DTC	B1471	A/C INVERTER HIGH VOLTAGE POWER RESOURCE SYSTEM MALFUNCTION

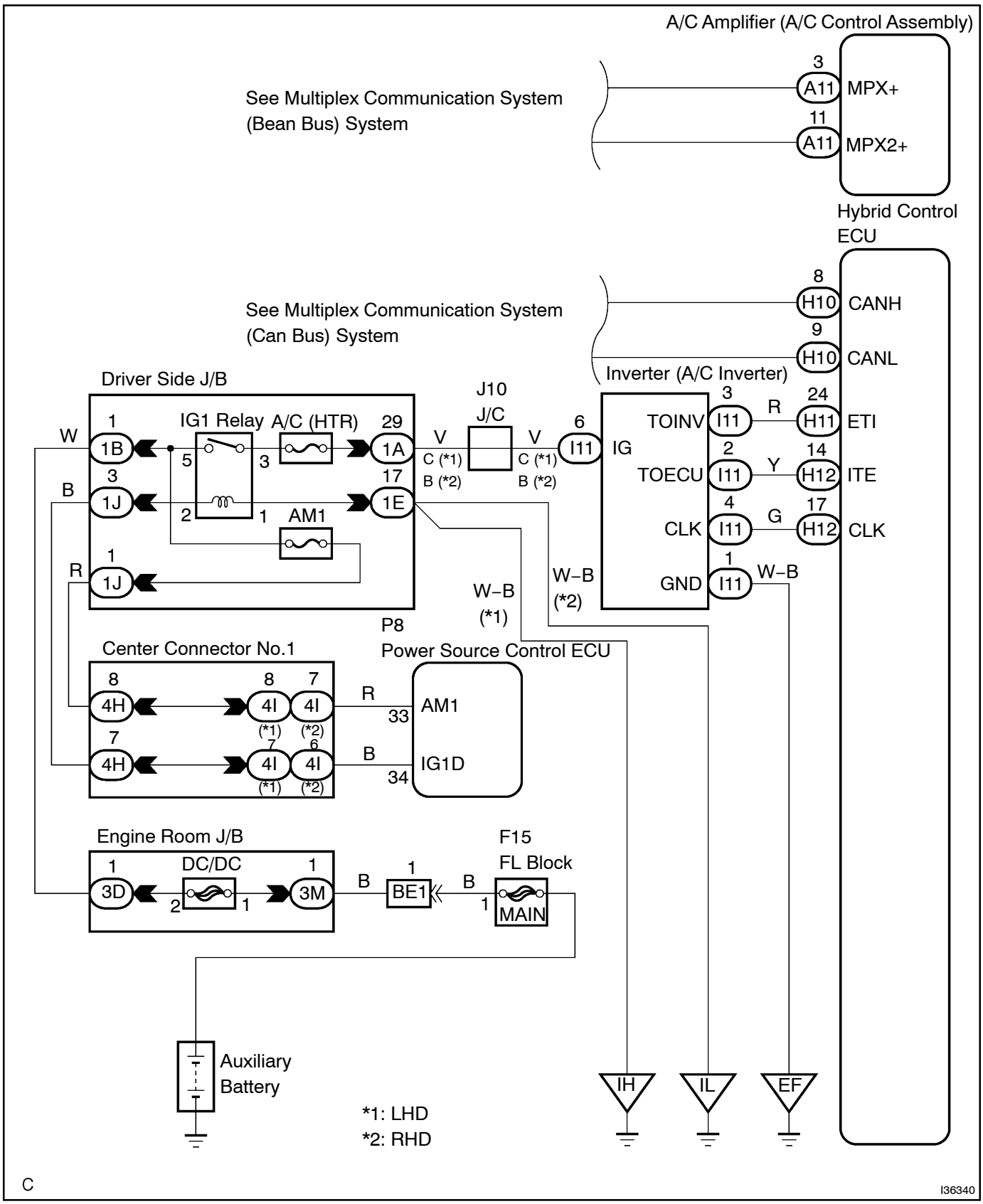
CIRCUIT DESCRIPTION

The A/C inverter assy monitors the power voltage from the main battery in the self circuit. It stops compressor control and outputs the DTC when the monitored voltage is outside the specified range.
The output DTC is memorized as previous trouble. Compressor control may not resume unless the power switch is turned off.
HINT:
The hybrid control system and air conditioning system output DTCs separately. Inspect DTCs following the flow chart for the hybrid control system first if any DTCs from those systems are output simultaneously.

DTC No.	Detection item	Trouble Area
B1471	Open or short in A/C inverter high voltage power resource system	• Hybrid control ECU • A/C inverter (w/converter inverter assy)

NOTICE:
The A/C inverter is integrated with the inverter assy. It is necessary to replace the PCU box assy if the A/C inverter (inverter assy) needs to be replaced because the A/C inverter (inverter assy) cannot be replaced alone.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK DIAGNOSTIC TROUBLE CODE

(a) Check if DTCs for the hybrid control system are output using intelligent tester II.
OK:
DTCs are not output in the hybrid control system.

NG → **GO TO HYBRID CONTROL SYSTEM (SEE PAGE 05–268)**

OK

REPLACE A/C INVERTER ASSY

NOTICE:
The A/C inverter is integrated with the inverter assy. It is necessary to replace the PCU box assy if the A/C inverter (inverter assy) needs to be replaced because the A/C inverter (inverter assy) cannot be replaced alone.