



# SERVICE DIRECTIVE BULLETIN

SERVICE DIRECTIVE BULLETIN NO. T-052

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DATE:            November 16, 2015

1.    SUBJECT:    Electrical System – Engine Idle Stop Wiring Inspection

2.    MODEL:       480B

3.    EFFECTIVITY:    S/N 5136 through 5219

4.    BACKGROUND:

Enstrom has received a report from the field regarding incorrect wiring in the connector for the engine idle stop mechanism. An anomaly was first encountered when the helicopter battery was discovered to be fully discharged. Upon further investigation, it was discovered that a relay in the engine idle stop mechanism was being energized without actuation of the idle release button.

This Service Directive Bulletin (SDB) requires inspection of the engine idle stop connectors for correct wiring.

5.    COMPLIANCE:

At the next 50-hour or annual inspection, whichever occurs first, or if the battery seems to be discharging, inspect the engine idle stop wiring in accordance with paragraph 6.

6.    INSPECTION:

## NOTE

**Perform all maintenance in accordance with TH-28/480 Series Maintenance Manual (MM), Revision 23, or later revision.**

6.1    Access the engine idle stop wiring harness.

6.1.1    Remove the pilot seat.

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- 6.1.2 Remove the collective shroud.
- 6.1.3 Locate the engine idle stop mechanism and the J254/P254 connectors.
- 6.2 Inspect the wires on each side of the connectors for corresponding placement. Reference TH-28/480B Series Maintenance Manual, Diagram 6-31 (Revision 23, or later revision).
  - 6.2.1 Push back the sleeve to locate the wire markers affixed to each of the four wires for the J254 connection and to each of the four wires for the P254 connection.
  - 6.2.2 Check that the wire for each J254 pin corresponds to the proper P254 pin. For instance, wire 1M88A20 at P254 pin 1 should correspond with 1M88B20 at J254 pin 1, and so on.
- 6.2 If each wire is properly positioned, no further action is required.
- 6.3 If wires are not properly installed, re-wire the connector(s) in accordance with Diagram 6-31 of the maintenance manual (Revision 23, or later revision).



*Figure 1. Engine Idle Stop Release J254/P254 Connectors*

7. PARTS: N/A
8. SPECIAL TOOLS: N/A
9. MAN-HOURS: 10 minutes
10. WARRANTY: Per Enstrom Warranty Policy
11. WEIGHT CHANGE: None
12. LOG BOOK ENTRY: Record maintenance actions, as applicable.
13. REPETITIVE ACTION: None