

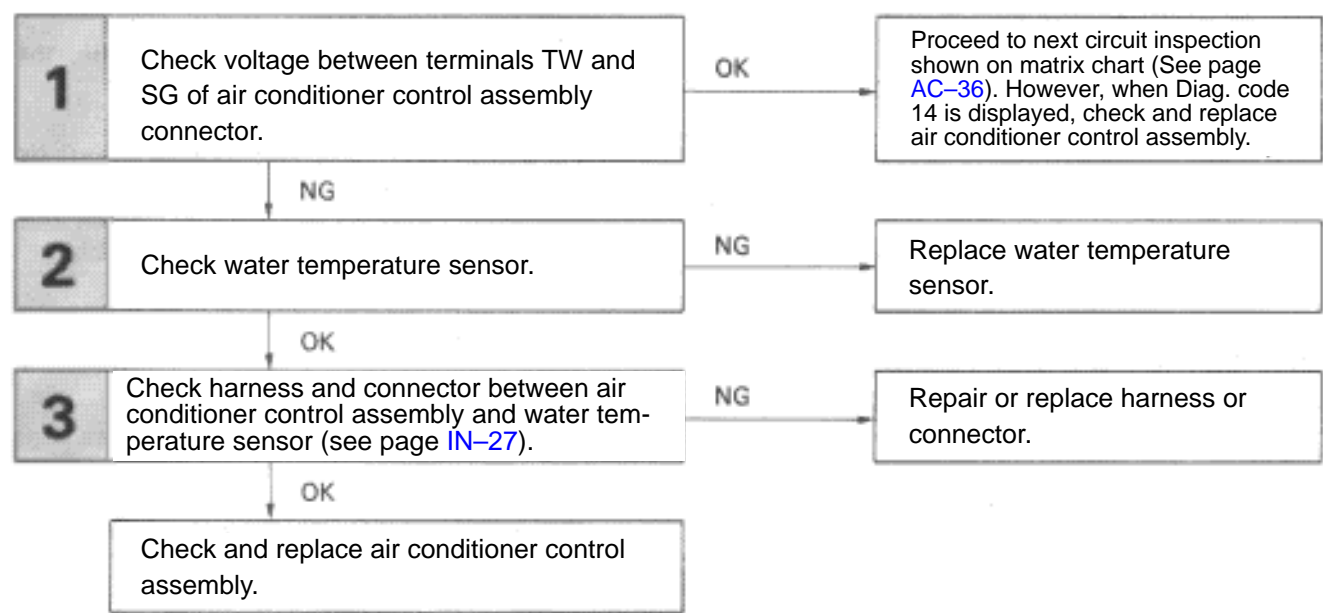
Diag. Code	14	Water Temperature Sensor Circuit
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CIRCUIT DESCRIPTION

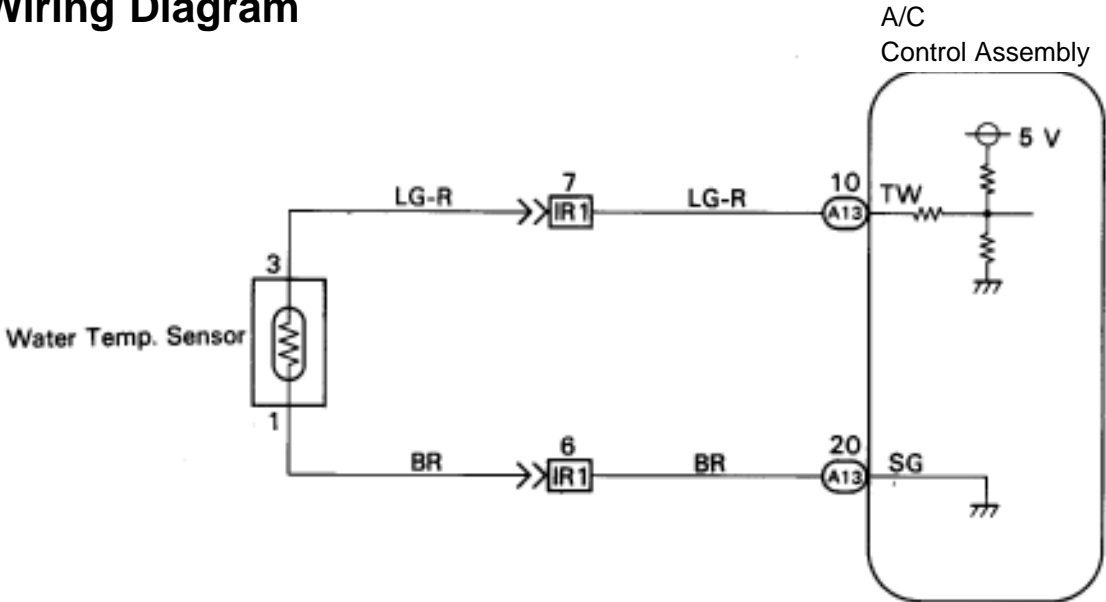
This sensor detects the coolant temperature and sends the appropriate signals to the air conditioner control assembly. These signals are used for warm up control when the engine is cold.

