

## P0643 SENSOR POWER SUPPLY

< COMPONENT DIAGNOSIS >

[HR16DE]

### P0643 SENSOR POWER SUPPLY

#### DTC Logic

INFOID:000000004780243

#### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P0643	Sensor power supply circuit short	ECM detects a voltage of power source for sensor is excessively low or high.	<ul style="list-style-type: none"><li>• Harness or connectors (APP sensor 1 circuit is shorted.) (TP sensor circuit is shorted.) (Battery current sensor circuit is shorted.) (PSP sensor circuit is shorted.) [Camshaft position sensor (PHASE) circuit is shorted.]</li><li>• Accelerator pedal position sensor</li><li>• Throttle position sensor</li><li>• Battery current sensor</li><li>• Power steering pressure sensor</li><li>• Camshaft position sensor (PHASE)</li></ul>

#### DTC CONFIRMATION PROCEDURE

##### 1. PRECONDITIONING

If DTC Confirmation Procedure has been previously conducted, always turn ignition switch OFF and wait at least 10 seconds before conducting the next test.

##### TESTING CONDITION:

**Before performing the following procedure, confirm that battery voltage is more than 8 V at idle.**

>> GO TO 2.

##### 2. PERFORM DTC CONFIRMATION PROCEDURE

1. Start engine and let it idle for 1 second.
2. Check DTC.

##### Is DTC detected?

- YES >> Go to [EC-359, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

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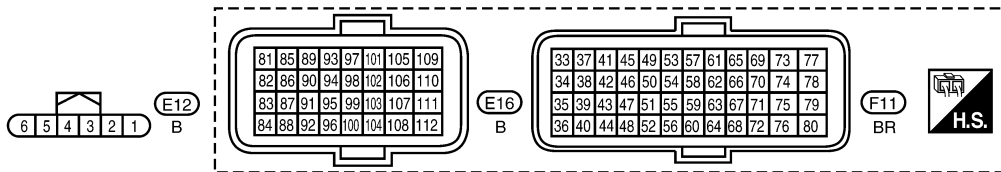
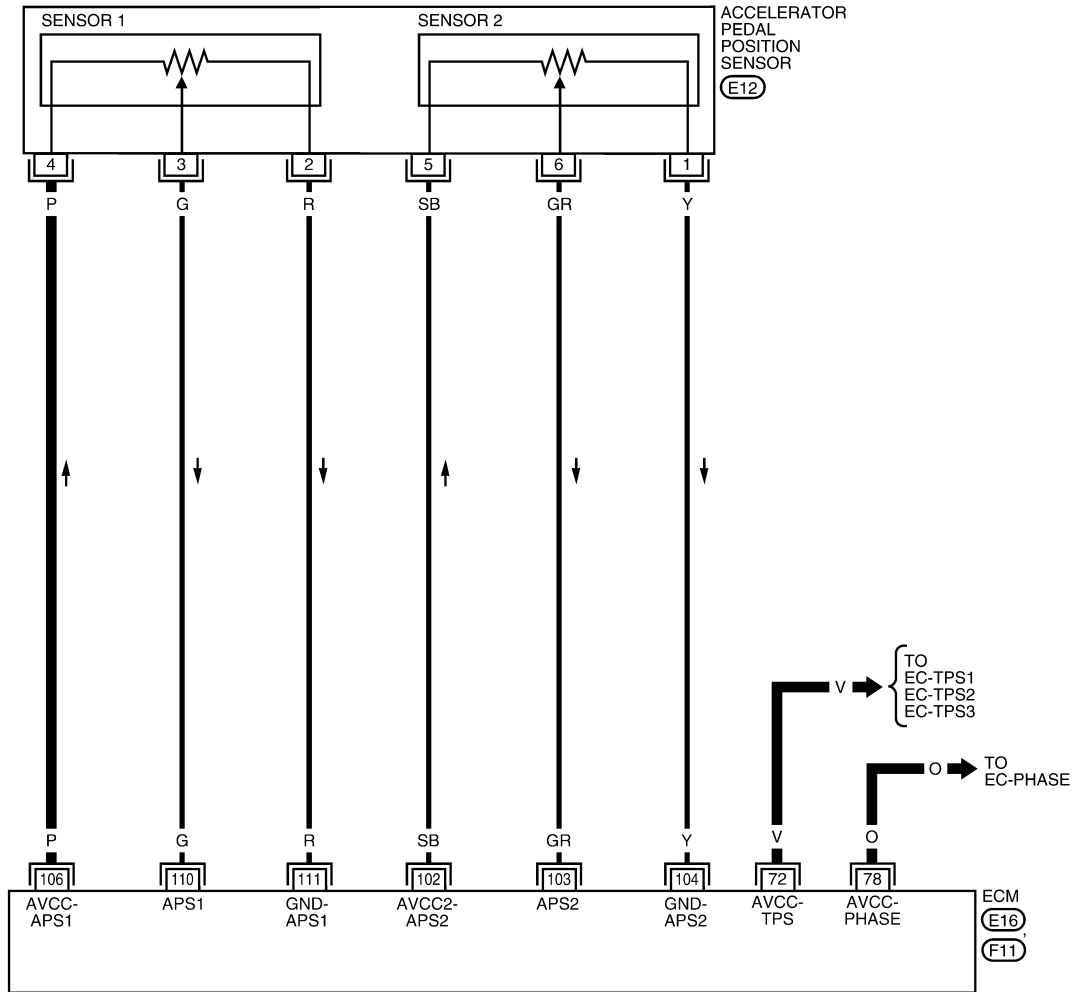
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## Wiring Diagram

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### EC-SEN/PW-01

— : DETECTABLE LINE FOR DTC  
 — : NON-DETECTABLE LINE FOR DTC



BBWA2649E

## Diagnosis Procedure

INFOID:000000004780244

### 1. CHECK GROUND CONNECTION

1. Turn ignition switch OFF.
2. Check ground connections E15, E24. Refer to [EC-125, "Ground Inspection"](#).

Is the inspection result normal?