How it Works

The coolant level sensor uses a float assembly inside the coolant tank to detect the coolant level. As the float raises or lowers, it turns a potentiometer. The control reads the voltage and displays the coolant level on the MEMORY or CURRENT COMMANDS pages.

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<td>Coolant Level Sensor</td>
<td>The sensor is damaged, or the float cannot move.</td>
<td>Check all of the wires and clear chips blocking the float.</td>
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<td>Cable</td>
<td>The cable is unplugged or damaged.</td>
<td>Make sure that the cable is securely connected and is not damaged.</td>
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Symptom: The coolant level sensor displays an incorrect coolant level.

Possible Cause: The sensor is damaged, or the float cannot move.

Corrective Action:

If your coolant level sensor does not display the correct level on the screen, look in the coolant tank to make sure a chip build-up does not block the float from moving freely.

Make sure the coolant level sensor operates correctly:

- Press [MEMORY]. The upper-right corner of the screen will show the coolant level.
- Remove the level sensor from the tank and move the float to the maximum travel at both ends. The coolant level indicator on the screen should move at a slow pace. It takes approximately (1) minute to move from empty [2] to full [1] on the screen, but it starts to move immediately.
- If the coolant level sensor does not operate correctly, unplug the coolant level sensor from the machine. Remove the cover to access the wires of the variable resistor.
- Measure the resistance across the white and black wires [3/4] when the float is up [5] and when it is down [6]. The resistance should be approximately 371 Ohms when the float is up and 286 Ohms when it is down.
- Make sure that the coolant level sensor RJ12 cable [2] or M12 cable [1] is securely connected, and is not damaged.
- If the coolant level sensor continues to read incorrectly, and you have completed the troubleshooting instructions, replace the sensor.