



SERVICE BULLETIN

SB00003A

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EFFECTIVE DATE: This SERVICE BULLETIN is effective April 18, 2007

SUBJECT: STARTER CIRCUIT: ISOLATOR SOLENOID

MODELS AFFECTED: CC11-100 S/N: 00001 through S/N00040

COMPLIANCE TIME: PRIOR TO NEXT FLIGHT

PURPOSE: ELIMINATE POSSIBILITY OF HUNG STARTER.
ELIMINATE POSSIBILITY OF FUSED STARTER SWITCH CONTACTS.

PARTS LIST:

<u>PART</u>	<u>DESCRIPTION</u>	<u>QTY</u>
SP55050-001	SOLENOID	1
SP75101-001	SOLENOID DIODE ASSEMBLY	1
SP75102-001	JUMPER, B&C STARTER	1
SC76102-P04B04W	WIRE ASSEMBLY (Solenoid to Starter)	1
SC76102-P08A18BL	WIRE ASSEMBLY (Coil to Case Ground)	1
VP6001-025	TERMINAL RING 16-14G 3/8 STUD	1
VP6001-035	RING TERMINAL 22-16G #10	1
VP6001-061	TERMINAL RING 4G 3/8 STUD	1
AN4-5A	BOLT	2
AN960-416	WASHER	4
AN365-428A	NUT	2
MS25171-3S	TERMINAL COVER	2
CABLE TIES	CUSTOMER FURNISHED	AR
ADEL CLAMP	CUSTOMER FURNISHED	AR

INSTRUCTIONS:

Procedure:

1. Disconnect and secure negative battery cable. Retain hardware.
2. Remove upper and lower engine cowls. Retain hardware.
3. Disconnect and remove BATTERY CABLE (P04A04W) from starter post. Retain hardware.

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4. Remove 18AWG STARTER SWITCH WIRE (P05A18BL) from starter terminal.
Remove female spade terminal.
5. Pass disconnected wires through firewall grommet.
6. Mark hole locations on firewall per Figure 1. Use solenoid as a template.
7. Drill holes .250" (E) through firewall at marked locations.
8. Puncture holes through interior firewall insulation and covering to match previously drilled firewall holes.
9. Install SOLENOID (P/N SP55050-001) on interior side of firewall with one (1) AN4-5A BOLT, two (2) AN960-416 WASHERS, and one (1) AN365-428A NUT. Do not torque at this time.
10. Secure WIRE ASSEMBLY (P/N SP76102-P08A18BL) to SOLENOID base with one (1) AN4-5A bolt, two (2) AN960-416 WASHERS, and one (1) AN365-428A NUT (REF FIGURE 2).
11. Secure DIODE ASSEMBLY (P/N SP75101-001) to solenoid base with previously installed AN4-5A BOLT, AN960-416 WASHERS, AN365-428A NUT (REFERENCE STEP 9) (REF FIGURE 2).
12. Install opposite end of WIRE ASSEMBLY (P/N SP76102-P08A18BL) to solenoid coil post with supplied solenoid hardware (REF FIGURE 2).
13. Install RING TERMINAL (P/N VP6001-035) on 18AWG STARTER SWITCH WIRE (P05A18BL).
14. Route and secure STARTER SWITCH WIRE (P05A18BL) and DIODE ASSY (P/N SP75101-001) to remaining solenoid coil post with supplied solenoid hardware (REF FIGURE 2).
15. Pass one end of WIRE ASSEMBLY (P/N P04B04W) through firewall.
16. Slide TERMINAL COVERS (P/N MS25171-3S) on BATTERY CABLE (P04A04W) and WIRE ASSEMBLY (P04B04W).
17. Route and secure BATTERY CABLE (P04A04W) and WIRE ASSEMBLY (P/N P04B04W) to solenoid posts with supplied solenoid hardware.
18. Slide terminal covers over battery cable terminal and solenoid post (REF FIGURE 2).
19. Install and secure JUMPER (P/N SP75102-001) and WIRE ASSEMBLY (P/N P04B04W) to starter solenoid post with original hardware (REF FIGURE 3).
20. Secure opposite end of JUMPER (P/N SP75102-001) to starter solenoid terminal (REF FIGURE 3).
21. Secure all wires with cable ties (zip ties) or Adel clamps, as necessary.
22. Adjust and secure cabin heat control cable routing as necessary to prevent contact with solenoid terminals.
23. Reinstall and secure negative battery cable with original hardware.
24. Test starter circuit for proper operation.

