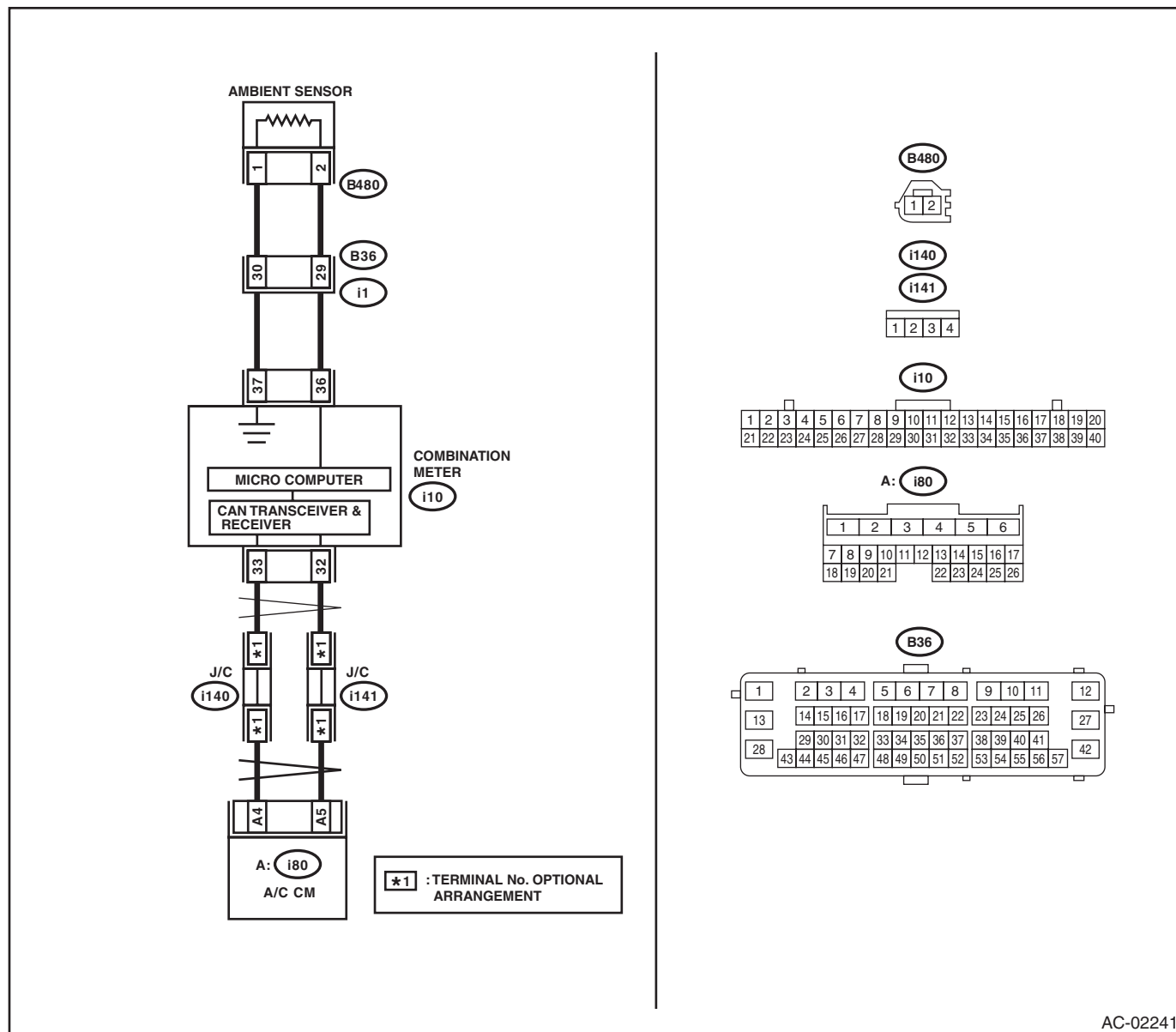


## 7. Diagnostic Procedure for Sensors

## A: AMBIENT SENSOR

### WIRING DIAGRAM:



Step		Check	Yes	No
1	<b>CHECK FOR POOR CONTACT.</b> Check poor contact of A/C CM connector.	Is there poor contact of connector?	Repair the connector.	Go to step 2.
2	<b>CHECK DTC.</b> 1) Connect the disconnected connectors. 2) Read the DTC of the CAN system using the Subaru Select Monitor.	Is DTC for CAN system displayed?	Perform the diagnosis according to the DTC. <Ref. to LAN(diag)-32, List of Diagnostic Trouble Code (DTC).>	Go to step 3.

# Diagnostic Procedure for Sensors

HVAC SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<b>3 CHECK CAN COMMUNICATION CIRCUIT.</b> Check the CAN communication circuit. <Ref. to LAN(diag)-12, CAN Communication Circuit Check.>	Is the CAN communication circuit normal?	Go to step 4.	Repair the CAN communication circuit. <Ref. to LAN(diag)-4, LAN SYSTEM, CAUTION, General Description.>
<b>4 CHECK AMBIENT SENSOR.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the connector from ambient sensor. 3) Measure the resistance between terminals of ambient sensor. <b>Terminals</b> <b>No. 1 — No. 2:</b>	Is the resistance approximately 2.2 k $\Omega$ at 25°C (77°F)?	Go to step 5.	Replace the ambient sensor. <Ref. to AC-70, REMOVAL, Ambient Sensor (Auto A/C Model).>
<b>5 CHECK INPUT SIGNAL FOR AMBIENT SENSOR.</b> 1) Turn the ignition to ON. 2) Measure the voltage between connector (B480) terminals. <b>Connector &amp; terminal</b> <b>(B480) No. 1 (+) — No. 2 (-):</b>	Is the voltage approx. 5 V?	Go to step 7.	Go to step 6.
<b>6 CHECK COMBINATION METER OUTPUT SIGNAL.</b> 1) Turn the ignition switch to OFF. 2) Pull out the combination meter. 3) Disconnect the connector from ambient sensor. 4) Turn the ignition switch to ON. 5) Measure the voltage between the combination meter connector terminals. <b>Connector &amp; terminal</b> <b>(i10) No. 36 (+) — No. 37 (-):</b>	Is the voltage approx. 5 V?	Go to step 7.	Replace the combination meter. <Ref. to IDI-20, REMOVAL, Combination Meter.>
<b>7 CHECK HARNESS CONNECTOR BETWEEN COMBINATION METER AND AMBIENT SENSOR.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the combination meter. 3) Measure the resistance of harness between combination meter and ambient sensor. <b>Connector &amp; terminal</b> <b>(B480) No. 2 — (i10) No. 36:</b> <b>(B480) No. 1 — (i10) No. 37:</b>	Is the resistance less than 1 $\Omega$ ?	System is normal.	Repair the open circuit of the harness between the combination meter and ambient sensor.