Code No.	Diag. Code Detecting Condition	Trouble area
14	Open or short in evaporator temperature sensor circuit.	<ul style="list-style-type: none"><li>• Water temperature sensor.</li><li>• Harness or connector between water temperature sensor and A/C control assembly.</li><li>• A/C control assembly.</li></ul>

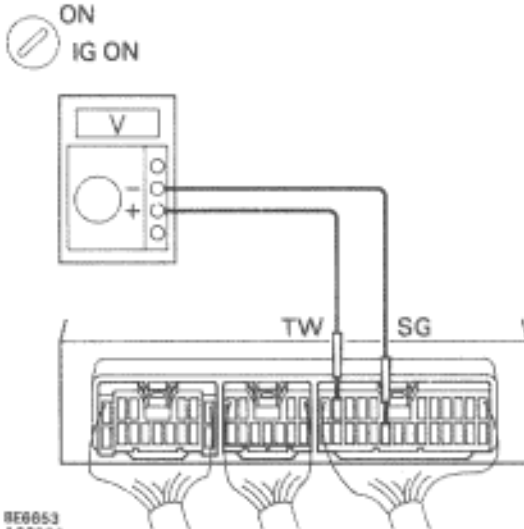
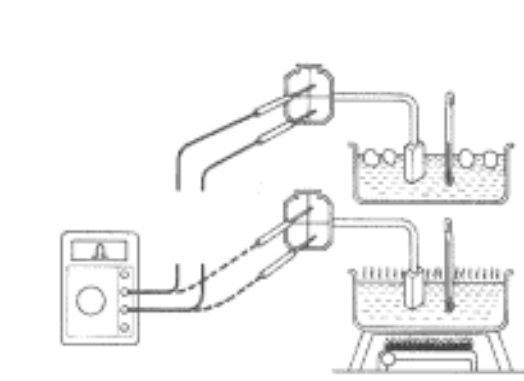
DIAGNOSTIC CHART



Wiring Diagram



## INSPECTION PROCEDURE

<b>1</b>	<b>Check voltage between terminals TW and SG of air conditioner control assembly connector.</b>
 <p>ON IG ON</p> <p>8E6653 AC2986</p> <p>NG</p>	<p><b>P</b> 1. Remove console upper panel (See page <a href="#">BO-111</a>)</p> <p>2. Remove A/C control assembly with connectors still connected.</p> <p>3. Turn ignition switch ON.</p> <p><b>C</b> Measure voltage between terminals TW and SG of air conditioner control assembly connector at each temperature.</p> <p><b>OK</b> <b>Voltage:</b>      <b>Voltage</b></p> <p>                         at 0°C (32°F) : 2.8 ~ 3.2 V</p> <p>                         at 40°C (104°F): 1.8 ~ 2.2 V</p> <p>                         at 70°C (158°F): 0.9 ~ 1.3 V</p> <p>In addition, as the temperature increases, the voltage decreases gradually.</p> <p><b>OK</b> Proceed to next circuit inspection shown on matrix chart (see page <a href="#">AC-36</a>). However, when Diag. code 14 is displayed, check and repair air conditioner control assembly.</p>
<b>2</b>	<b>Check water temperature sensor.</b>
 <p>AC2014</p> <p>OK</p>	<p><b>P</b> 1. Remove heater unit.</p> <p>2. Remove water temperature sensor.</p> <p><b>C</b> Measure voltage between terminals 1 and 3 of water temperature sensor connector at each temperature.</p> <p><b>OK</b> <b>Voltage:</b>      <b>Resistance</b></p> <p>                         at 0°C (32°F) : 16.5 ~ 17.5 kΩ</p> <p>                         at 40°C (104°F): 2.4 ~ 2.8 VΩ</p> <p>                         at 70°C (158°F): 0.7 ~ 1.0 VΩ</p> <p>In addition, as the temperature increases, the voltage decreases gradually.</p> <p><b>NG</b> Replace water temperature sensor.</p>
<b>3</b>	<b>Check for open and short in harness and connector between air conditioner control assembly and water temperature sensor (see page <a href="#">IN-27</a>).</b>
<p>OK</p>	<p>NG Repair or replace harness or connector.</p>

Check and replace air conditioner control assembly.