



[Previous Screen](#)

< Product: NO EQUIPMENT SELECTED
Model: NO EQUIPMENT SELECTED
Configuration: NO EQUIPMENT SELECTED

Troubleshooting

EMCP 3

Media Number -RENR7902-01

Publication Date -01/01/2006

Date Updated -27/01/2006

i02464587

Unexpected Engine Shutdown

SMCS - 4490

System Operation Description:

While the engine is running, if engine speed suddenly becomes zero and the Auto Start/Stop function block has not initiated a shutdown, an "UNEXPECTED ENGINE SHUTDOWN" event will be activated.

The EMCP 3 performs the following using an independent engine speed sensor that is dedicated to EMCP 3 use only

- Determines the engine speed, in rpm, from the Magnetic Pickup (Engine Speed Sensor) input pins
- Detects diagnostics on the sensor
- Annunciates an engine over/under speed condition

Conditions Which Generate This Code:

While the engine is running, if engine speed suddenly becomes zero and the Auto Start/Stop function block has not initiated a shutdown, an "UNEXPECTED ENGINE SHUTDOWN" event will be activated.

Test Step 1. TALK TO THE OPERATOR

- A. Determine the conditions that caused the unexpected shutdown.

Expected Result:

A unexpected shutdown was caused by an occurrence known to the operator and the operator would like to put the genset back into service.

Results:

https://127.0.0.1/sisweb/sisweb/techdoc/techdoc_print_page.jsp?returnurl=/sisweb/sisweb/... 8/14/2007

- **OK** - The operator can determine the cause for the "UNEXPECTED ENGINE SHUTDOWN", the condition has been repaired and the operator wants to put the genset back into service.

Repair: Reset the genset. Resume normal operation and verify that the problem has been corrected.

STOP

- **NOT OK** - The "UNEXPECTED ENGINE SHUTDOWN" was not caused by a occurrence known to the operator. Proceed to Test Step 2

Test Step 2. CHECK FOR OTHER DIAGNOSTIC CODES.

- A. Check for active diagnostic codes on the engine ECM and the EMCP 3. If any codes are present, correct the diagnostic codes first.

Expected Result:

No other diagnostic codes or indicators are active.

Results:

- **OK** - No other diagnostic codes or indicators are active.

Repair: Refer to the engine Troubleshooting manual for more information on engine unexpected engine shutdowns for your particular genset.

STOP

- **NOT OK** - Another diagnostic code is active or an indicator is active.

Repair: Exit this procedure. Troubleshoot the active code or indicator. Resume normal operation and verify that the problem has been corrected.

STOP