

PARTS & SERVICE NEWS

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(C)

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SUBJECT: REPLACEMENT OF FAULTY WATER TEMPERATURE SENSOR

PURPOSE: Describe the replacement procedure for water temperature sensor, part number 1310 167 H1.

APPLICATION: WA600-1LE Wheel Loader Serial Number A51001 and up
WA600-3L Wheel Loader Serial Number A52001 thru A52044

FAILURE CODE: GDE25C

DESCRIPTION: In some cases the factory supplied water temperature sensor may begin to lose it's signal integrity, this may cause a false overheating indication on the monitor panel.

Introduction:

If the monitor panel indicates that the machine is overheating, troubleshoot using the Shop Manual. If troubleshooting reveals no possible cause, use this procedure to replace the water temperature sensor.

Required Parts:

| Index | Part Number | Description | Qty. | Remarks |
|-------|--------------|--------------------------|------|--|
| 1 | 426-01-A2310 | Adapter | 1 | |
| 2 | 1240 173 H1 | O-ring | 1 | |
| 3 | 7861-92-3320 | Water Temperature Sensor | 1 | |
| 4 | 08055-00292 | Connector Assembly | 1 | Contains: 1 body, 1 holder 2 terminals, 2 seals |

Procedure:

1. As shown in Figure 1, locate the water temperature sensor.



WARNING! Ensure the engine is cool, hot coolant may cause severe injury if pressurized cap is released.

2. Drain coolant from the radiator and engine until the level is below the temperature sensor.
3. Disconnect the wiring harness from the sensor.
4. Remove the sensor from the engine block.
5. As shown in figure 2, install adaptor (1) and o-ring (2) into port where the sensor was removed. Tighten adaptor to 127.4 to 176.4 Nm (94.0 to 130.2 ft. lbs.).
6. Apply LT-2 (loctite grade 2) to new sensor (3) threads, then install in adaptor. Tighten sensor to 35.1 to 42.9 Nm (25.3 to 31.1 ft. lbs.).
7. Referencing figure 3, replace engine wiring harness connector.
8. Connect the rebuilt wiring harness to the new sensor's connector.
9. Refill the radiator with coolant until operating levels are reached.

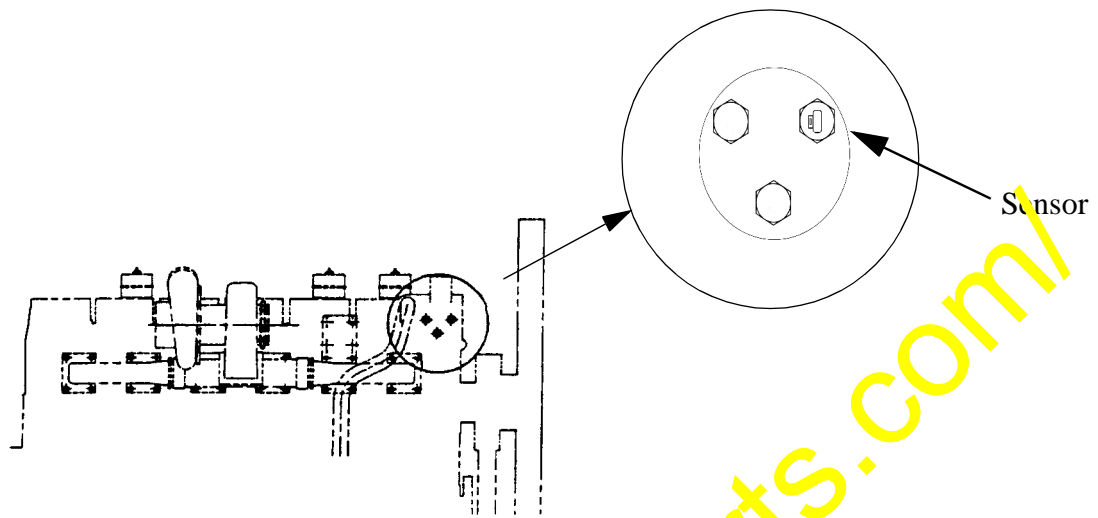


Figure 1 Water Temperature Sensor Location

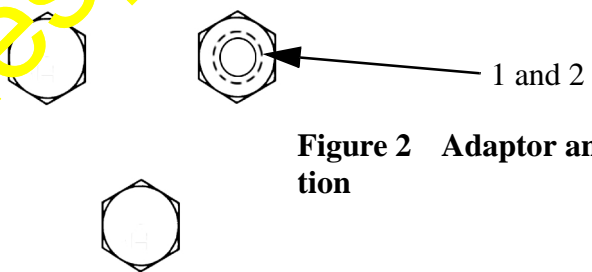


Figure 2 Adaptor and O-ring Installation

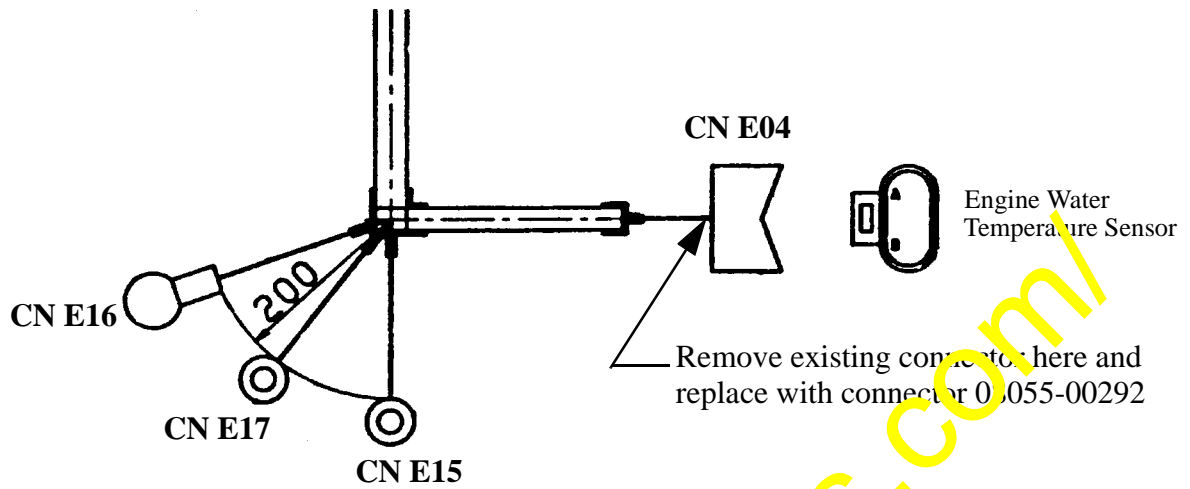


Figure 3 Engine Wire Harness Connector Replacement

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