INSTALLATION GUIDE
POINTER REMOTE SWITCH KIT
P/N 2019-10
TSO-C91a
(Models 3000-10, 3000-11, 4000-10, 4000-11 ONLY!)

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POINTER AVIONICS
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WARNING !! : Pins "A" and "B" at the remote jack on the transmitter are fused internally. Shorting will open the fuse and the unit will have to be returned for repair.

The instructions in this guide should be followed to ensure a systematic and correct installation.

1. Verify that the following components are included with the kit.
   A. Remote 3-position rocker switch
   B. Female 5-pin remote cable connector
   C. Panel Decal "ON"-"AUTO"-"RESET"
   D. FCC warning label.

2. Determine the switch location on the control panel using the decal as a template. The chosen location should take into account pilot visibility and access for installation.

3. Cut a .750 inch square hole at the chosen location with a chassis hole punch. If a punch is not available, use the decal as a guide and carefully scribe the hole on the panel. The hole can now be made using other tools or methods.

WARNING! In order for the rocker switch to be correctly installed in the panel, the hole dimensions must be accurate.

4. Clean the area around the hole and carefully align and apply the "ON"-"AUTO"-"RESET" decal. Remove the paper backing from the decal. A smooth finish can be obtained by rolling the label with a cylindrical tool.

5. Pull the panel end of the 3-wire shielded remote cable through the prepared panel hole. Dress and solder the wires to the remote switch terminals as shown in the drawing below. Note the position of the "red dot" on the switch body. Connect the aircraft buss to the switch terminal as shown (Figure 1 ~ below, Figure 2 ~ on page 2). Install an in-line fuse or breaker as required.

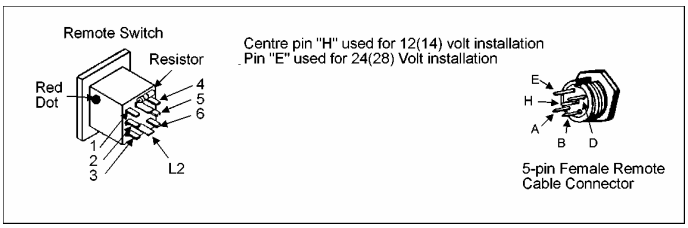

Figure 1 – Pinout Diagram

DO NOT INSTALL THE SWITCH IN THE PANEL AT THIS TIME

6. Slide the retaining clamp hood onto the remote cable at the ELT end of the cable. Dress and solder the wires to the plug end as shown in the wiring diagram. Select the correct pin, "E" or "H" for the appropriate aircraft buss voltage. Assemble the connector, activate the aircraft buss and perform the following pin test.

REMOTE CONNECTOR PIN-OUT TEST

Measure Pins	Switch Position AUTO (Centre)	Switch Position ON (Up)	Switch Position RESET (Down)
A to B	OPEN	0 ohms	OPEN
A or B to D	OPEN	OPEN/0 VDC	OPEN/0 VDC
E or H to D	0 VDC	0 VDC	Buss Volts

7. **DE-ACTIVATE** the buss voltage and connect the female cable connector to the male connector on the ELT unit. A small amount of silicone grease should be applied to the connector face before mating to protect the pins against corrosion. Place the remote panel switch in the "**AUTO**" position and **ACTIVATE** the aircraft buss. Connect a 50 ohm load to the antenna connector on the transmitter and perform the following functional tests.

   A. Place the remote panel switch in the "**AUTO**" (centre) position and the transmitter master switch in the "**AUTO**" position. The warning lamps on the ELT and the remote panel switch/monitor should not illuminate.

   B. Place the transmitter switch in the "**ON**" position. The warning lamps at the transmitter and remote panel monitor should illuminate. If a VHF receiver is tuned to 121.5 Mhz, a downsweeping tone should be heard.

   C. Place the transmitter master switch in the "**AUTO**" position and the remote panel switch in the "**ON**" position. The warning lamps should illuminate and the tone should be heard. Return the remote panel switch to the "**AUTO**" position. The warning lamps should not illuminate.

   D. With both switches in the "**AUTO**" position, shake the transmitter in the direction of the arrow on the ELT control panel. Do not "bump" the ELT handle to perform this test as the handle may be damaged. When the automatic switch operates, both lamps will illuminate and the tone will be heard on the VHF receiver.

E. With the unit operating as in step D, press the remote panel switch to the momentary "**RESET**" position and release it. the transmission should stop and the lamps should not illuminate.

This completes the installation test. Place the transmitter master switch in the "**OFF**" position and **DE-ACTIVATE** the aircraft buss voltage. Install the transmitter in the mounting bracket and connect the antenna cable to the antenna connector.

