



# Customer Information Letter

## Sky Connect LLC

Letter Number: SC2006-007

Category: Aviation Units SOP A System

Topic: Conversion of the SOP A to remove the SOP Dialer and add an MMU

This information letter will give directions to the customer to replace an existing SOP Dialer with the newer MMU (Mission Management Unit). If you are adding the MMU and leaving the SOP Dialer installed, see the Installation Manual for instructions.

The following is a list of items that must be addressed when performing an upgrade to a SOP A system with the MMU.

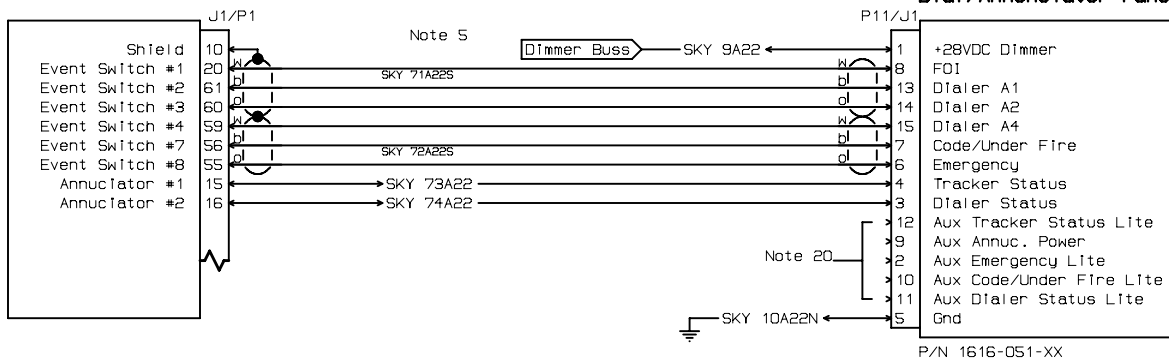
- 1.) The transceiver must have the internal software updated to the MMU release version or later.
- 2.) If your operation requires event switches other than squat switch, you may need to order the proper labeled switches, the MMU does not contain the Position, Code, and Emer switches the SOP Dialer did.
- 3.) Wiring instructions are included in this document. Review them for accuracy against your installation. If your installation varies make the appropriate changes.

### General Instructions for installation

- 1.) Remove the SOP Dialer from the aircraft.
- 2.) Depin the 15 pin connector that was connected to the SOP Dialer taking care to make sure the wires are marked.
- 3.) Install the 25 pin connector included with the MMU install kit with reference to the drawings included in this document.
- 4.) Re pin the 62 pin connector on the transceiver with reference to the drawing included in this document.
- 5.) Create an MSet (message set) and load into the MMU.
- 6.) Perform an operational check of the MMU with reference to the MMU Operator's Manual.

**Sky Connect Transceiver**

**Dial/Annunciator Panel**

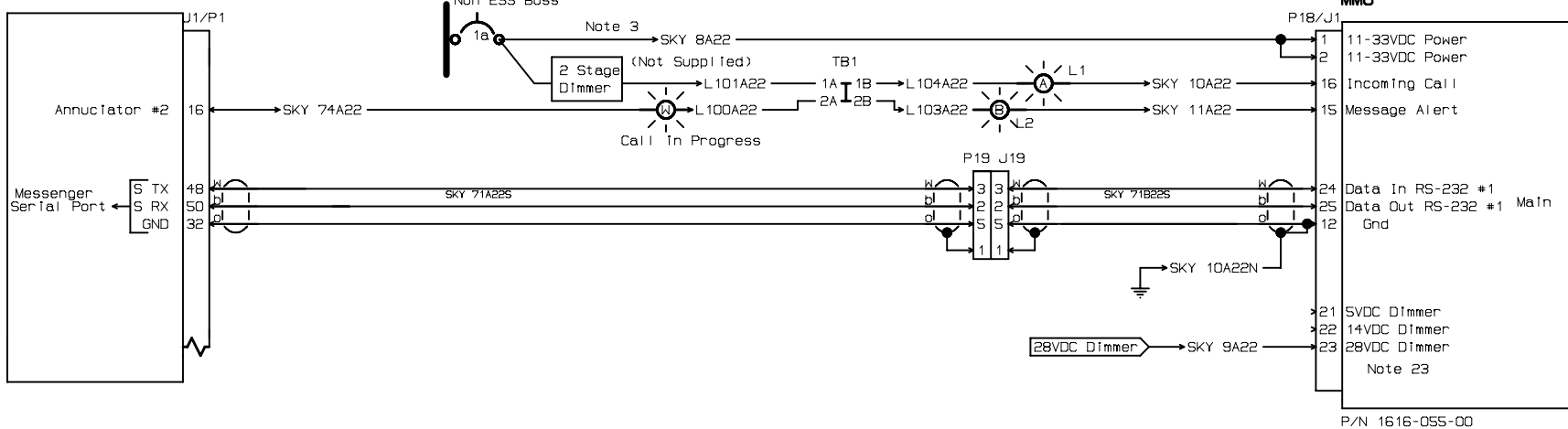


**Change over Instructions (general in nature)**

- 1.) Starting with the wiring configuration above, remove wire SKY 71A22 from the transceiver, and P11.
  - 2.) Repin SKY 71A22S as shown below in to the transceiver. If your installation has three twisted pairs instead of two three conductors, wire accordingly.
  - 3.) Add P19 at the MMU location. Wire as shown below. This connector can be used to program the MMU in the aircraft if needed.
  - 4.) Add J19 and wires to the MMU as shown below.
  - 5.) Wire SKY 74A22 to the "Call In Progress lite if so desired.
- NOTE: some SOP Dilaers the dimmer voltage was wired to a power buss, and the dialer was not dimmable. This should be considered prior to proceeding.
- 6.) Add SKY 8A22 wire from the power buss to the MMU. This wire did not exist above because "power" was not required by the SOP Dialer. If running a new power wire is not possible, SKY 73A22 maybe used to power the MMU. Connect at transceiver end to 28VDC power, and connect to pins 1 and 2 at MMU.
  - 7.) Rewire SKY 9A22 to the MMU if this wire was connected to the Dimmer Buss. If not it will have to be added if dimming is required.
  - 8.) Wire SKY72A22S and SKY 73A22 should be removed from the 62 pin connector and capped and stowed both ends. SKY 73A22 maybe wired to an Individual lite if desired.
  - 9.) Wire SKY 10A22N as shown below.
  - 10.) In coming call and message alert lites may be wired if desired.
  - 11.) A two stage dimmer should be used so the dimmer would not ever completely turn off the lites.

**Sky Connect Transceiver**

**MMU**



**Dwg.# 1616-910-16 SOP Dialer to MMU Conversion**

ICARUS Instruments	
File:	c:\cktrct\my_schematics\conversions.sch
Title:	Conversion Drawings
Sheet:	SOP Dialer to MMU Conversion
Drawn:	M. Freyder
Engineer:	M. Freyder
Approved:	M. Freyder
Created:	25-SEP-2006 11:01
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