

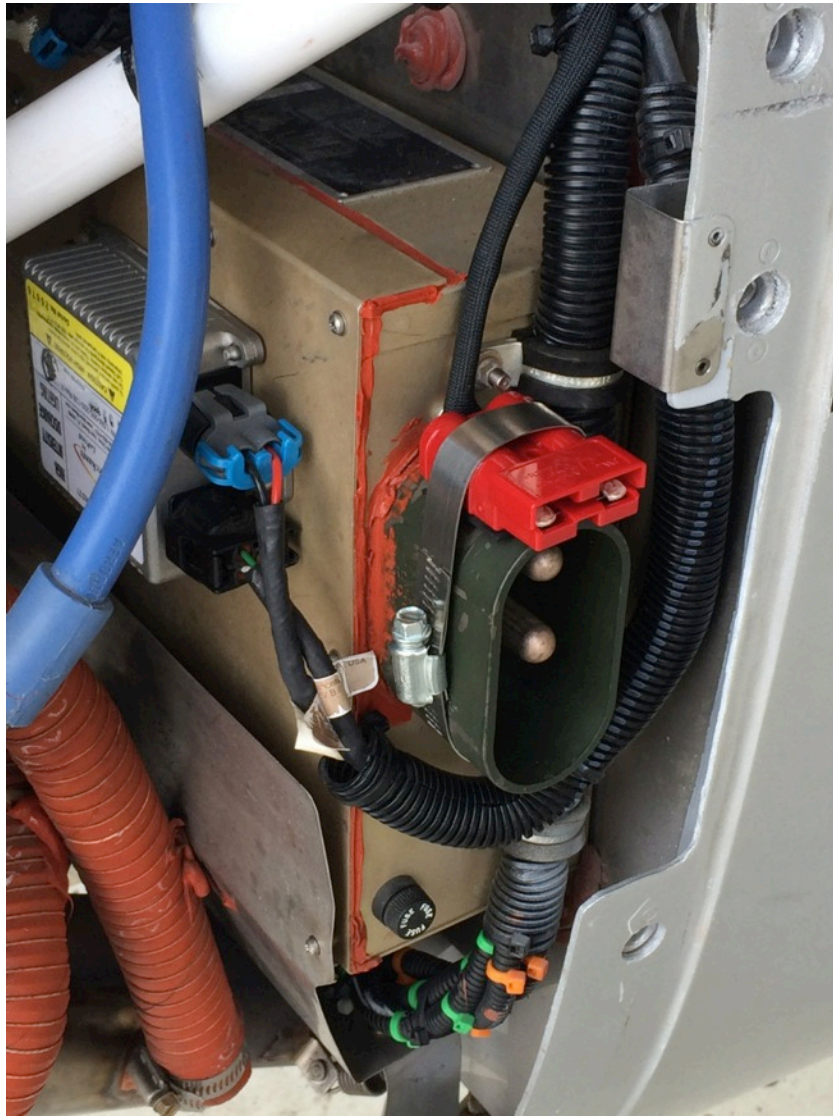
Cirrus SR22-G3 Turbo Installation Example Enhanced Flight Model BM-AIK Airframe Interface Kit for **BatteryMINDER® Maintenance Charger**

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. In the SR22, the connection will be to the Master Control Unit (MCU) which has connection studs for the battery cable and ground. The exact configuration of your aircraft may vary from this example and require slight changes from these instructions.

- 1) This SR22 has 2 batteries – a main, cranking battery located on the starboard firewall, and a second emergency back up battery aft of the passenger compartment. This installation is for the main battery only.
- 2) A removable access panel for the external power receptacle is located at the top aft portion of the lower right cowling. Just above the external power receptacle is a rectangular area where the wiring kit's red SB50 plug will fit to provide convenient access for connecting the BatteryMINDER during hangar storage.



- 3) Begin by removing the upper and lower cowling assembly.
- 4) Assemble one end of the harness by soldering the wires into the SB50 contacts, and inserting the contacts into the connector. Slide the fiberglass protective sleeve over the 2 wires and up to the plug.
- 5) Secure the plug assembly atop the external power receptacle using a band clamp. One side of the SB50 plug is rounded - this is the side to be in contact with the plug. Also, a small square of silicone baffle material should be used between the plastic plug and the external power receptacle. NOTE: For this installation, the dust cover supplied with this kit does not fit well and should not be used.



- 6) Route the sleeved harness wires up from the plug to follow the existing wire bundle over to the area of the battery and ground terminals on the MCU. The legend for those terminals is on the top of the MCU, but the actual connections are on the outboard side.
- 7) Assemble the fuseholder and connect one end to the battery cable stud using a ring terminal. Route the fuseholder assembly to make it accessible above the MCU and follow the existing wire bundle. Re-cover the stud with its rubber boot.
- 8) Trim the positive (red) harness lead to length and connect to the open fuseholder wire using the supplied butt splice. Secure wires and fuseholder to the existing wire bundle.
- 9) Route the ground wire (black) following the same path to the MCU ground stud and connect with ring terminal. Secure to wire bundle with ties.
- 10) Check continuity and polarity of harness at the SB50 connector with voltmeter.
- 11) Label SB50 connector "MAINTENANCE CHARGER."
- 12) Connect BatteryMINDER to aircraft and check for proper operation.
- 13) Perform cockpit electrical system test for normal operation.
- 14) Make appropriate entry in airframe maintenance logbook to document installation and return to service.



Finished installation with mating charger cable connected.