage: 9 to 14 V

OK	**Proceed to next circuit inspection shown on problem symptoms table (See page DI–34).**

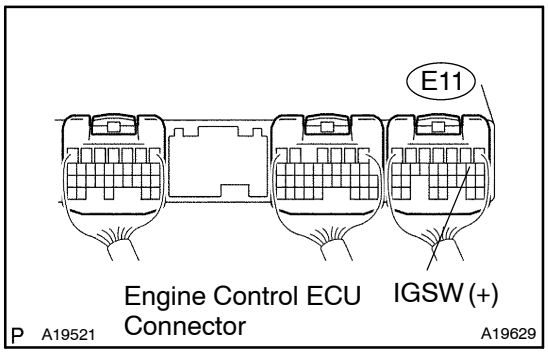
NG

2	**Check for open in harness and connector between terminal E1 of engine control ECU and body ground (See page IN–20).**

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

OK

3	**Check voltage between terminal IGSW of engine control ECU connector and body ground.**

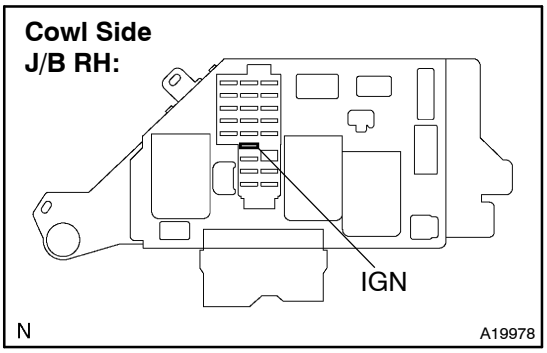


PREPARATION:
Turn the ignition switch ON.
CHECK:
Measure the voltage between terminal IGSW of the engine control ECU connector and body ground.
OK:
Voltage: 9 to 14 V

OK	**Go to step 6.**

NG

4	Check IGN fuse.



PREPARATION:
Remove the IGN fuse from the cowl side J/B RH.
CHECK:
Check the continuity of the IGN fuse.
OK:
Continuity

NG → **Check for short in all harness and components connected to IGN fuse.**

OK

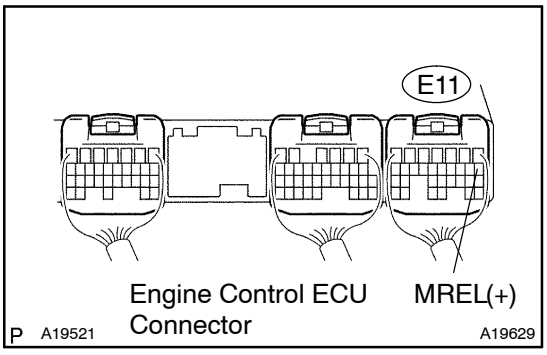
5	Check ignition switch (See Pub. No. RM616E, page BE–20).

NG → **Replace ignition switch.**

OK

Check and repair harness and connector between battery and ignition switch, and ignition switch and engine control ECU (See page IN–20).

6	Check voltage between terminal MREL of engine control ECU connector and body ground.



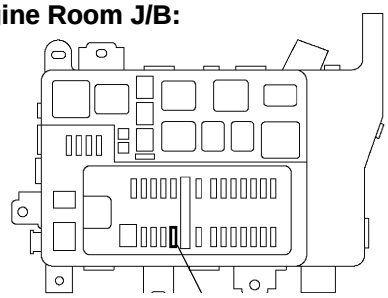
PREPARATION:
Turn the ignition switch ON.
CHECK:
Measure the voltage between terminal MREL of the engine control ECU connector and body ground.
OK:
Voltage: 9 to 14 V

NG → **Replace engine control ECU (See Pub. No. RM630E, FI –74).**

OK

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

Engine Room J/B:



PREPARATION:
Remove the EFI or ECD No. 1 fuse from the engine room J/B.
CHECK:
Check continuity of EFI or ECD No. 1 fuse.
OK:
Continuity

NG → **Check for short in all harness and components connected to EFI or ECD No. 1 fuse.**

OK

8	Check EFI or ECD relay (See Pub. No. RM630E, page FI−52).

NG → **Replace EFI or ECD relay.**

OK

9	Check for open and short in harness and connector between terminal MREL of engine control ECU and body ground (See page IN−20).

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

OK

Check and repair harness or connector between EFI or ECD No. 1 fuse and battery (See page IN−20).