REASON FOR ACTION | Prevention of strobe circuit breaker nuisance trips.
PURPOSE | Replace strobe 5 amp breaker with a 10 amp breaker.
COMPLIANCE | Recommended
MODELS AFFECTED | Serial 007, 009 to 123

1.0 OBJECTIVE
This SID provides instruction for removal and replacement of the anti-collision light power supply 5 amp circuit breaker identified as STROBE from circuit breaker panel assembly 135A-80-111 with a 10 amp circuit breaker version of the same model series.

2.0 ESTIMATED TIME TO COMPLY: 10 HOUR(s)

3.0 PARTS REQUIRED:

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<th>Part Number</th>
<th>Part Description</th>
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<tr>
<td>2TC2-10</td>
<td>CIRCUIT BREAKER – 10 Amps.</td>
<td>KLIXON</td>
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The 10 amp circuit breaker may be obtained from a KLIXON approved distributor or from Liberty Aerospace Inc. Customer Support.
4.0 CIRCUIT BREAKER REMOVAL

The following procedure performs removal of the currently installed 5 amp STROBE circuit breaker from the 135A-80-111 circuit breaker panel assembly as shown in Figure 1.

4.1 Pull circuit breaker BAT 1 (CB001) - OPEN.
4.2 Position the ALT and BAT master switches – OFF.
4.3 Position FADEC PWR A and B switches - OFF.
4.4 Locate two post lamps installed near the upper panel edge and remove hoods. Set them aside for later installation.
4.5 Referring to Figure 1, locate and remove seven (7) 8-32 machine screws securing the circuit breaker panel to the instrument console. Retain these screws for later installation.

![Figure 1 - Circuit Breaker Panel](image-url)
NOTE

The following step will remove the circuit breaker panel. Care must be taken to guide wire harnesses during the removal process in order to prevent damage.

4.6 Prepare a protective cushion surface just below and in front of the circuit breaker panel console position.

4.7 Gently pull the circuit breaker panel out of the instrument console and pivot face down in front of the console on the protective cushion surface.

4.8 Disconnect engine data processing unit ribbon cable connector PVM03A from DPU connector PVM03.

4.9 Disconnect engine data processing unit cable connector PVM01 from DPU connector PVM01.

4.10 Disconnect engine data processing unit cable connector PVM04 from DPU connector PVM04.

4.11 Remove four (4) 6-32 screws holding the DPU mounting bracket to the circuit breaker panel assembly. See Figure 2 for the location of the DPU mounting bracket screws.

Figure 2 - DPU Bracket Mounting Screws
4.12 Remove the DPU and mounting bracket as an assembly. Retain for later installation.
4.13 Remove the load ring terminal wire ID L28A14 from the STROBE circuit breaker (CB11).
4.14 Remove the buss bar connecting circuit breakers to line power.

4.15 Loosen circuit breaker retention nut and remove circuit breaker from panel assembly.
4.16 Discard removed model 2TC2-5 circuit breaker.
4.17 Removal of the 5 amp STROBE circuit breaker (CB11) is complete.

5.0 CIRCUIT BREAKER INSTALLATION
5.1 Position replacement circuit breaker marked 2TC2-10 in the STROBE (CB11) panel location and install retention nut finger tight.
5.2 Install circuit breaker buss bar screws and tighten to a torque of 9-12 in-lbs.
5.3 Install circuit breaker load wire L28A14 ring terminal with screw and tighten to a torque of 9-12 in/lbs.
5.4 Tighten circuit breaker retention nut.
5.5 Position the DPU and the DPU mounting bracket assembly. Secure with four (4) 6-32 machine screws.
5.6 Connect engine data processing unit ribbon cable connector PVM03A to DPU connector PVM03.
5.7 Connect engine data processing unit cable connector PVM01 to DPU connector PVM01.
5.8 Connect engine data processing unit cable connector PVM04 to DPU connector PVM04.

The following steps install the circuit breaker panel into the instrument console. To avoid damage to the wiring harness, use care during the installation of the circuit breaker panel.

5.9 Gently pivot circuit breaker panel to vertical and slide into the instrument console.
5.10 Install seven (7) 8-32 machine screws securing the circuit breaker panel to the instrument console.
5.11 Install two post lamp hoods removed previously.
5.12 Push circuit breaker BAT 1 (CB001) – CLOSED.
5.13 Perform operation check in the procedure to follow.
5.14 Installation of the 10 amp STROBE circuit breaker is complete.

6.0 ANTI-COLLISION LIGHT FUNCTION TEST
6.1 Verify all circuit breakers – CLOSED.
6.2 Position the ALT and BAT master switch – ON.
6.3 Position LIGHTS, STROBE switch – ON.
6.4 Verify anti-collision lights are flashing.
6.5 Allow anti-collision lights to operate for a period of one minute.
6.6 Verify STROBE breaker remains – CLOSED.
6.7 Position LIGHTS, STROBE switch – OFF.
6.8 Verify anti-collision lights are – OFF.
6.9 Position the ALT and BAT aircraft master switch – OFF.
6.10 Anti-collision light function test complete.

7.0 RECORDS
7.1 Make the applicable aircraft maintenance log entry.
7.2 Send completion sheet to Liberty Aerospace as indicated in the last page of this SID.

8.0 SID-09-001 IS COMPLETE
LIBERTY AEROSPACE, INC.  
SERVICE DOCUMENT  
Contains Useful Information Pertaining To Your Aircraft  

Category: 4  
SERVICE INFORMATION DIRECTIVE (SID)  

SID-09-001  
Technical Portions FAA Approved

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<th>SUBJECT</th>
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Please complete and return this page by scanned Email, regular mail, or FAX, indicating SID-09-001 has been received and all actions have been taken to comply with it.

**EMAIL:**
CustomerSupport@libertyaircraft.com

**Regular Mail:**
ATTN: Technical Support
Liberty Aerospace
100 Aerospace Drive
Melbourne, FL 32901

**FAX:** 321-752-0377

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Melbourne FL, 32901  
(321) 752 - 0332

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