



SERVICE LETTER

SK-SL002

Rev NC

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EFFECTIVE DATE: 05/01/2020

SUBJECT: *INSPECTION & REPLACEMENT OF IGNITION COIL 90° CONNECTORS.*

MODELS AFFECTED: *CCX-2000-0001 AND ON, CCK-2000-0001 AND ON*

COMPLIANCE TIME: *NO REQUIRED COMPLIANCE TIME;
RECOMMEND WITHIN NEXT 25 HOURS OF OPERATION.*

PURPOSE: *Provides instructions to inspect ignition coil wire connectors and replace connectors if necessary. Also to adjust harness length to alleviate future issues.*

PARTS LIST:

| <u>PART</u> | <u>DESCRIPTION</u> | <u>QTY</u> |
|-------------|---|------------|
| VP6002-023 | Disconnect, Female 16 to 14G .250 Tab 90° | 4 |
| VP6002-024 | Disconnect, Female 12 to 10G .250 Tab 90° | 4 |

INSTRUCTIONS:

1. Turn off fuel selector
2. Ensure ignition key switch is OFF position.
3. Pull START circuit breaker
4. Pull IGN L and IGN R circuit breakers on front of seat base.
5. Remove engine cowl per Aircraft Maintenance Manual

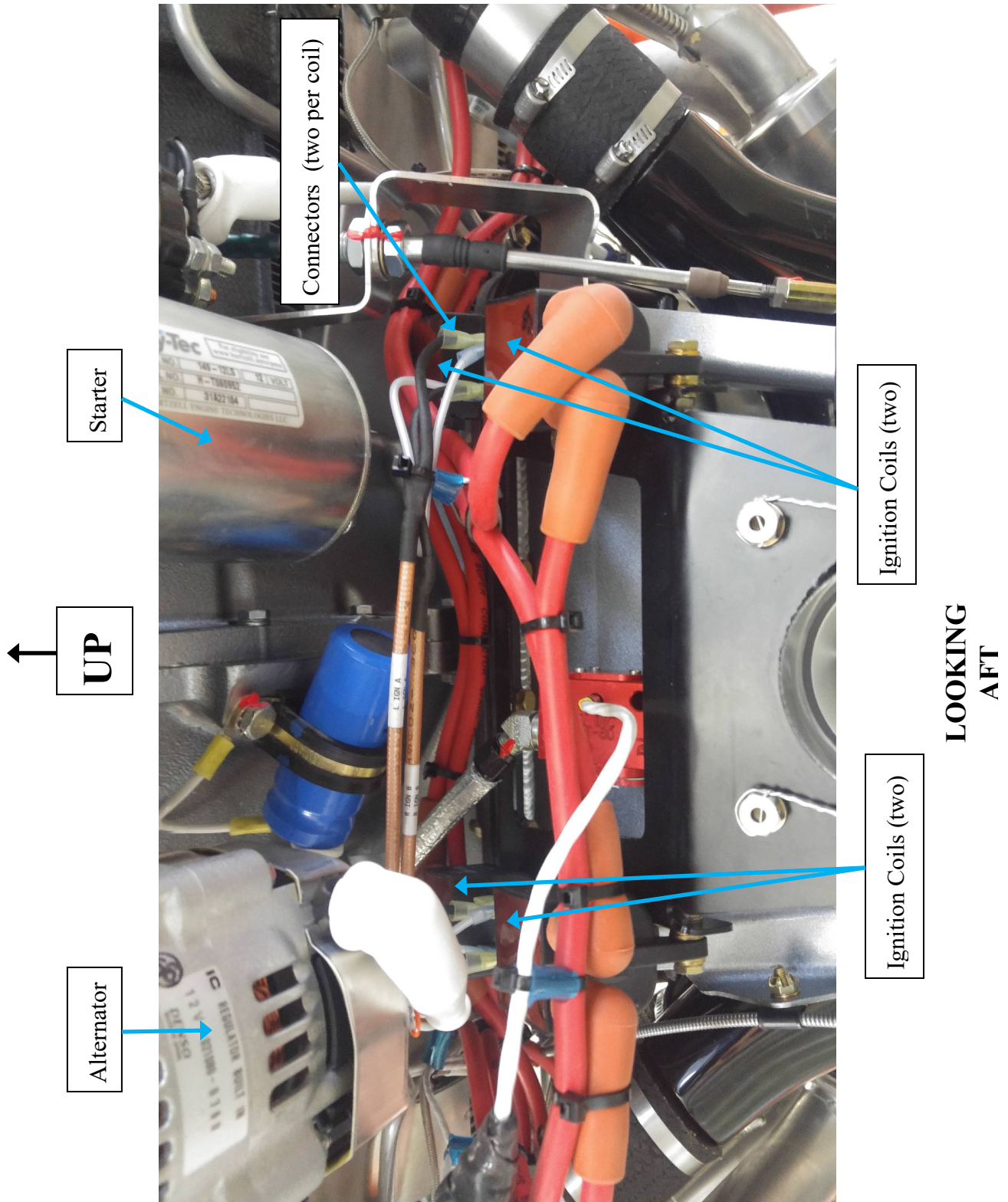


FIGURE 1: Engine Ignition Coils Location and Identification.

6. Inspect connections to ignition coils to ensure:
 - a. Wire is not taut
 - b. Appropriate bend in wire, up to connector
 - c. Connector does not easily slip off coil terminal

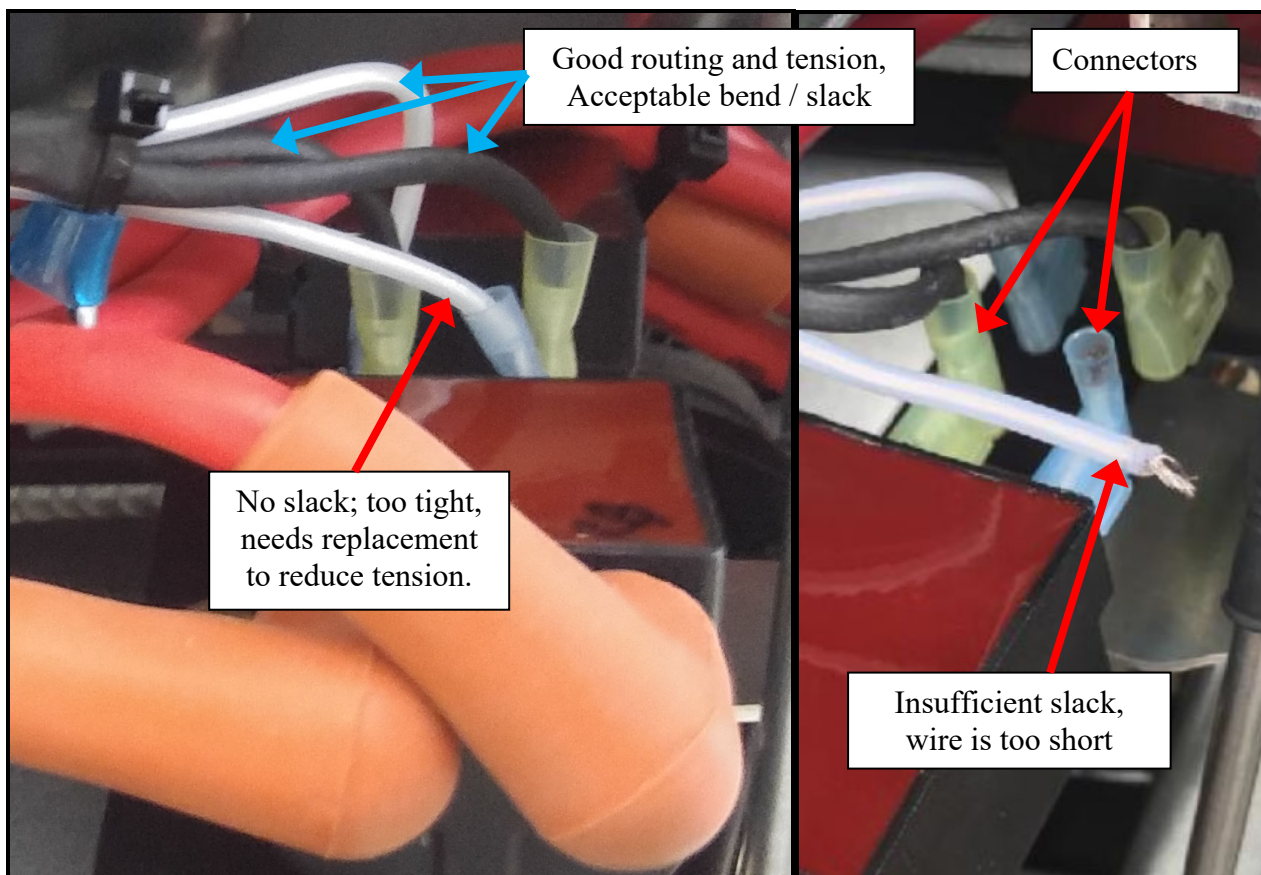


FIGURE 2: Example of insufficient slack.