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25. Reinstall upper and lower cowls with original hardware.
26. Make an entry into aircraft logbook stating SERVICE BULLETIN SB00003A has been complied with.

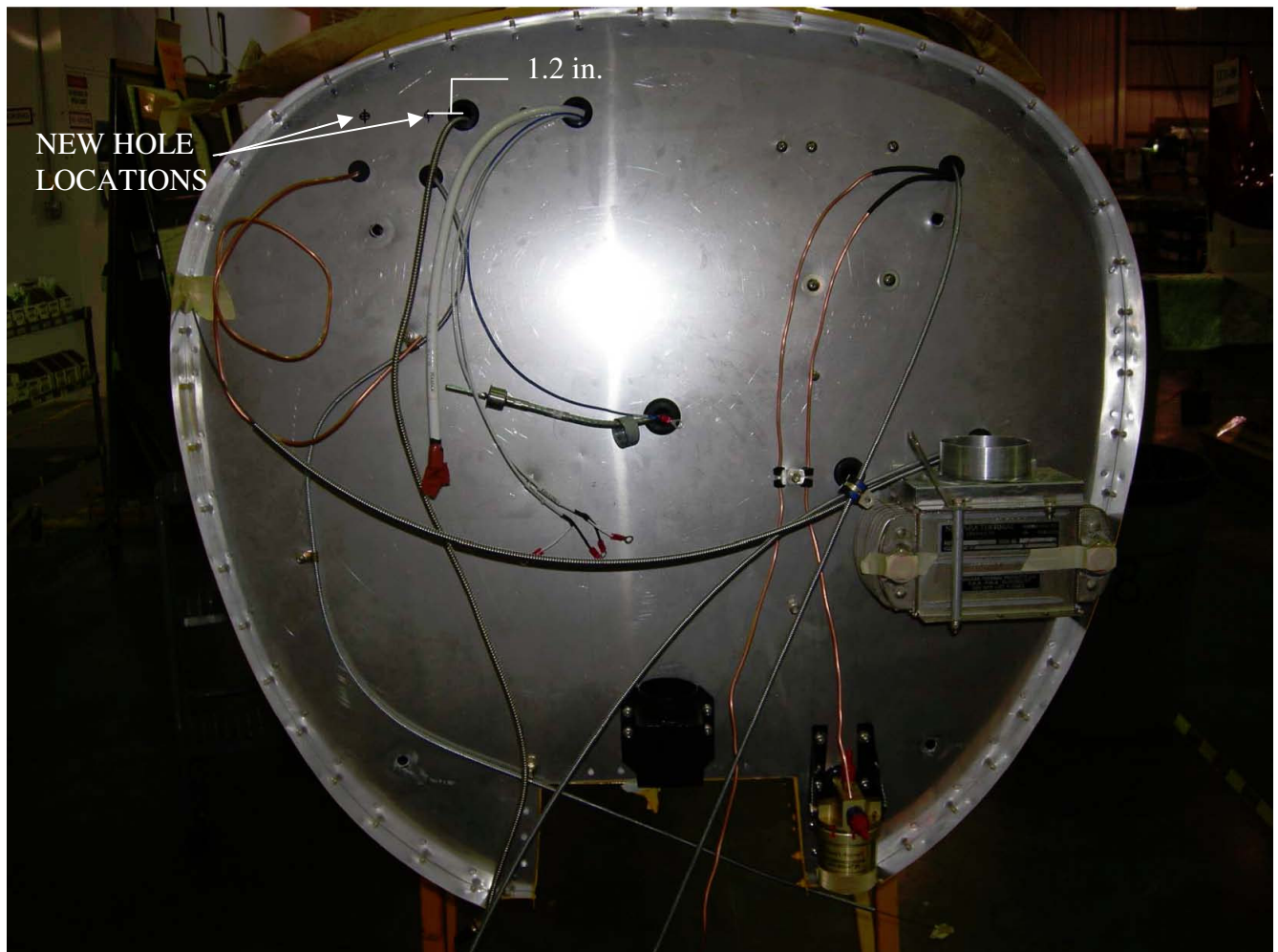
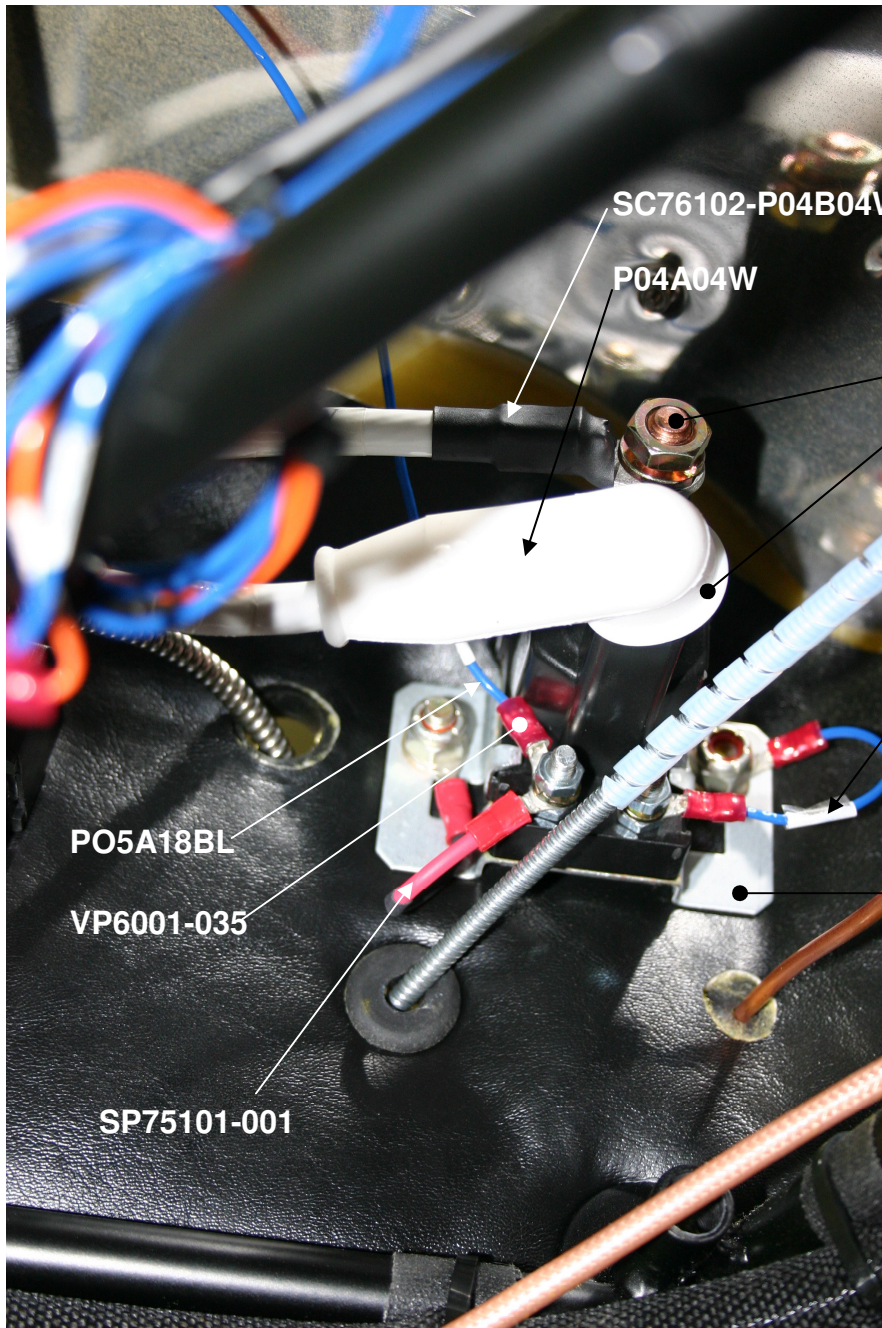


