

# LN-SAP/SAO Radio & Intercom Installation

**DEFINITIONS:**

1. PILOT – R/H side pilot
2. CO-PILOT – L/H side pilot
3. PASSENGER – Aft passenger seat

- **ON/OFF** (turn CCW to off)
- **PILOT IC Volume**

**ISOLATION SWITCH:**

- **CENTER/LEFT (ALL)** – normal position, all on same IC circuit
- **RIGHT (ISO)** – **PILOT** isolated on **COM**. **CO-PILOT** and **PASSENGER** can communicate together, but can not communicate with pilot or hear/transmit on **COM**



**STATUS LIGHT:**

- **NO LIGHT** – IC off
- **GREEN** – IC on
- **BLUE** – COM transmitting



Only **BATT. CB** to be pulled after after shut down.

## **GENERAL:**

The IC has two circuits with individual volume and squelch: PILOT (R/H seat) and CO-PILOT/PASSENGER. The volume switch will adjust the IC volume and the COM volume. In addition, the COM volume is also adjusted from the RADIO. This gives an additional level of volume control for the COM volume in case of unmatched helmets/headsets and hearing.

The PILOT can isolate himself/herself (ISO mode), so that only he/she can hear and communicate with ATC. When isolated, the CO-PILOT/PASSENGER can communicate in-between themselves, but can not hear/speak to PILOT or ATC. If AUDIO IN is in use, this signal will only be available to the CO-PILOT/PASSENGER in the ISO mode.

Only pilot keying COM, will be heard on the radio.

The IC has input for audio from phone/MP3 player/iPad. The sound from this input can not be heard by ATC and will be muted when transmitting or receiving on COM. In addition, the IC has output of audio from IC/COM. This signal can be used to record audio on GoPro or a similar device. The signal is only available when IC is ON and in ALL (PILOT not isolated).

Intercom switches previously located on side consoles have been removed. Intercom ON/OFF switch on center console is no longer in use and is marked INOP.

## **FAIL-SAFE MODE:**

If the IC is off or fails, the PILOT will still be able to hear and transmit on COM. The CO-PILOT and PASSENGER will have no audio.

## **IMPEDANCE:**

- IC/COM installation is HIGH/HIGH impedance requiring standard electret microphones (GA standard).
- Connection plug to IC/COM is U-174/U plug (military single plug). Standard GA helmets/headsets can be used, but adapter from dual GA plug to U-174/U must be used if the helmet/headset does not have a U-174/U plug
- Military LOW/LOW impedance helmets and headsets can be used, but a IMPEDANCE CONVERTER must be used between the helmet and the IC/COM connection. SFFK has 5 impedance converters. Two converters shall be stored in the aircraft (normally plugged in). The spare converter is located with the helmets.