

PA-5050

Concorde Series

Owner's Manual

“Lightweight ANR”

Pilots who fly slightly quieter aircraft than the norm will welcome the introduction of the new Concorde DNC headset. Weighing in at less than 9 ounces, the Concorde provides lightweight comfort along with an additional 15–18 dB of active noise reduction at 150 Hz. The headset targets the lower frequencies in its noise canceling ability without the clamping of a full conventional muff style headset - A real luxury for cabin class aircraft. Originally designed in Germany as a passive headset for professional use in aviation, radiotelephony, and the broadcast industry, we have fitted the unit with our state-of-the-art Direct Noise Canceling electronics giving the user the most comfortable, effective, lightweight ANR headset on the market.

Features

Passive Noise Reduction: (NRR) 17 dB
Active Noise Reduction: 15 – 18 dB @ 150 Hz
Digital Signal Processor IC
Enhanced Voice Audio-In
Mono / Stereo Capability

Dual Volume Controls
Custom Padded Protective Case
Weight: 8.9 Ounces (252 Grams)
3-Year Warranty
Made in USA

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2.0 Fitting Your Headset

Wearing your headset properly is paramount in achieving both comfort and the best performance possible. The headset should be placed on your head and slowly pulled down so that each ear cup is properly positioned over the ears.

It should apply slight pressure on your head without being too snug. You may need to make your final adjustments in a high noise environment and with the ANR electronics turned on.

2.1 Enhanced Voice Intelligibility (EVI)

The PA-5050 headset has incorporated into its integrated circuitry a proprietary DSP circuit which enhances all audio within speech frequencies. The result is a more intelligible incoming ATC transmission. Incoming speech frequencies are amplified 2 – 4 dB for more clarity and intelligibility. This is particularly favorable for pilots who may have some hearing loss.

2.2 Microphone Placement

Your headset comes with an adjustable microphone boom and a noise canceling electret microphone. The mic boom can be rotated 180 degrees for left or right side use. Proper placement of the microphone is critical in order to achieve clear communications. The microphone should be positioned at the corner of your mouth approximately $\frac{1}{4}$ " away from your lips.

2.3 Volume Control (On Comm-Cord Splitter)

The PA-5050 is fitted with two individual volume controls, one each for the 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-selector switch. 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.

2.4 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 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 of your headset. With a stereo intercom you will hear true stereo in both ears.

2.5 Battery Box

- A. **Toggle Switch:** The Toggle Switch on the battery box has 2 positions, Auto and On. To turn the ANR On when not plugged in to the aircraft panel or intercom, put the switch in the On position. To turn ANR Off, put switch in Auto Position. When switch is left in Auto position ANR will automatically turn on when headset is plugged in to the aircraft panel or live intercom system.
- B. **LED Light:** The LED light indicates the power status of your ANR system. When the light is illuminated, the ANR system is turned on.
- C. **Power Jack (On Battery Box):** The power cord from the headset plugs into the power jack on the face plate of the battery box.
- D. **Battery Compartment:** 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 hot and cold temperatures. To change the battery simply slide the battery plate off the battery box and insert the new battery. Reinstall the plate and you're ready to go.

3.0 Taking Care of Your Headset

Treat your headset like you would treat your stereo and computer at home. To insure the full life of your headset, keep it clean and free of dirt. This will extend your headset's life and give you many years of flying confidence.

Clean your headsets with non-alcohol wipes or a soft cloth, slightly 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.

3.1 Custom Padded Carrying Case

A padded case is provided with your PA-5050. The case will protect your headset when stored properly and provides a central place to keep any headset accessories.

3.2 Microphone Windscreen

Pilot Communications USA recommends periodically replacing the microphone windscreen if necessary. The foam microphone windscreen helps eliminate 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.

3.3 Ear Cushions

Ear seals also need periodic replacing. Usage and temperature variations are two factors that will influence the life span of your ear seals. We have several types of 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 seals have vent holes and water would enter the vent holes and ruin the ear seal.

3.4 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, causing 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.

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