

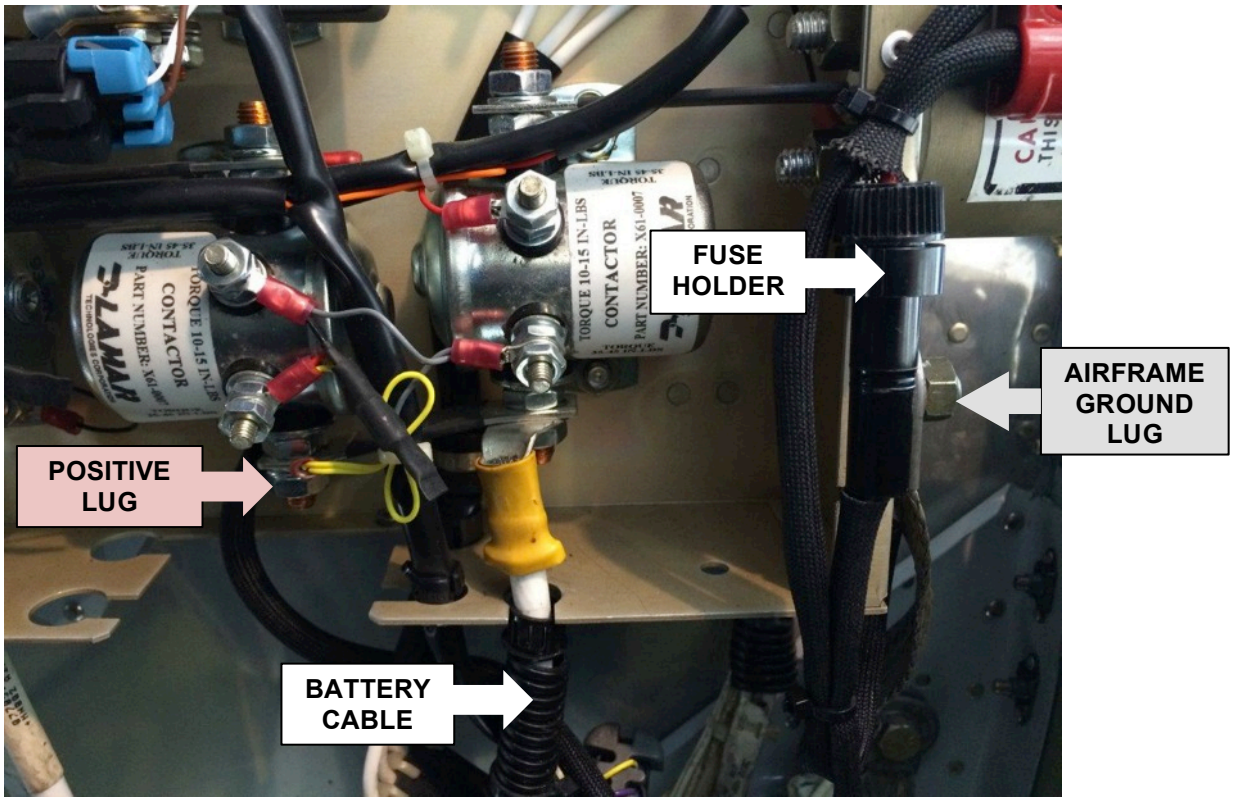
## Cessna C182 G1000 Skylane Installation Example Enhanced Flight Model BM-AIK Airframe Interface Kit for **BatteryMINDER**® Maintenance Charger

This installation example supplements the instructions for installing the BM-AIK1 or BM-AIK2 charger harness kit. Please read the instructions with the kit completely before referring to this example. The kit instructions call for connecting to the battery relay and an airframe ground, instead of directly to the battery. The relay and airframe ground are readily accessible in the Skylane at the Power Junction Box inside the left cowling where the external power receptacle is located. The exact configuration of your aircraft may vary from this example and require variations from these instructions.