7. Correct any issues found:
 - a. If wire is too taut, reroute and secure wire such that there is slack at connector
 - i. Ensure wire cannot chafe against anything along its length
 - b. If connector slides off easily:
 - i. Using thin needle-nose pliers, crimp inside of the terminal so it seats tightly on the coil blade. If the connector remains loose after crimping, crimp a new connector. (The yellow connectors for the braided shield wires are covered with black heat shrink, the blue connectors for the center conductor wires have clear insulation)

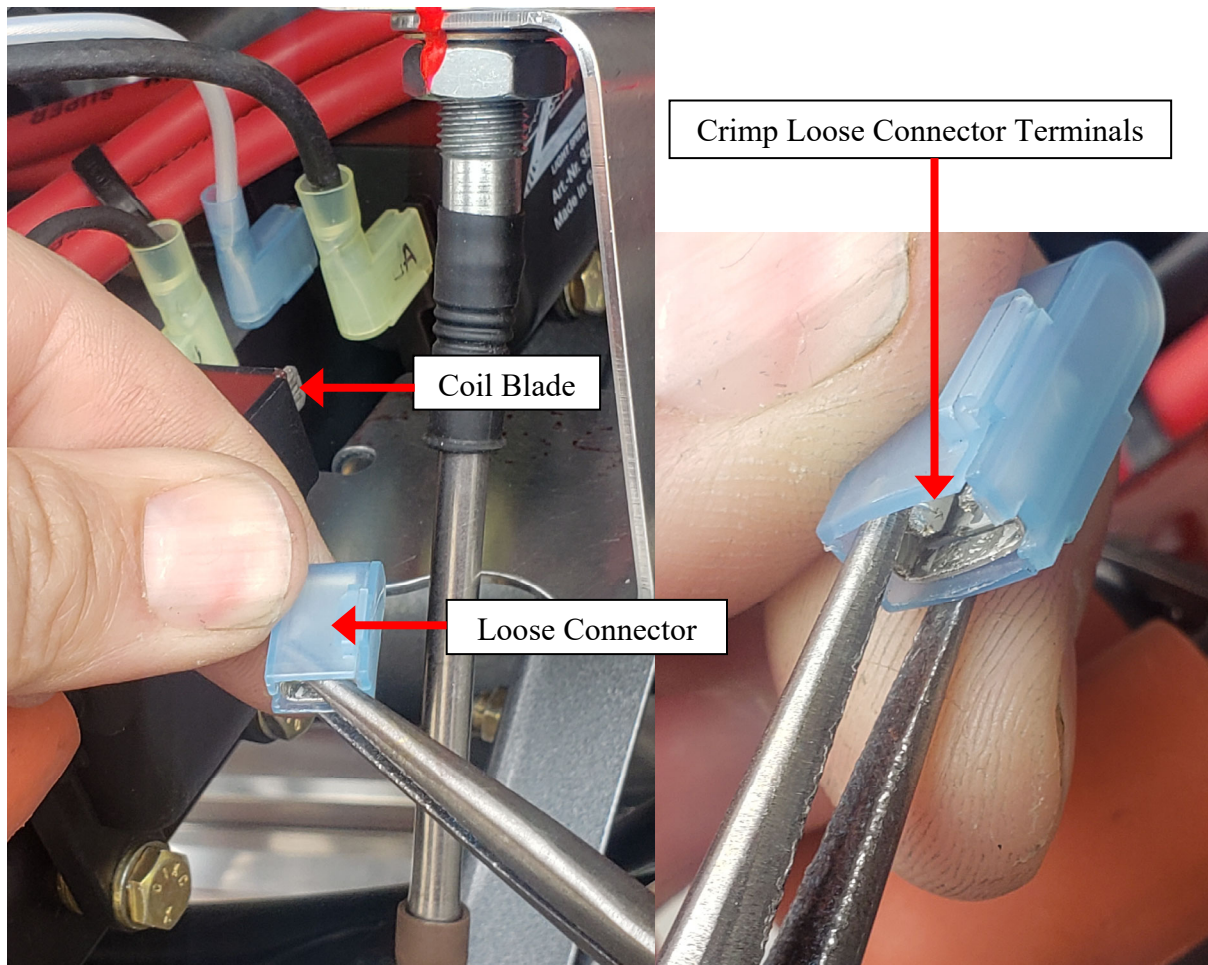


FIGURE 3: Loose Connector Terminals

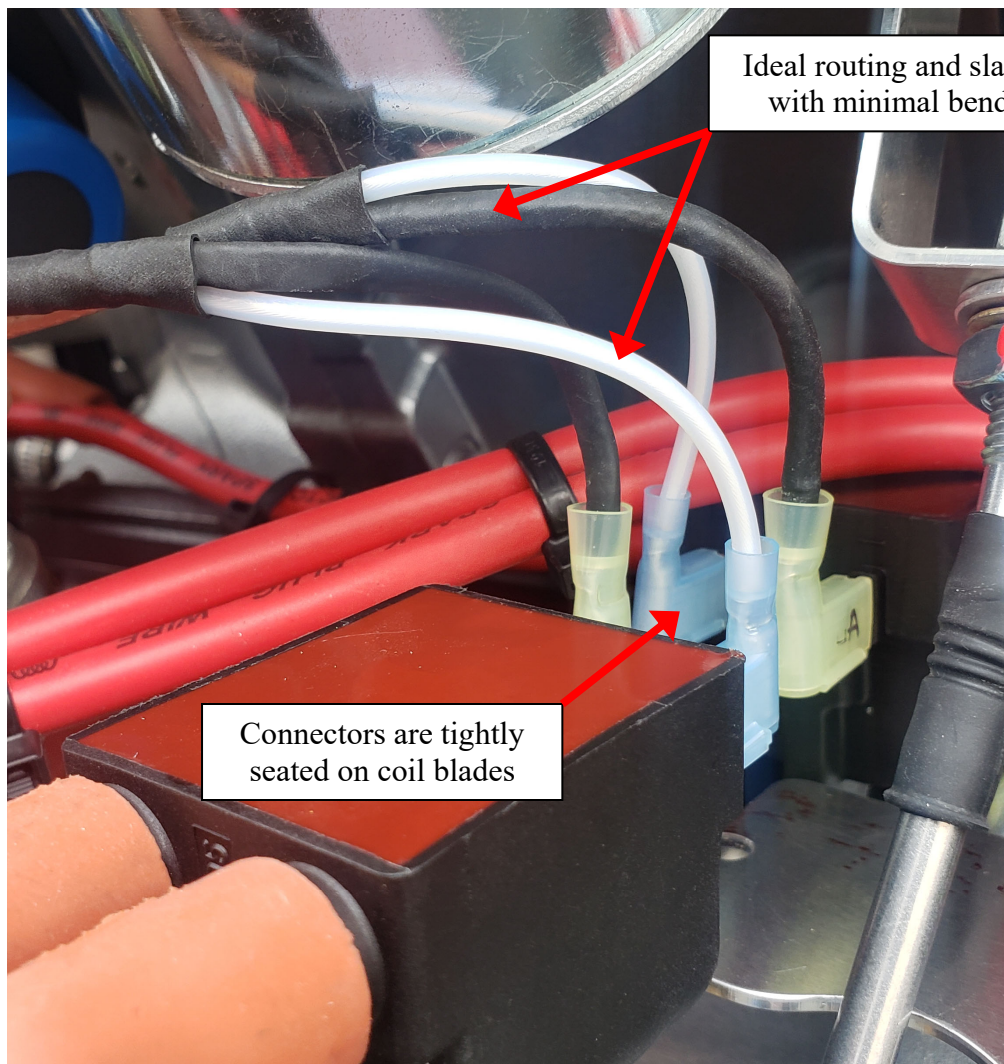


FIGURE 4: Example of sufficient slack.

8. Reinstall engine cowling
9. Perform ground run and confirm proper operation per Airplane Flight Manual: Before Takeoff Electronic Ignition check.
10. Make appropriate logbook entry, recording inspection and parts replacement per this Service Letter.
11. Reference Aircraft Maintenance Manual for Continued Airworthiness Instructions.