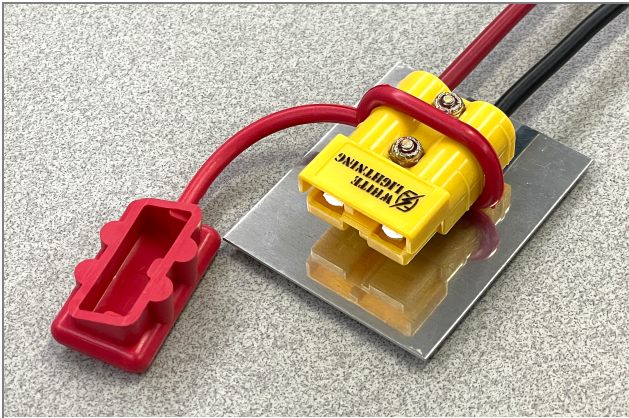


External Power Connector Kit for Experimental Aircraft

PN 670-530

This kit provides the connector parts for installing an external power receptacle suitable for using a ground power unit, up to 50A. This kit is supplied as part of the Model M1435-EXP Mini-GPU. Please read the GPU manual completely for details and wiring options for Experimental/Amateur-Built aircraft before proceeding.



Parts List:

PART NO.	QTY	DESCRIPTION
716-504	1	Connector, SB-50, Yellow (12/14V) with 2 contacts for up to 6 AWG wire
713-367	1	Elastomeric dust cover
713-078	8	Washer, ¼" ID ½" OD black nylon

In addition to these special parts, the installer must provide some standard aviation grade hardware (minimum 8 AWG primary wire, ring terminals, fasteners, etc.) and fabricate a mounting scheme/bracket for the connector to position it in a convenient location.

Connector Assembly Instructions:

- 1) Strip wire to expose 9/16" (14mm)
- 2) Solder contact to wire as follows:
 - i) Melt rosin core solder into contact well, about ½ full. (Chef's torch works well for this.)
 - ii) Insert stripped wire into well and continue heating until solder flows into wire.
 - iii) Avoid spilling solder outside the well onto contact surface. Remove if necessary.
- 3) Observing correct polarity, place contacts in housing with notched side of tongue against spring.
- 4) Push contact and cable into housing until it snaps over the end of the leaf spring; tug slightly to verify contact is locked in place.

Connector Mounting Instructions:

- 1) Pull the dust cover lanyard strap over the connector between the two mounting holes.
- 2) Use a stack of 4 washers for each fastener to provide about ¼" clearance for the dustcover.
- 3) Secure to mounting surface with 2 each 6-32 x 1" screw, washer, and stop nut.

Mark aircraft as follows:

Label plug: **EXTERNAL 12-14VDC POWER**
Placard: **AIRFRAME POWER ONLY 50A MAX
NOT FOR ENGINE START**

Update AFM/POH electrical description section.

Enter the installation into the airframe maintenance log noting any limitations.

WHITE LIGHTNING
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