AN-103 **Portable Mono INTERCOM**

The AN-103 intercom is a portable design that has been used successfully in general aviation. The AN-103 intercom is a 2-place, voice activated mono intercom with modular design.
Pilot-to-Passenger hands-free conversation, radio transmits capability, battery power or auxiliary power, and input-output source all rolled up into one! All standard aircraft headsets and portable push-to-talk switches are compatible with the AN-103 intercom.

Technical Specifications

- Power: 6 alkaline 1.5V AAA Batteries
  Auxiliary Power Cord (11-34 VDC)
- Size: 4" x 2.9" x 2.2"
- Current Drain: max current drain 0.08 amperes
- Battery Lifetime: 150-180 Hours of use
- Headphone Interface: PJ-055
- Microphone Interface: PJ-068

Intercom Features

- Completely Portable
- Off/On Power
- Two Station Capability
- Fail Safe Radio Communications

Even with the intercom "OFF", the pilot can hear all radio communications and can transmit through the aircraft radio using the headset boom mic. The headset mic is routed directly to the radio via the "ON-OFF" switch. The "fail safe" feature also works should the battery go dead in mid-flight, thus providing the most fail-safe unit on the market.

- Superior SQL Circuitry

The sensitivity of the squelch is controlled by turning the control clockwise (increasing mic sensitivity) or by turning the control counter clockwise (decreasing mic sensitivity). The squelch can be adjusted to meet even the most extreme noise levels of aircraft noise. Setting the squelch properly allows the intercom to be active only when someone speaks into their headset microphone. The intercom will become inactive as soon as they stop speaking. In this manner all extraneous noise in the cockpit is not heard over the microphone.

- Volume Control
- Auxiliary Power Jack & Cigarette Power Cord

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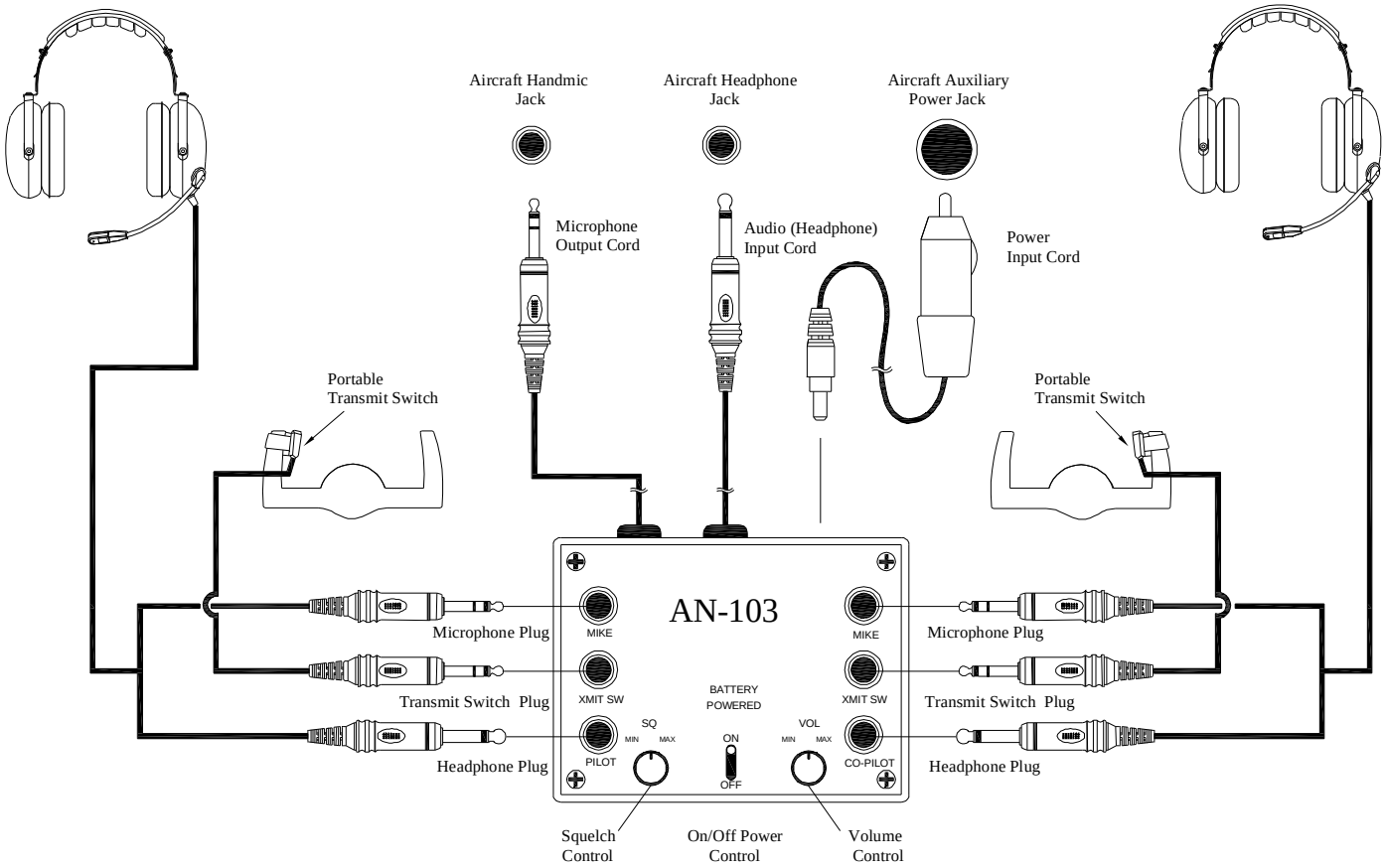
Connection Schematic



How To Use The AN-103 INTERCOM

A. Connect the intercom as illustrated in the Connection Schematic. Be certain that the transmit switch and corresponding headset mic plugs are connected on the same side as shown in the schematic, since the mic input on the opposite side is disabled when a transmit switch is activated.

B. Put on headset(s) and position the boom mic close to the mouth, as you would with a hand-held mic. Voice clarity is best when the mic is at one side of the mouth and 1/4" from the lips.

C. Set audio panel to "Headphone" position, if applicable.

D. Turn power 'ON' and set the volume control to a low level. (1/4th to 1 / 3rd open for best signal to noise ratio). Maintain minimum acceptable volume for hearing protection.

E. Adjust squelch control clockwise until background noise becomes audible. Then rotate counter-clockwise small, incremental amounts until background noise disappears, (This procedure is necessary because the squelch is a 'fast on, slow off' circuit.) Small adjustments may be necessary if aircraft background noise changes significantly, such as from idle to full power.

Transmit Mode

To transmit, depress the transmit switch and your voice is automatically transmitted via the aircraft radio. When transmitting, your voice or side-tone is heard in all headsets connected to the intercom .The intrecom automatically provides simulated transmit side-tone.You may also transmit from the pilot's position with the unit 'OFF'. (Fail Safe feature).

A small, square, trimmer potentiometer is provided inside the unit for adjusting the mic input level to the radio. In the event of over-modulation or reports of weak transmissions, an appropriate adjustment can be made. Clockwise rotation of the screwdriver adjustment increases the mic output level.

Battery Replacement Instructions:

1. Turn unit "OFF"
2. Remove battery door by pressing on the center as you slide it out.
3. Remove the battery
4. Connect the new battery and insert it into the unit
5. Slide the battery door back in and resume normal operation.

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