

**Thank you for purchasing UMA's EL instrument lighting system. *The white light system only is PMA'd under STC# SA01640NY\**** The enclosed bezel is designed to fit a 2 1/4" or 3 1/8" standard aircraft instrument. A DC to AC inverter is required to operate the bezel. UMA offers inverters in several input voltages (see chart on back). The enclosed connector kit is designed to be used in conjunction with UMA EL Bezels. (see diagram 2)

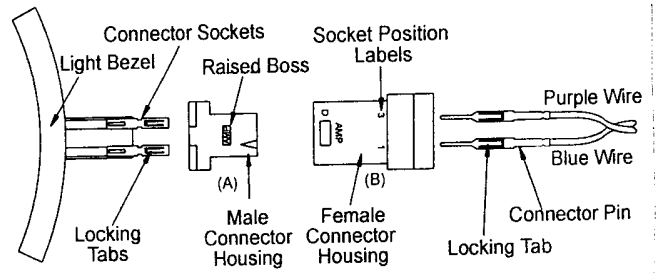
**INSTRUCTIONS: PLEASE READ ALL DIRECTIONS BEFORE STARTING!** Place the bezel between the instrument and the panel, or between the panel and the panel overlay. Use 20-24 AWG twisted pair wires or shielded for all connections between inverter and lights. If you are using shielded wire, connect all the shields together near the inverter and connect to ground at the inverter ground connection. One UMA inverter will power up to twelve bezels (and/or UMA internally lit instruments). Refer to diagram 1 on back for instrument wiring references. **When using a dimmer, connect it between the inverter and aircraft power to vary the DC input** together with 1Amp fast acting fuse. If connecting to an existing dimmer circuit, some modifications to aircraft wiring may be necessary. Contact UMA for information.

To install the connector kit on bezel; **Refer to diagram 2 on back for details.**

**1.** Position the **EL Pigtail** with the **Locking Tabs** on the **Connector Sockets** facing up. Align the **Male Connector Housing** with the small **Raised Boss** facing up. Center it on the EL Pigtail and slide the sockets into the slots in the wide end of the male housing. Be sure it locks (snaps) into place. [Note: If it does not lock into place, flip the male housing over and reinsert]. Take note of which two slots the sockets slide into (Positions 3 & 1, or 3 & 2). **2.** With the labeled side of the **Female Connector Housing** facing up and the **Locking Tab** on the **Connector Pin** (attached to the blue wire) **facing down**, slide the connector pin into the proper slot (1 or 2 as determined above) of the female housing until it locks (snaps) into place. [Note: Pin orientation will be the same as the pin that has been inserted into slot 3]. Twist (a minimum of 8 turns per foot) blue&violet wires of the connector kit together and attach to the EL light inverter wiring harness (See Inverter Instructions). Be sure to insulate all wire connections with heat shrink tubing, or equivalent. When installing more than one bezel, wire them in parallel. **3.** Snap the two Connector Housings together. **4.** Use the supplied **tie-wrap** to secure wiring to gauge by placing wrap close to the connector on the harness side of the connector and route the tie-wrap completely around the gauge body and tighten securely.

\*Installation Eligibility is Raytheon Aircraft Company (Beechcraft) 65-A90-1 and 65-A90-4.  
Installation documentation is available @ <http://www.umainstruments.com/>

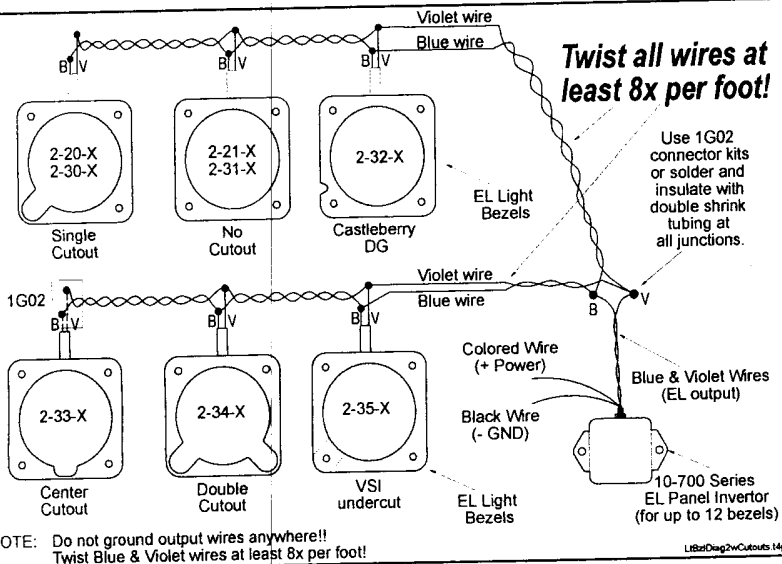
### 1G02 EL Light Connector Kit



Insert connector (A) to terminals on light strip.  
 Fasten female connector (B) to connector (A).

1g02\_InstallationInstruction\_2012.t4g

**Twist all wires at least 8x per foot!**



IOTE: Do not ground output wires anywhere!!  
 Twist Blue & Violet wires at least 8x per foot!

LightStrip2wCutouts.t4g

#### Additional Part Numbers:

P/N	Description	Wire Color
10-700-05	5 Volt light inverter	Red/Black
10-700-14	12-14 Volt light inverter	Green/Black
10-700-28	24-28 Volt light inverter	Yellow/Black

P/N	Description
1G01	Dimmer Potentiometer
1G02-1	Connector Housings
1G02	Connector Kit
1G01-1	Dimmer Pot with switch

- 2-425-050 EL Light Strip w/ adhesive backing 1/2" X 25"
- 2-411-120 EL Light Strip w/ adhesive backing 1.2" X 11.5"

- 2-423-075 EL Light Strip w/ adhesive backing 3/4" X 23"
- 2-418-150 EL Light Strip w/ adhesive backing 1 1/2" X 18"