FIGURE 1 – SOLENOID HOLE LOCATION

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SC76102-P04B04V

P04A04W

MS25171-3S
OTHER COVER OMITTED FOR
CLARITY

SP76102-P08A18BL

SP55050-001

PO5A18BL

VP6001-035

SP75101-001

FIGURE 2 – SOLENOID ATTACHMENT

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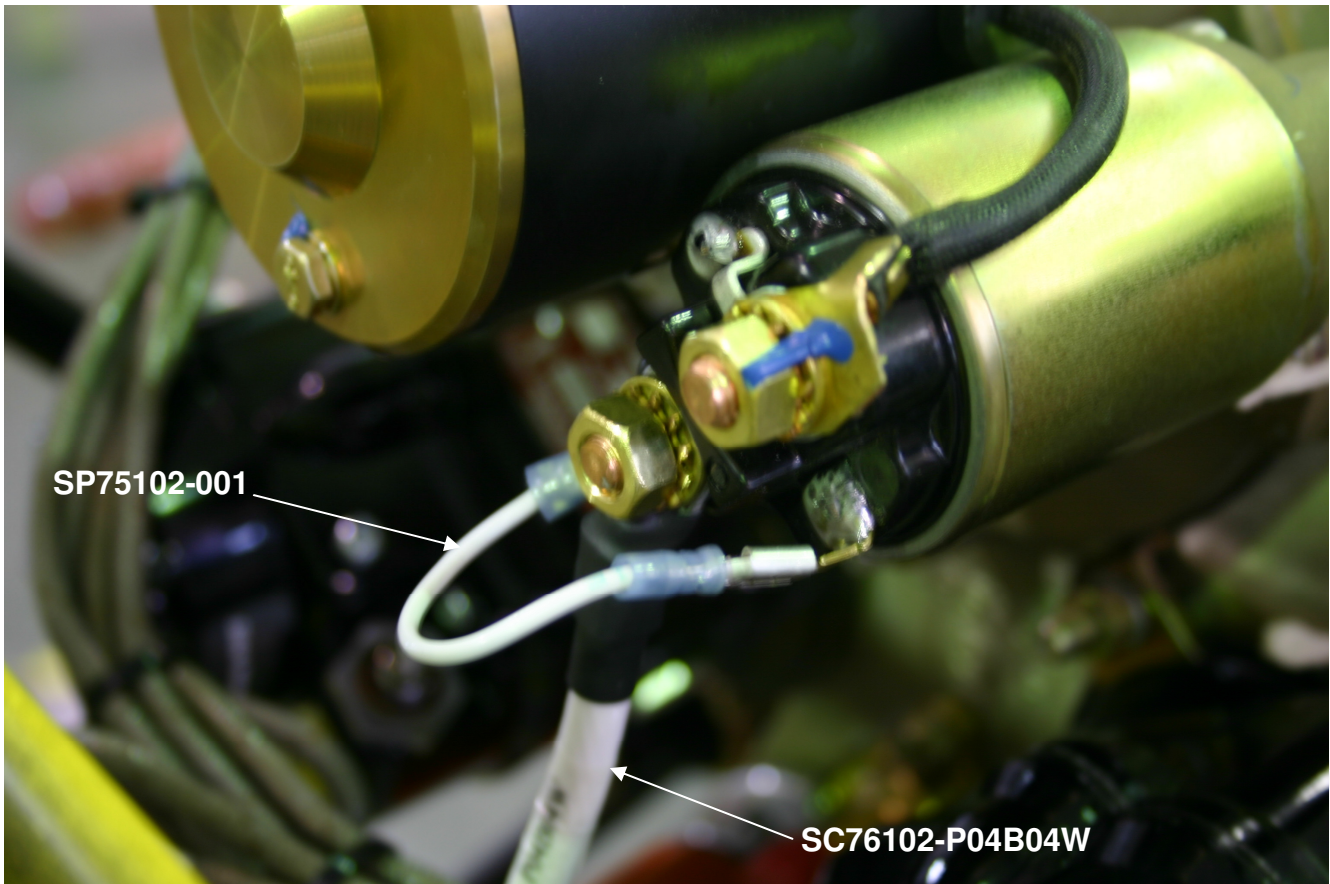


FIGURE 3 – JUMPER WIRE CONNECTION

NOTE

For aircraft equipped with Continental Starters, follow instructions below.

1. Accomplish steps 1-12.

NOTE

Retain hardware from Continental starter (step 4).
Do not remove ring terminal from starter switch wire.

2. Omit step 13
3. Accomplish step 14
4. Remove one terminal end from WIRE ASSEMBLY (P/N P04B04W)
5. Install RING TERMINAL (P/N VP6001-061) on wire assembly.
6. Remove both terminals from JUMPER (P/N SP75102-001).
7. Install RING TERMINAL (P/N VP6001-025) and RING TERMINAL (P/N VP6001-035) on jumper wire.



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ALTERNATE METHOD:

FABRICATE NEW JUMPER WIRE FROM 16 GAUGE WIRE OF EQUAL LENGTH AND
INSTALL RING TERMINALS.

8. Proceed with steps 15-26.

NOTE

Jumper wire for Continental starters is secured with original starter hardware.