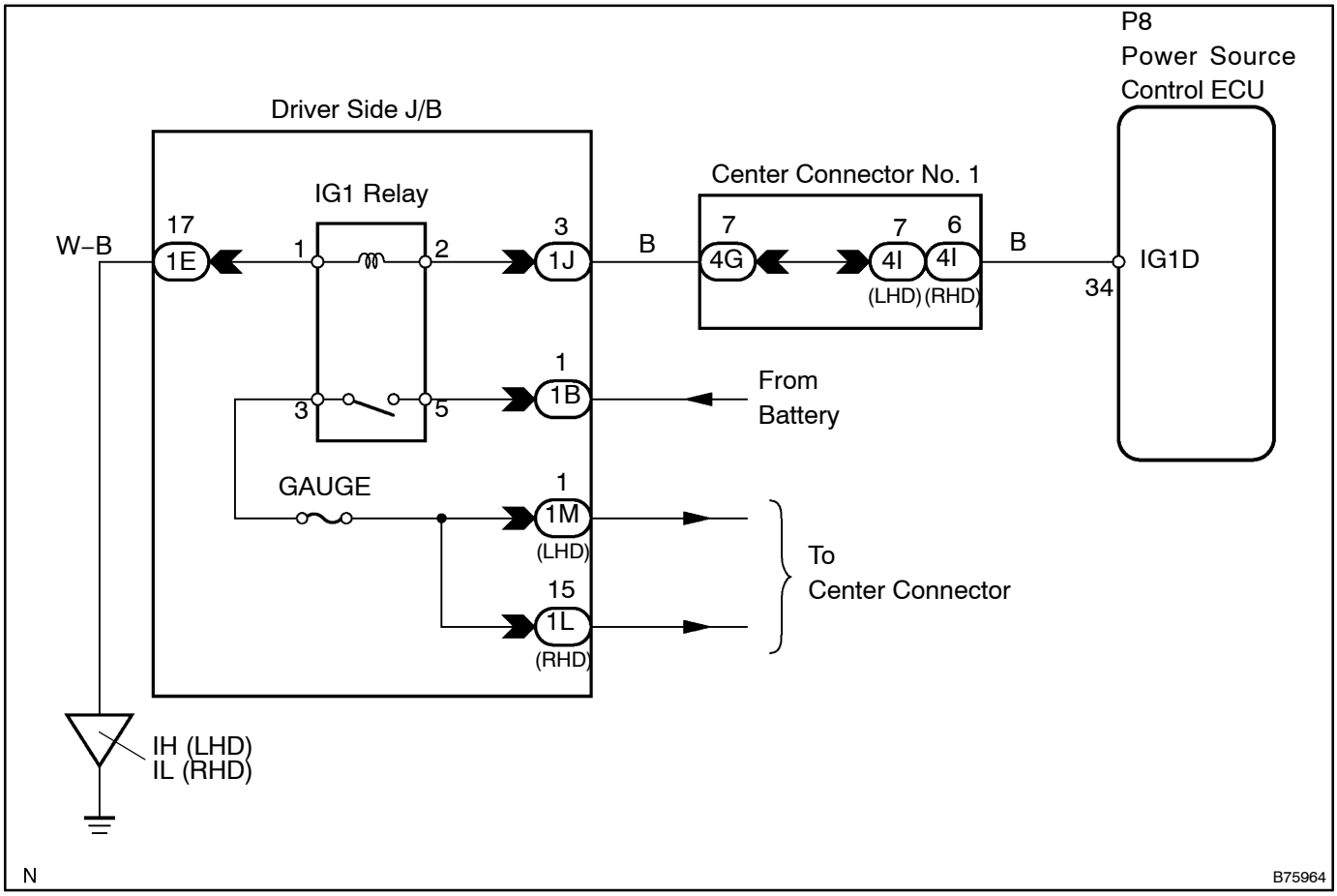
DTC B2272 IGNITION 1 MONITOR MALFUNCTION

CIRCUIT DESCRIPTION

This DTC is output when the IG output circuit from the inside of the power source control ECU to the IG1 relay is malfunctioning.

