



SAFETY ALERT SA0008

Cub Crafters, Inc. Considers Compliance Mandatory 08/10/2011

EFFECTIVE DATE: This SAFETY ALERT is effective August 10, 2011.

SUBJECT: Additional Electrical Protection

MODELS AFFECTED: CC11-100 and CC11-160 S/N 0001, 00002 through 00177.

COMPLIANCE TIME: Aircraft equipped with Dynon Flight DEK-D180: PRIOR TO NEXT FLIGHT
All Others: 25 HRS, NEXT MAINTENANCE ACTION, or 3 CALENDAR MONTHS, whichever comes first.

PURPOSE: It has been determined that electrical wiring behind the instrument panel may chafe against adjacent equipment. This Safety Alert addresses this by adding protective chafe tape to the affected areas and inserting fusible links in certain electrical circuits.

WARRANTY: Parts will be supplied to all aircraft. For aircraft under warranty, Dynon equipped aircraft 2.5 hours of labor allowed, all others 1 hour of labor, up to \$75.00 per hour.

PARTS LIST:

<u>PART</u>	<u>DESCRIPTION</u>	<u>QTY</u>
SC71021-001	Fusible Link for 10 GA wire	1
SP55005-001	In-line Fuse Holder (Blade Type)	1
SP55011-001	10 Amp Fuse (Blade Type)	1
VP6003-009	Butt Splice Step Down 16-14 to 22-18G	2
HDW-22759-16-10	10 AWG, Tefzel, Black (M22759/16-10-0)	14"
VP6001-023	Terminal Ring, 12-10G 1/4 Stud	2
VP6001-051	Terminal Ring, 12-10G #8 Stud	4
VP6001-027	Terminal Ring, 16-14G #8 Stud	1
RM1072-001	Tape, UHMW Polyethylene	7"

INSTRUCTIONS:

1. All aircraft:
 - a. Disconnect main battery
 - i. Remove pins and slide pilot seat fully forward
 - ii. Tip pilot seat forward
 - iii. Disconnect negative side of battery

2. All Models with Dynon

- a. Inspection of wiring behind instrument panel.
 - i. Unscrew Dynon from its mounting tray.
 - ii. Pull out the Dynon while taking care as the screw that secures the Dynon to its tray protrudes and could cause an injury or scratch the adjacent equipment or structure.
 - iii. Remove the COM radio and transponder.
 - iv. If equipped with the Garmin GDU370 or GDU375, remove it, too.



Figure 1 - View of instrument panel with Dynon pulled out

- v. Carefully inspect all wires, especially the ones that run from the circuit breakers and switches above the Dynon. Check for chaffing from contact with avionics or aircraft structure. (See Figure 2)

