

Liberty Series | “Biggest Bank For The Buck” PA-1771T

Originally introduced at the Oshkosh AirVenture@ 2001 Fly-In as the first ANR headset with built-in cell/satellite phone jack, the PA-1771T continues to be one of the industry’s most popular, affordable ANR headsets. As one of our lightest weight ANR headsets (11.9oz), this ANR combines 25dB (NRR) passive noise reduction and 18-22 dB of active noise canceling. **Made in USA**

Features

- Passive:** 25dB (NR)
- Active:** Additional 18-22dB
- 30dB Noise reduction at 100Hz
- Auto On / Auto Off Circuitry w/manual override
- Electret noise canceling microphone w/ windscreen
- Sheepskin head pad
- Soft Leatherette Confor® Foam Seals
- Cell/Satellite phone interface
- Auxiliary audio interface for music
 - or audible checklist/warnings
- Mono/stereo capability
- Dual volume control
- Custom padded headset case
- Uses 9V alkaline battery
- Battery life 25-35 hours
- Weight: 11.9 oz (333 grams)
- Five year warranty

Additional Model available: PA-1771TH Helicopter Model with coiled cord and U174/U plug.

Optional Accessories: Attachable L.E.D. Flashlight, Throat Microphone, Leatherette Windscreen, Twin Layer Gel Ear Seals, Metal Headband, Cloth Ear Seal Covers

Table of Contents

Introduction	1
Features	1
Fitting Your Headset	2
Microphone Placement.....	2
Volume Control.....	2
Mono/Stereo Selector.....	2
Battery Box.....	2
A. Power Button	2
B. LED Light	2
C. Power Jack	2
D. Battery Compartment Door.....	2
Cell / Satellite Phone Jack	2
Soft Headset Case	3
If You Have A Problem	3
Taking Care of your Headset	3
A. Microphone Windscreen.....	3
B. Ear Cushions	3
C. Communication Cord	4
Specifications	4
Contact Information	4

Fitting Your Headset

Wearing your headset properly is paramount to achieving both comfort and the best performance from your new ANR headset. The headset should be placed on your head and slowly pulled down so that each ear cup is properly positioned over each ear for maximum noise attenuation.

The headband can be tightened or loosened by using the hand adjustable knurled knobs on the slides of the headband so that it fits your head properly. It should apply slight pressure on your head without being snug. You may need to make your final adjustments in a high noise environment and with the ANR electronics turned on.

Microphone Placement

Your headset comes with a fully flexible microphone boom and a noise canceling electret microphone. The boom can be rotated 360 degrees for left or right side use. Proper placement of the microphone is critical in order to achieve clear communications. The microphone should be placed at the corner of your mouth approximately 1/4” away from the lips.

Volume Control (On Comm-cord splitter)

The PA-1771T is fitted with 2 individual volume controls, one each for right and left side of the headsets. The volume control is located on one side of the triangular splitter on the comm-cord. The other side contains the mono/stereo selector. When adjusting the volume control the pilot-in-command should adjust their volume control first with the audio system turned on and the ANR system turned off. Then turn the ANR back on and adjust the individual sides of the headset.

Mono/Stereo Selector (On Comm-cord splitter)

Your headset comes standard with a Mono/Stereo selector switch which is located on one side of the triangular comm-cord splitter. “M” indicates the mono position while “S” indicates the stereo position. The volume control is on the reverse side. It should be noted that if you are using a monaural intercom and your headset is set in the stereo position, you will only hear through one speaker on your headset. With a stereo intercom, you will hear true stereo in if the selector switch is set to the stereo mode position.

Power Button (On Battery Box)

The push button on the battery box is the On/Off switch for your ANR headset. To turn power on, press the button down, re-engaging the button will turn the power off. When the ANR system is turned on the green LED light on the faceplate of the battery box will illuminate.

LED Light (On Battery Box)

The LED light indicates the power status of your ANR system. When the light is illuminated, the ANR system is turned on.

Power Jack (On Battery Box)

The power cord from the headset plugs into the power jack on the face plate of the battery box.

Battery Compartment (On Battery Box)

The ANR System is powered by one 9V alkaline battery. Battery life is estimated to be 25-35 hours depending on level of noise in the environment. Battery life is also affected by age, and extreme temperatures (hot or cold). To change the battery, simply slide the battery plate off of the battery box and insert the new battery. Reinstall the battery plate and you’re ready to go.

