

# PILOT PA-200T Intercom, PA-200EXP Expansion Module

## Operational Guide

### 1.0 Introduction

In this rapidly changing world of electronics, our industry is being bombarded by new innovative features from flat screen monitors to digitally enhanced audio systems. Our latest products, headsets and intercoms, have had a cell phone interface added so that you can communicate on the ground using your headset or have your cell phone as a back-up for a radio failure.

Before going on and reading this guide, we would recommend that you register your purchase by completion of the warranty card provided with the intercom. We hope that our intercom will enhance your flying experience for many years to come. If you have any questions after reading this manual, please do not hesitate to contact us on 1-714-731-0790.

### 1.1 Features

- Portable & Compact
- Cell / Satellite Phone Interface
- Pilot & Co-Pilot Volume Controls
- Adjustable Squelch Circuit
- Portable Push-To-Talk Switch
- Fail Safe Mode
- Easy Battery Access
- Powered by 9V Battery
- 25-30 Hours Battery Life
- Expandable to 4 Stations (PA-200EXP)

Table of Contents	Page
Introduction .....	1.0
Features .....	1.1
Off/On Power .....	1.2
Pilot/Co-Pilot Volume Control .....	1.3
Squelch Adjustment .....	1.4
Cell Phone Interface.....	2.0
Fail-Safe Feature.....	2.1
PTT / Y-Adapter Set-up.....	2.2
Battery Power .....	2.3
Expansion Module .....	2.4
Warranty .....	2.5
Technical Specifications.....	2.6

### 1.2 Off/On Power

The intercom is turned on by turning the system's volume control clockwise. The control has a definite "click" when it is turned On or Off. The pilot's headset must be plugged in for the intercom to function properly. Your intercom is also equipped with a Power Off Circuit. If the Pilot's headphone plug is disengaged from the jack, the intercom will power off.

### 1.3 Pilot / Co-Pilot Volume Control

The intercoms volume is increased by turning the volume control clockwise. Decrease the volume by turning the control counter-clockwise. This control regulates the volume heard by the pilot and co-pilot. The co-pilot position on the intercom will not function unless the pilot's headphone plug is engaged on the pilot's side of the intercom. Many pilots in order to remember turning the intercom off, add a "Power Off Intercom" instruction to their aircraft's checklist.

### 1.4 Squelch Setting (SQ)

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.

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### 2.0 Cell Phone

Our latest enhancement to our proven intercom is the addition of cell phone cord with jack. This will allow the pilot to use their cell phone though the intercom while still wearing a headset. Some cell phones may require an adapter which can be purchased at most electronic stores. This cell phone feature also provides the pilot with a back-up for the aircraft radio in case of a malfunction.

The intercom comes with one cord fitted with a 2.5mm plug on one end and a 3.5mm plug on the opposite end. The 3.5mm plug at the end of the cord is plugged into the jack marked CELL PHONE. The 2.5mm plug end is then plugged into your cell phone. Your cell phone may require a cell phone adapter which can be purchased at a local electronics store. If the pilot does not want the co-pilot to hear the cell phone conversation, the squelch needs to be turned all the way counterclockwise. The pilot can then talk in a low voice and their co-pilot will not hear them because the co-pilot's headset will block out any noise or conversation.

Air Traffic Control will always be more intelligible (louder) than music or incoming cell phone conversation allowing the pilot to always hear ATC transmissions.

### 2.1 Fail-Safe Feature

All the PILOT 200 models of intercoms are equipped the Fail-Safe feature. This means if your battery fails, you will still be able to hear ATC transmission but the level of volume will be reduced. As long as the intercom is in turned On, you will hear ATC transmission through the intercom system.

### 2.2 PTT / Y-Adapter

Up to 2 portable PTT switches can be used with the unit, The Pilot and Co-Pilot can connect a portable PTT switch by connecting the portable PTT to microphone jack in the Y-adapter. The Y-adapter plugs directly into the aircraft's microphone jack. The PTT is used to transmit over the radio to ATC. The PTT can also be connected, in the conventional way, in series with your headset and your intercom jacks.

### 2.3 Battery Power

We recommend using one 9V alkaline battery to operate your intercom. The intercom will operate on one battery for approximately 25-30 hours of maintenance free use. We recommend that you keep a log of when your battery was installed so that you have a good idea when it should be replaced.

### 2.4 Expansion Module (PA-200EXP)

There is a module available that will allow your PA-200T intercom to be converted to a 4-place intercom. It comes with an expansion box and cord that plugs directly into the jack labeled Passengers on the PA-200T intercom. When using the expansion module, it is recommended a 2<sup>nd</sup> 9V battery by inserted in the expansion module.

### 2.5 Warranty Service

If your unit requires service we recommend you send it directly to Pilot USA Inc. so that repair or replacement can be expedited. Please remember you are sending us an electronic component and package the unit appropriately. We recommend UPS or US Priority Mail. Please ship prepaid and enclose \$12.00 for shipping & handling.

### 2.6 Technical Specifications

Power: 1 alkaline 9V Batteries

Current Drain : Leakage 0 mA standby; 10 mA in use

Dynamic Response : 500mS (VOX controlled) off  
12 mS (VOX controlled ) on

Volume Control : 35 dB

Battery Lifetime : 25-30 Hours of use

Headphone Interface : PJ-055B, (M642/4-1) MIL-P-642

Microphone Interface : PJ-068 (M642/5-1) MIL-P-642

Cell Phone Interface : 2.5mm Plug

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