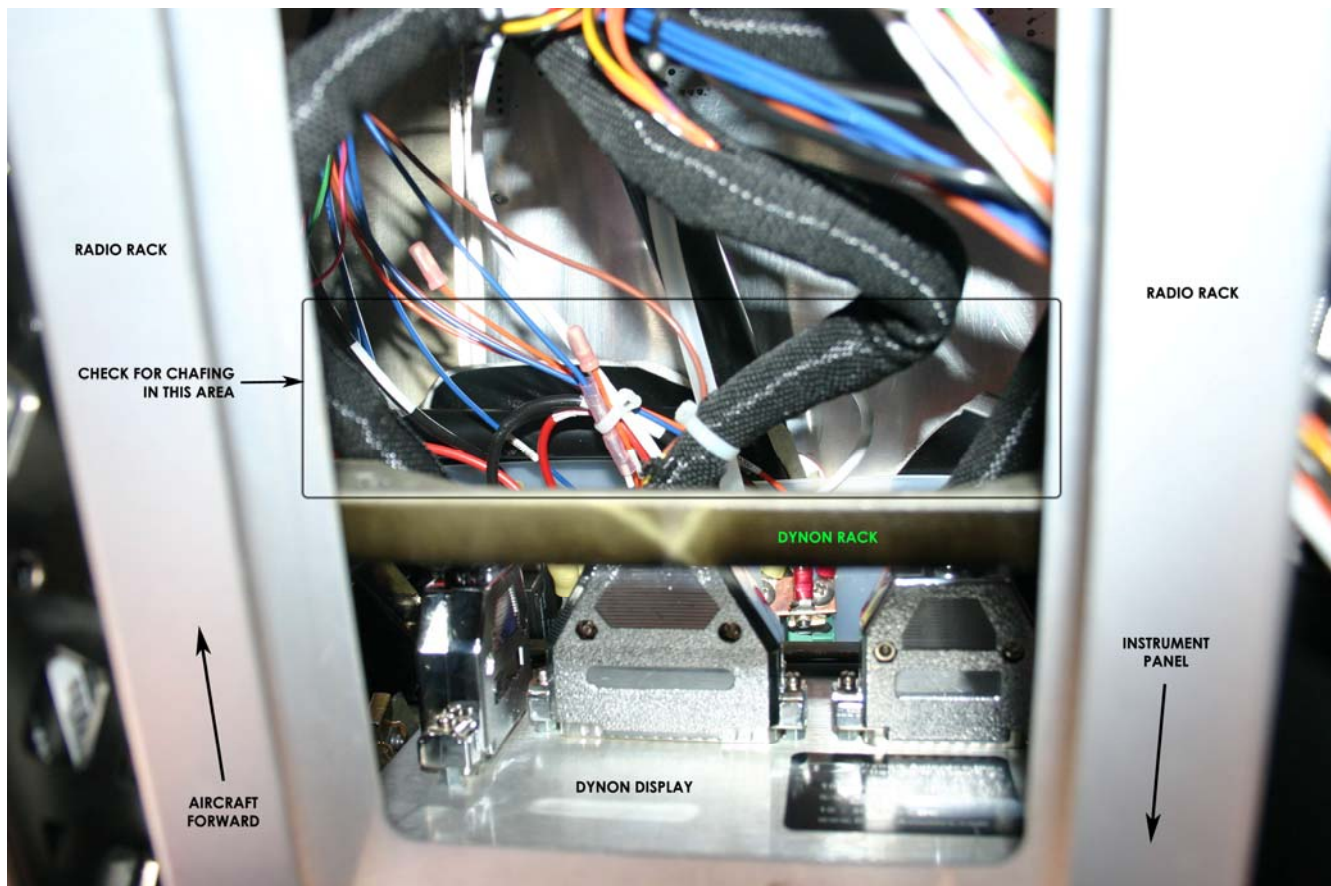


Figure 2 - View from under looking up behind instrument panel

- b. Repair (if required).
 - i. If any wires are chaffed, repair per AC43.13 or AC65-15A. New jumpers may be fabricated using Mil-Spec 22759/16 (Tefzel) or equivalent wire. 12GA jumpers may be replaced with 10GA; 14GA or smaller may be repaired with a butt splice.
 - ii. If any wires are sagging and could possibly come into contact with the avionics, secure them in place.
- c. Installation of chafe protection.
 - i. Clean the upper part of the Dynon

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- ii. Apply 3M chafe tape along (aircraft) forward edge where wires might rub. (See Figure 3)



Figure 3 - Upper part of Dynon with chafe tape installed

- d. Reinstall avionics.
 - i. Reinstall Dynon and any other avionics that may have been removed.
 - ii. Inspect carefully that no wires may be chafing against any avionics or aircraft structure.

3. **All aircraft not equipped with Dynon FlightDEK-D180.**
 - a. Inspect wiring behind instrument panel, particularly around avionics baskets. If chafing is found, contact Cub Crafters for repair instructions.
4. **All Aircraft:** Installation of a fusible link under the floor of the aircraft:
 - a. Gain access to the under floor area of the aircraft by removing the triangular access panel on the belly of the aircraft. (See Figure 4)
 - i. Com whip antenna is mounted on this panel
 - ii. Disconnect antenna, lead, and ground wire. Remove panel.



Figure 4 - Lower access panel

- b. Identify the black 10 GA wire attached to the Master Solenoid labeled: P03A10BK. (See Figure 5)

