

# PA-5050 ANR Concorde Series Instructions Manual

Pilots who fly slightly quieter aircraft than the norm will welcome the introduction of the new Concorde DNC headset. Weighing in at under 9 ounces, the Concorde provides lightweight comfort along with an additional 15–20 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.

## Concorde Series Features

- 20 dB Noise Reduction at 150 Hz
- Digital signal processor IC
- Enhanced voice audio-in
- Mono/stereo switch
- Dual volume controls
- Custom padded protective case
- Made in the USA of domestic and foreign components
- Five-Year Unconditional Warranty
- Weight: 8.9 ounces (252 grams)

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## **PA-5050 ANR Concorde Series**

### **2.0 Enhanced Voice Intelligibility (EVI)**

The Concorde headset has incorporated into its integrated circuitry a proprietary DSP circuit that enhances all audio within the speech frequencies. The result, enhanced incoming ATC transmissions, less background noise and unreadable garbled messages. Incoming speech frequencies are amplified 2-4dB for more clarity and intelligibility. This is particular favorable for pilots who may have suffered some hearing loss over the years.

### **2.1 Microphone Boom – Fully Reversible**

The PA-5050 is fitted with a multi-positioned ball joint microphone boom that can be worn on the left or right side of the headset. To rotate the microphone boom from left to right side, simply rotate the microphone boom of the headset downward. The entire outer shell of the ear cup will also rotate.

### **2.2 Mono/Stereo Selector Switch**

The Concorde DNC headset can be used in either monaural or stereo modes. A selector switch (M/S) and individual right and left ear cup volume adjustments are placed conveniently on the comm-cord for easy access. Each ear cup's volume can be individually adjusted in either mono or stereo mode. This allows users who may have suffered previous hearing loss in one ear to have perfect audio adjustment.

### **2.3 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.

### **2.4 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.

### **2.5 Power Jack (On Battery Box)**

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

### **2.6 Battery Compartment (On Battery Box)**

The ANR System is powered by one 9V alkaline battery. Battery life is estimated to be 25-30 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.

### **2.7 Auto Shut-Off Circuitry**

Your new PA-1779T comes equipped with our new Auto Shut-Off proprietary circuitry. The ANR will shut-off automatically when the unit is unplugged from the aircraft or the master avionics switch is turned off. This will conserve your battery's life. The headset will automatically turn on when the unit is plugged into a live intercom system with the white On/Off button in the "On" position. Should you want to turn off the headset while you are using the unit in an aircraft, simply press the On/Off button.

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### 3.0 Testing Your ANR System

In order to test your ANR headset, it must be plugged into the aircraft with a live intercom with the white On/Off button in the “On” position. The LED light will become illuminated when the ANR system is on. This will let you properly test all functions of the ANR system. If you are not plugged into a live intercom or the white On/Off button is in the “Off” position, the ANR system will not be activated but the headset will work as a passive headset.

### 3.1 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 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.

### 3.2 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 your wall charger, comm-cord, cell phone and auxiliary audio cord.

### 3.3 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

### 3.4 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.

### 3.5 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.

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