

## Diagnostic Procedure with Diagnostic Trouble Code (DTC)

ENGINE (DIAGNOSTIC)

### AQ:DTC P0335 CRANKSHAFT POSITION SENSOR "A" CIRCUIT

#### DTC DETECTING CONDITION:

Immediately at fault recognition

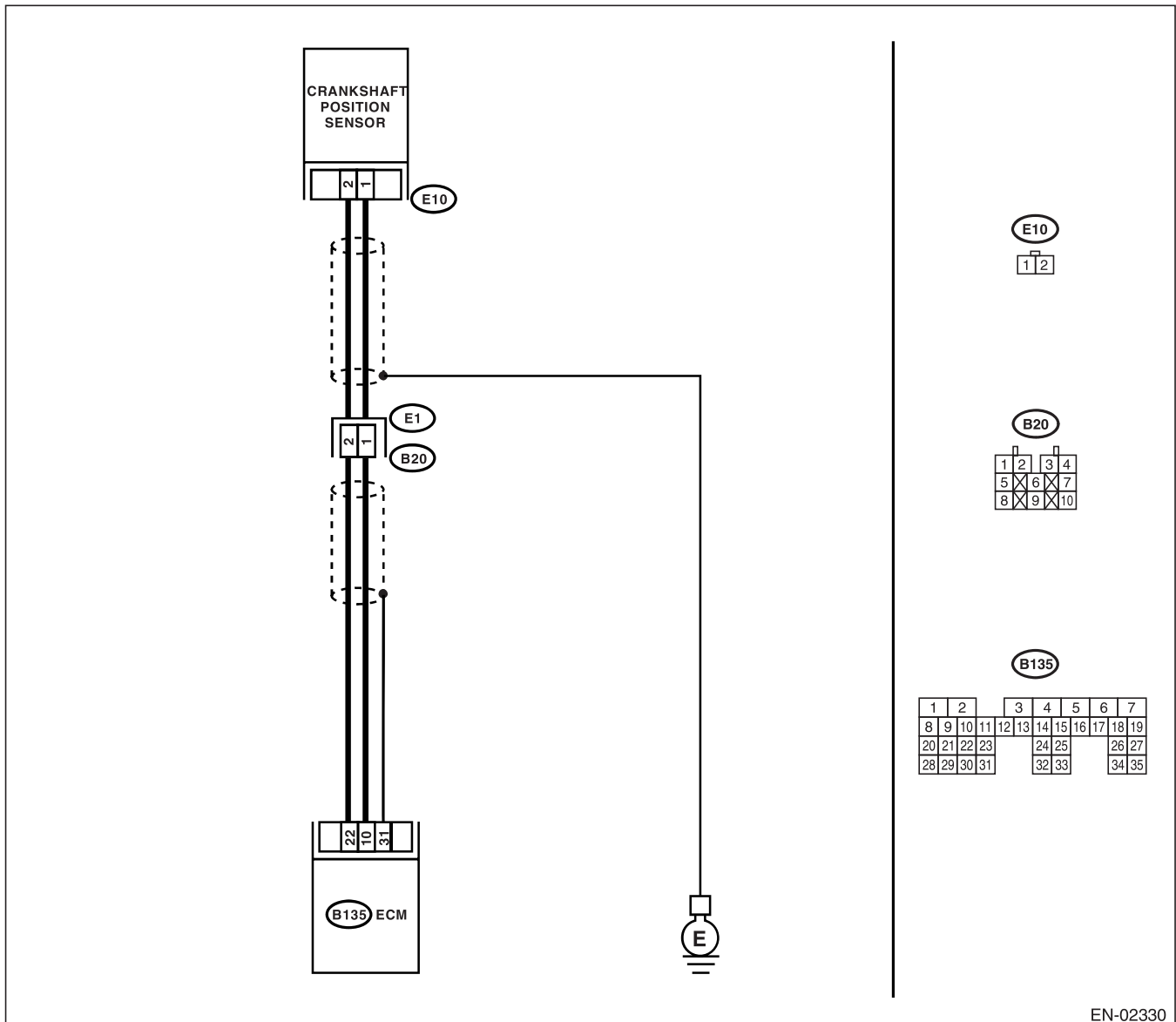
#### TROUBLE SYMPTOM:

- Engine stalls.
- Failure of engine to start

#### CAUTION:

After repair or replacement of faulty parts, conduct Clear Memory Mode <Ref. to EN(H4DOTC)-47, OPERATION, Clear Memory Mode.> and Inspection Mode <Ref. to EN(H4DOTC)-40, Inspection Mode.>.