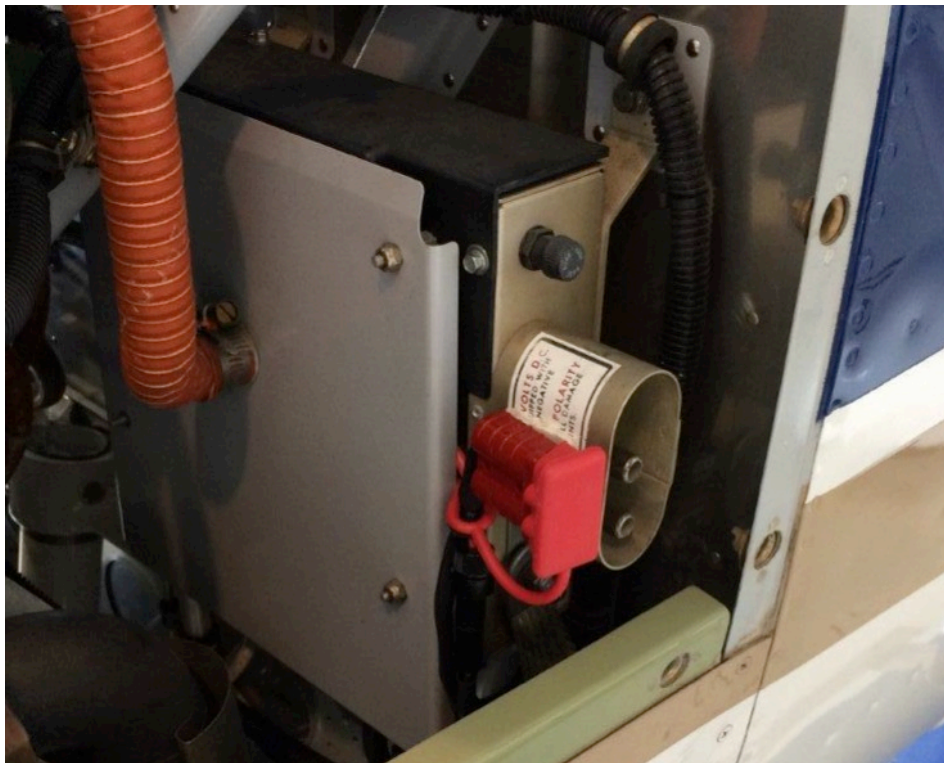
- 1) Remove the close out panel from the rear baggage compartment to access the battery box. Disconnect the battery cables.
- 2) Remove the engine left side cowling.
- 3) Remove the cover from the Power Junction Box.
- 4) Assemble charger connection cable from the parts kit. Connect the fuse holder assembly to the positive side of the Anderson SB50 plug and add wire for a length of about 16". Use the fiberglass sleeving to protect and terminate with one of the large ring terminals. Similarly, connect about 10" of ground wire, add protective sleeving, and terminate with ring terminal.



- 5) Temporarily attach the red SB50 plug to the front side of the external power receptacle to hold in position while connecting the harness.
- 6) Attach the positive terminal of the cable assembly to the left side relay contactor. Verify continuity between SB50 positive lug and the positive battery cable.
- 7) Attach the negative terminal of the cable assembly to a convenient airframe ground, such as the lug on the left side of the Power Junction Box where the braided airframe ground strap is attached under the external power receptacle.
- 8) With harness wired to battery relay and airframe ground, attach dust cover and secure the SB50 plug to the external power receptacle with spacers and a hose clamp.
- 9) Reattach battery cables and test for proper voltage and polarity at the SB50 plug with aircraft power OFF.
- 10) Install elastomeric dust cover on SB50 plug and label "MAINTENANCE CHARGER".
- 11) Replace both covers to the Power Junction Box.
- 12) Replace battery box cover and rear closeout panel.



Maintenance charger harness connections at Power Junction Box



Power Junction Box covers re-installed and dust cover attached. Space SB50 plug approximately .15" to provide clearance for dust cover. Use hose clamp to secure plug to external power receptacle.



Finished installation. BatteryMINDER plug adapter connects through the external power opening in the LH cowling.

- 13) Perform cockpit electrical system test for normal operation.
- 14) Make appropriate entry in airframe maintenance logbook to document installation as minor alteration and return to service.

Thanks to Dave Bennett for contributing the above photos from his installation.