8. Tie-wrap the aircraft buss wire to the 3-conductor cable for support. Position the switch in the centre of the panel mounting hole and carefully push in with a slight rocking motion until the switch is flush with the panel. There are positioning tangs on the sides of the switch bezel which must slide into mounting hole to provide a flush position on the panel. This installation is permanent and removal of switch may destroy it. **ACTIVATE** the aircraft buss voltage.
9. Place the remote panel switch in the "**AUTO**" position. Set the master switch on the transmitter to the "**AUTO**" position and install the switch guard as shown in the installation manual. Verify that the indicator on the transmitter is not illuminated and that no signal is heard on a VHF receiver tuned to 121.5 MHz.

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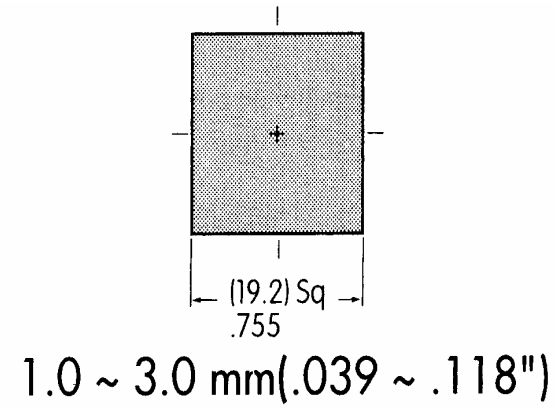
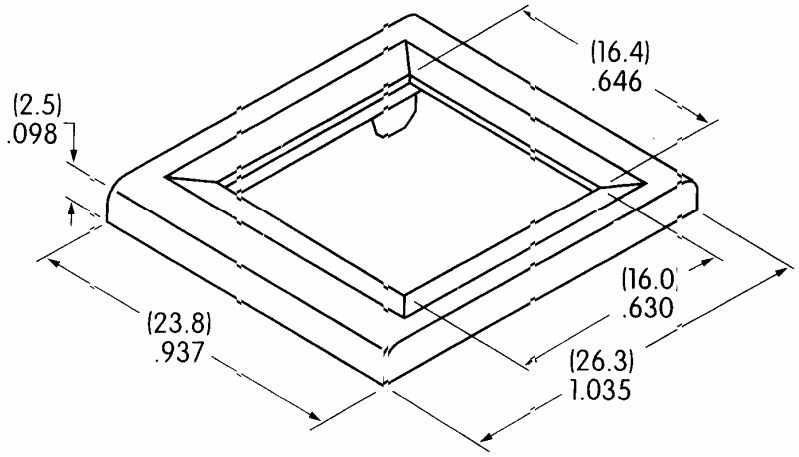
Panel Cut-Out / Thickness & Bezel Dimensions:





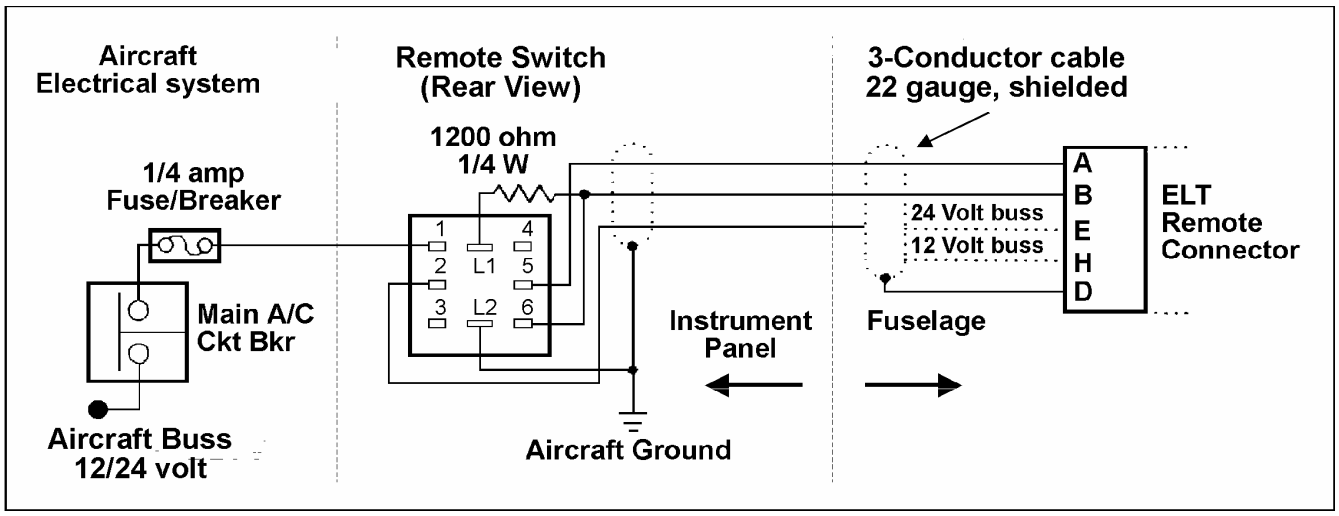


Figure 2 – Wiring Diagram