#### WIRING DIAGRAM:



EN-02330

## Diagnostic Procedure with Diagnostic Trouble Code (DTC)

### ENGINE (DIAGNOSTIC)

Step	Check	Yes	No
<b>1</b> <b>CHECK HARNESS BETWEEN CRANKSHAFT POSITION SENSOR AND ECM CONNECTOR.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the crankshaft position sensor. 3) Measure the resistance of harness between crankshaft position sensor connector and engine ground. <b>Connector &amp; terminal</b> <b>(E10) No. 1 — Engine ground:</b>	Is the resistance more than 100 kΩ?	Repair the harness and connector.  NOTE: In this case repair the following: <ul style="list-style-type: none"> <li>• Open circuit in harness between crankshaft position sensor and ECM connector</li> <li>• Poor contact in ECM connector.</li> <li>• Poor contact in coupling connector</li> </ul>	Go to step 2.
<b>2</b> <b>CHECK HARNESS BETWEEN CRANKSHAFT POSITION SENSOR AND ECM CONNECTOR.</b> Measure the resistance of harness between crankshaft position sensor connector and engine ground. <b>Connector &amp; terminal</b> <b>(E10) No. 1 — Engine ground:</b>	Is the resistance more than 1 MΩ?	Go to step 3.	Repair ground short circuit in harness between crankshaft position sensor and ECM connector.  NOTE: The harness between both connectors are shielded. Repair ground short circuit in harness together with shield.
<b>3</b> <b>CHECK HARNESS BETWEEN CRANKSHAFT POSITION SENSOR AND ECM CONNECTOR.</b> Measure the resistance of harness between crankshaft position sensor connector and engine ground. <b>Connector &amp; terminal</b> <b>(E10) No. 2 — Engine ground:</b>	Is the resistance less than 5 Ω?	Go to step 4.	Repair the harness and connector.  NOTE: In this case repair the following: <ul style="list-style-type: none"> <li>• Open circuit in harness between crankshaft position sensor and ECM connector</li> <li>• Poor contact in ECM connector.</li> <li>• Poor contact in coupling connector</li> </ul>
<b>4</b> <b>CHECK CONDITION OF CRANKSHAFT POSITION SENSOR.</b>	Is the crankshaft position sensor installation bolt tightened securely?	Go to step 5.	Tighten the crankshaft position sensor installation bolt securely.
<b>5</b> <b>CHECK CRANKSHAFT POSITION SENSOR.</b> 1) Remove the crankshaft position sensor. 2) Measure the resistance between connector terminals of crankshaft position sensor. <b>Terminals</b> <b>No. 1 — No. 2:</b>	Is the resistance 1 — 4 kΩ?	Repair poor contact in crankshaft position sensor connector.	Replace the crankshaft position sensor. <Ref. to FU(H4DOTC)-30, Crankshaft Position Sensor.>

## Diagnostic Procedure with Diagnostic Trouble Code (DTC)

ENGINE (DIAGNOSTIC)

