

## Beechcraft Model 58 Baron 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 contactor relay and an airframe ground, not directly to the battery. In this 1999 58 Baron the battery box and all related electrical power are located under the RH floorboard of the forward baggage compartment. The exact configuration of your aircraft may vary from this example and require variations from these instructions.



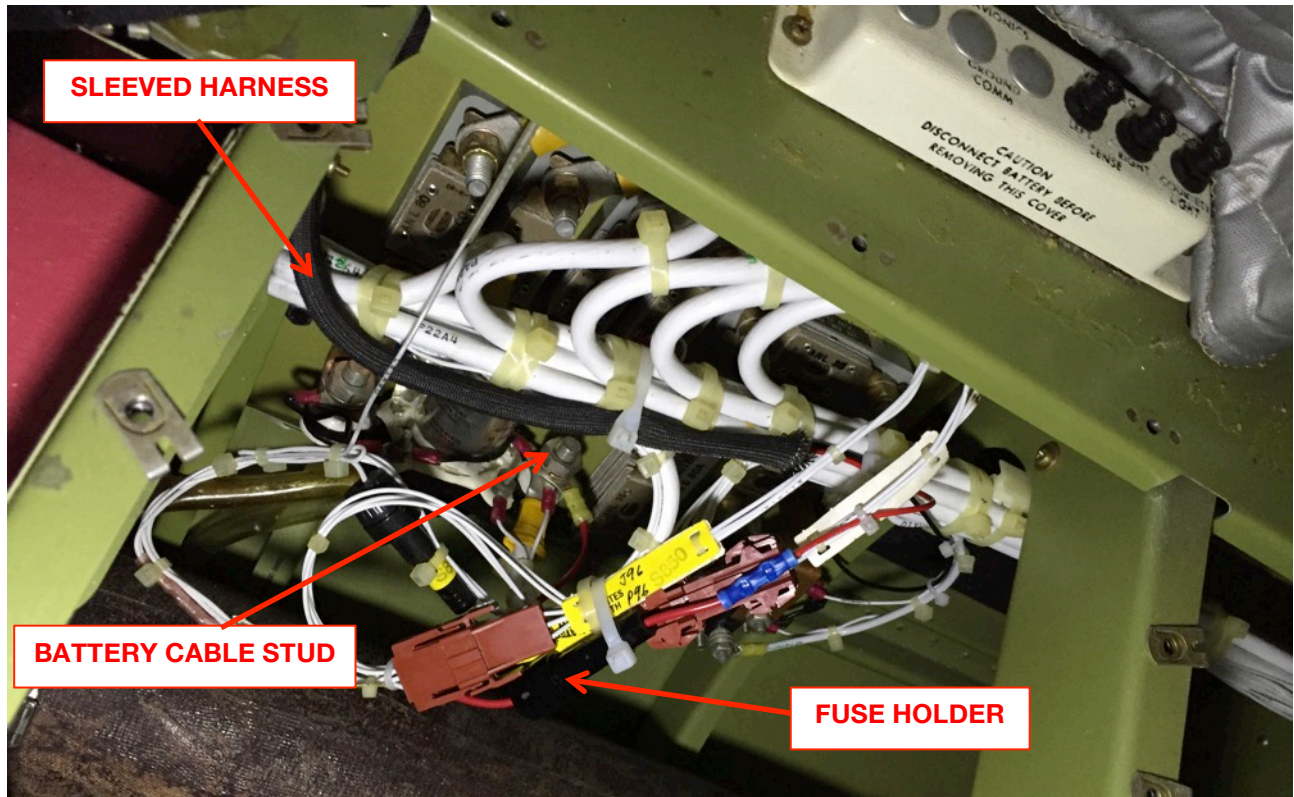
- 1) With the Battery Master switch OFF. Open the forward baggage compartment and remove the battery box cover. The Baron uses two 12V batteries strapped together in series to provide 24V power. Disconnect the battery cables. The strap that connects the two batteries does not need to be removed.
- 2) Determine a suitable location for the red Anderson SB50 connector, accessible but close to the battery. We chose mounting it vertically on the aft baggage compartment bulkhead. In this location, be sure to tape it in place, with the dust cover mounted, and close baggage door to insure no interference before drilling mounting holes. Also, check behind to assure no interference with wiring.



- 3) Torch solder the SB50 contacts to the red and black harness wires, then assemble contacts into the connector, observing marked polarity.
- 4) Insert the kit's fiberglass protective sleeve through the existing hole in the bulkhead, then push the red & black harness wires through the sleeve until only a small loop remains. Mount the SB50 connector with the dust cover to the baggage bulkhead using a stack of washers to provide the necessary clearance for the dustcover, about 0.15". Do final check for door clearance.



- 5) Assemble the fuse holder. Using a 3/8"D ring terminal, attach one end to the large stud at the battery contactor where the positive cable from the batteries is connected.
- 6) Route the harness wires in the protective sleeve down to the open lead on the fuse holder, trim harness to length and connect the positive leads with the provided butt splice.



- 7) Connect the black harness wire to a convenient airframe ground.
- 8) Check continuity and polarity on the harness, then secure with tie wraps.
- 9) Label or placard the plug or dust cover "MAINTENANCE CHARGER".
- 10) Reattach battery cables and test for proper voltage and polarity at the SB50 plug with aircraft power OFF.
- 11) Connect charger to the SB50 plug. Observe correct polarity and battery condition on the BatteryMINDER. Connect charger power cord to AC and verify normal operating indications on the BatteryMINDER.
- 12) Re-install battery box, floorboard covers and trim.
- 13) Perform functional test of aircraft electrical system.
- 14) Make appropriate entry in airframe maintenance logbook to document installation as minor alteration and return to service.

Thanks to AirMart, Inc. at Blue Grass Airport in Lexington, KY for their kind assistance with this installation.

[www.AirMart.com](http://www.AirMart.com) Phone: 859-233-9399