Cell/Satellite Phone Capable

In an emergency, having the capability of being able to place a cell phone call from your aircraft is one of the reasons *PILOT* has installed a Cell/Satellite jack on the headset. Located on the boom side ear cup, a 3.5mm jack has been installed. It will work with 90% of cell phones in the marketplace. An adapter may need to be purchased from us in order to utilize this feature. The jack can also be used to plug in your music input source.

Custom Padded Headset Case

We provide you with a custom padded headset case to protect your ANR headset and to house your battery box, headset and comm-cord. You should treat you headset like you would treat any other electronic product of value. Keep clean, and keep it out of extreme temperatures.

If You Have A Problem

Some potential problems you may encounter are listed below with the possible solution for the problem:

Problem: Audio is heard in only one ear

Solution: Check Mono/Stereo selector for proper setting

Problem: Communication, but the ANR system is not working

Solution: Make sure the headset is turned on. Check LED. Check to make sure the battery is fresh.

Problem: ANR works but no communications.

Solution: Check the headset and intercom volume controls to see if they are set too low.

Problem: No ANR and no communications.

Solution: Check all cable connections both on Battery Box and on the headset.

Problem: Whistling & squealing sound or cricket sound

Solution: Check to see that the outer foam pad is still in-place in the center of the ear seal. If the foam pad is missing, check your headset case to see if it has come loose. If not, contact *PILOT*.

Problem: “Motor boating” or low rumbling sound with headset turned on in a quiet environment.

Solution: This could be caused by a small pressure change possibly caused by opening a cabin door or possibly by turning your head and causing a leak between your ear headset and the ear seal. Check your ear seals for wear or possibly the headsets were stored improperly and the cushions were squeezed into an abnormal shape. A low battery can also cause this problem.

Taking Care of Your Headset

To insure the full life of your headset, keep it clean and free of dirt and you will extend the headset’s life giving you many years of flying pleasure.

Clean your headsets with non-alcohol wipes or a soft slightly cloth dampened with water and a mild soap. Never use alcohol. Plastic parts dry out or fray when exposed to alcohol based products. Headband, ear cups, ear seals and cords can be lightly cleaned but one should be careful around the microphone and speakers on the headset.

Mic Windscreen

Pilot USA recommends periodically replacing the microphone windscreen if necessary. The foam microphone windscreen helps eliminates the popping “P”s and “T”s and annoying breath puffs when you’re communicating with the headset. The foam microphone windscreen also helps protect the microphone from moisture and other elements that may cause damage to the electronics. You may use mild soap and water to clean your foam windscreen. Place the foam windscreen in mild soapy water. Rinse and make sure the windscreen is fully air dried before reattaching to the microphone.

Ear Cushions

Ear seals also need periodic replacing. Depending on how much you fly, temperature (extreme heat or cold) also influences the life span of your ear seals. We have several types of ear seals on our headsets. Generally, PVC, foam and silicone gel style ear seals can be wiped off with mild soap and water. **Do not submerge the ear seals in water.** All three types of our ear seals have vent holes and water would enter the ear seal’s vent holes ruining the ear seal.

Communication Cord

Take care of your communication cord. Wires in the cord can break if abused. Always disconnect them by disconnecting the plugs, not by pulling the cords. Pulling on the cord, instead of the plugs is a major cause of headset repairs – it causes wire breaks and static. We recommend storing your headset in a headset case or flight bag and keeping the cords free of obstruction to reduce wear and tear on your headset.

Specifications

Microphone:

Generating element - electret condenser
Polar Pattern—Bi-directional
Frequency Response—150-4000 Hz
Impedance—50 ohms @ 16 VDC
Sensitivity— 100dB @ 1mW input
Power Requirements— 8-16 VDC
Current Drain—8 mA at 8 VDC
Color/Case Materials —Black ABS
Weight — 6 grams
Mating Connector—U173/u

Transducers:

Audio speaker impedance: 300 ohms
Nominal Power: 100 mW
Max Power: 200 mW
SPL: 102+2dB at 1 KHz
Effective DNC Frequency Range: 30 Hz-8000Hz
Active Noise Reduction: 18-22 dB at 100 Hz
Maximum Ambient Noise Level: 120 dB SPL

Maahantuonti ja myynti:

PARATRONIC OY

Hynnälantie 414 63250 RANTALA
Puh 0400 297526 paratronic@paratronic.fi

www.paratronic.fi