### AR:DTC P0336 CRANKSHAFT POSITION SENSOR "A" CIRCUIT RANGE/PERFORMANCE

#### DTC DETECTING CONDITION:

Two consecutive driving cycles with fault

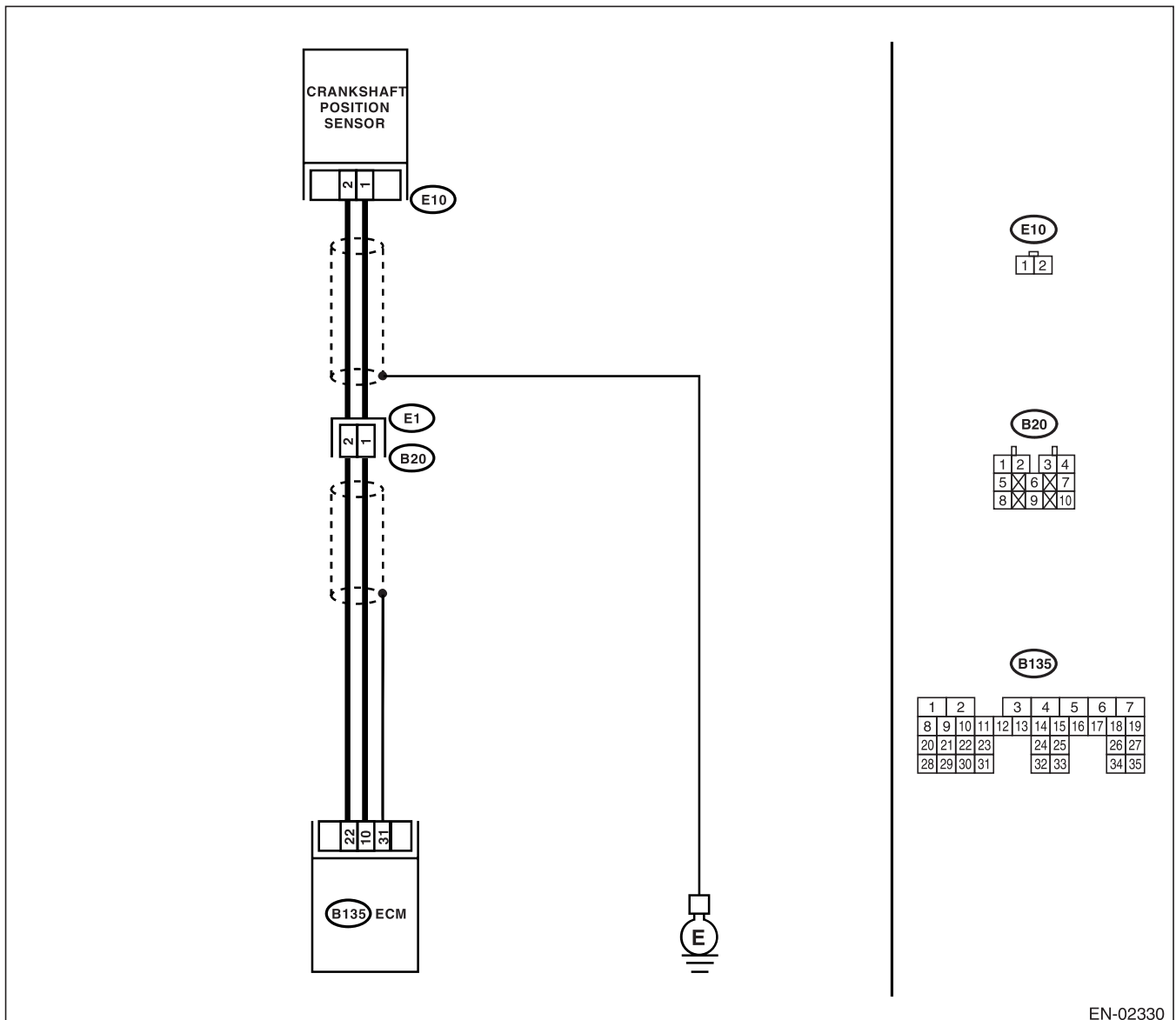
#### TROUBLE SYMPTOM:

- Engine stalls.
- Failure of engine to start

#### CAUTION:

After repair or replacement of faulty parts, conduct Clear Memory Mode <Ref. to EN(H4DOTC)-47, OPERATION, Clear Memory Mode.> and Inspection Mode <Ref. to EN(H4DOTC)-40, Inspection Mode.>.

#### WIRING DIAGRAM:



EN-02330

## Diagnostic Procedure with Diagnostic Trouble Code (DTC)

### ENGINE (DIAGNOSTIC)

Step	Check	Yes	No
<b>1</b> <b>CHECK ANY OTHER DTC ON DISPLAY.</b>	Is any other DTC displayed?	Inspect the relevant DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to EN(H4DOTC)-74, List of Diagnostic Trouble Code (DTC).>	Go to step <b>2</b> .
<b>2</b> <b>CHECK CONDITION OF CRANKSHAFT POSITION SENSOR.</b> Turn the ignition switch to OFF.	Is the crankshaft position sensor installation bolt tightened securely?	Go to step <b>3</b> .	Tighten the crankshaft position sensor installation bolt securely.
<b>3</b> <b>CHECK CRANK SPROCKET.</b> Remove the front belt cover.	Are crank sprocket teeth cracked or damaged?	Replace the crank sprocket. <Ref. to ME(H4DOTC)-67, Crank Sprocket.>	Go to step <b>4</b> .
<b>4</b> <b>CHECK INSTALLATION CONDITION OF TIMING BELT.</b> Turn the crankshaft, and align alignment mark on crank sprocket with alignment mark on cylinder block.	Is the timing belt dislocated from its proper position?	Repair installation condition of timing belt. <Ref. to ME(H4DOTC)-58, Timing Belt Assembly.>	Replace the crankshaft position sensor. <Ref. to FU(H4DOTC)-30, Crankshaft Position Sensor.>