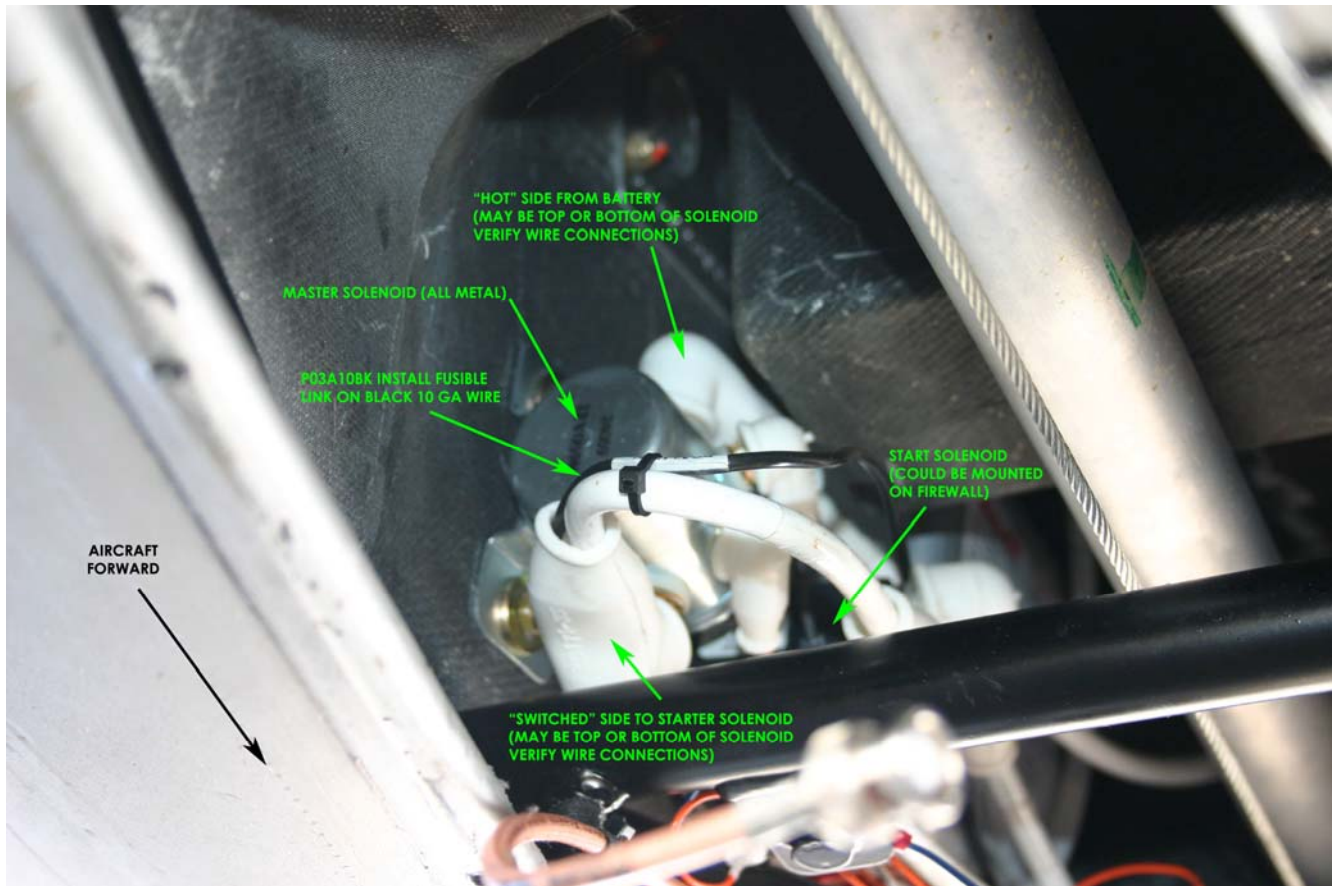


Figure 5 - View looking up through access

- i. Remove the ring terminal from the solenoid. Pull out the P03A10BK wire for proper fit and routing of a fusible link.
- ii. Clip off the existing ring terminal on P03A10BK

- iii. Crimp on the SC71021-001, Fusible Link, onto the P03A10BK wire per AC43.13 or AC65-15A. (See Figure 6)



Figure 6 - Fusible Link Spliced on P03A10BK

- iv. Attach Fusible Link to solenoid where P03A10BK was disconnected.
 - v. Ensure appropriate wire clearances and routing around flight controls in this area. Secure P03A10BK as appropriate.
 - vi. Reattach com antenna, lead and ground. Reinstall belly panel.
- 5. All Aircraft:** Inspection and installation of a fuse holder and fuse in wire going up left, forward window post:
- a. Locate MB14A____. This is the wire that carries electrical power from the instrument panel up the left window post; it may be one of the following wires:
 - i. MB04A16BN, a brown 16 GA wire (most Sport Cubs).
 - ii. MB04A20O, an orange 20 GA wire (some early Carbon Cubs).

- iii. MB04A20W-1, a white 20 GA shielded wire (later Carbon Cubs and current production) will have 20S stamped along its length.
- b. Between the main bus and left window post cut this wire.
 - i. As close to bus as accessible.
- c. Install fuse holder, SP55005-001, and 10 amp fuse, SP55011-001.
 - i. If shielded wire, splice fuse holder to center conductor only.



Figure 7 - Location of fuse holder and fuse

- 6. All Aircraft:** Functional check and log book entry.
- a. Reconnect main battery
 - b. Start the engine in accordance with the Pilot's Operating Handbook.
 - c. Perform a functional check of all the electrical equipment on the aircraft.
 - d. Allow the engine to run with the avionics on for at least five minutes.
 - e. Shut the engine down in accordance with the Pilot's Operating Handbook.
 - f. Perform a visual inspection behind the instrument panel.



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- g. If all checks are satisfactory, make an entry in the aircraft's log book showing that Service Alert No. 0008 has been carried out.

If you are no longer in possession of this aircraft, please forward this information to the present owner/operator. Notify Cub Crafters, Inc. of the current owner's address. Contact the customer service department at:

Cub Crafters, Inc.
1918 S. 16th Avenue
Yakima, WA 98903
Toll Free Number: (877) 484-7865
or e-mail support@cubcrafters.com

Please include the aircraft registration number, serial number, and the name and address of the current owner/operator.