DTC No.	DTC detecting condition	Trouble area
B2272	IG1 relay actuation circuit inside power source control ECU or other related circuits is malfunctioning	• Power source control ECU • IG1 relay • Wire harness

WIRING DIAGRAM



INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER II

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the power switch ON (IG) and press the intelligent tester II main switch ON.
(c) Select the items below in the DATA LIST, and read the displays on the tester.
Standard (Power source control ECU):

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
IG1 Relay Mon 1	States of the IG1 Relay Monitor / ON or OFF	ON: Power switch ON (IG1 relay is ON)) OFF: Power switch OFF (IG1 relay is OFF)	–

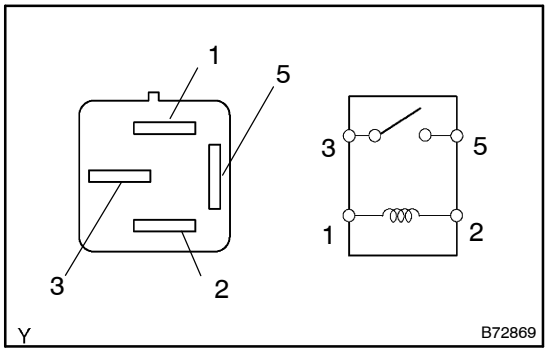
OK: ”ON” (Power switch ON (IG)) appears on the screen.

NG → **Go to step 2**

OK

REPLACE POWER SOURCE CONTROL ECU

2	INSPECT RELAY (IG1)



(a) Remove the IG1 relay from the driver side J/B.
(b) Measure the resistance.
Standard:

Tester Connection	Specified Condition
3 – 5	10 kΩ or higher
3 – 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

NG → **REPLACE RELAY**

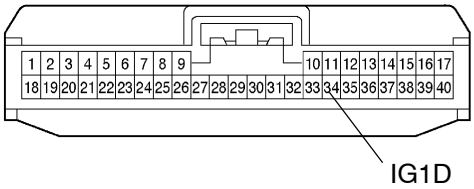
OK

3	CHECK WIRE HARNESS (DRIVER SIDE J/B – POWER SOURCE CONTROL ECU AND BODY GROUND)

Wire Harness Side

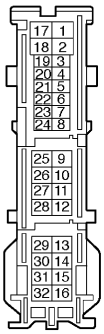
P8

Power source control ECU



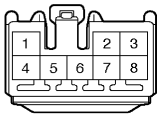
1J

Driver Side J/B



1E

Driver Side J/B



Y

B79834

(a) Disconnect the 1J and 1E driver side J/B connector.
(b) Disconnect the P8 ECU connector.
(c) Measure the resistance of the wire harness side connectors.

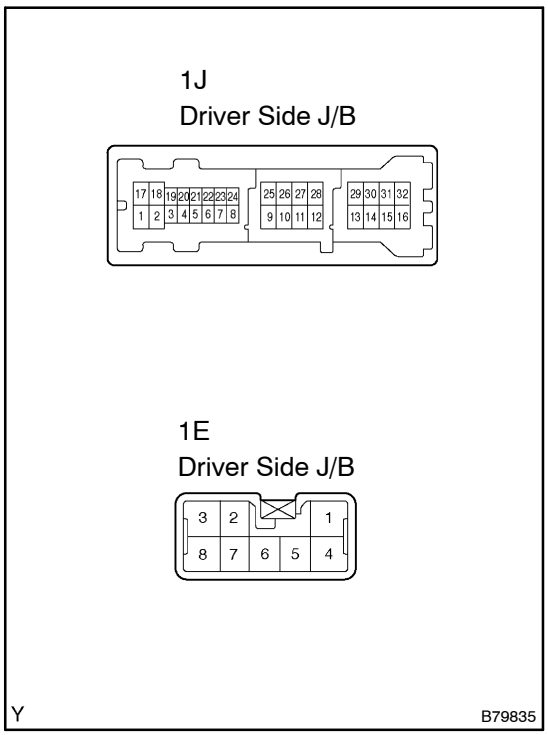
Standard:

Tester Connection	Specified Condition
1J–3 – P8–34 (IG1D)	Below 1 Ω
1J–3 or P8–34 – Body ground	10 kΩ or higher
1E–17 – Body ground	Below 1 Ω

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

OK

4	CHECK DRIVER SIDE J/B



(a) Remove the IG1 relay from driver side J/B.
(b) Disconnect the 1J and 1E driver side J/B connector.
(c) Measure the resistance of driver side J/B.

Standard:

Tester Connection	Specified Condition
1J–3 – Driver side J/B IG1 relay terminal 2	Below 1 Ω
1J–3 – Driver side J/B IG1 relay terminal 2	10 kΩ or higher
1J–17 – Driver side J/B IG1 relay terminal 1	10 kΩ or higher

NG → **REPLACE DRIVER SIDE J/B**

OK

REPLACE POWER SOURCE CONTROL ECU