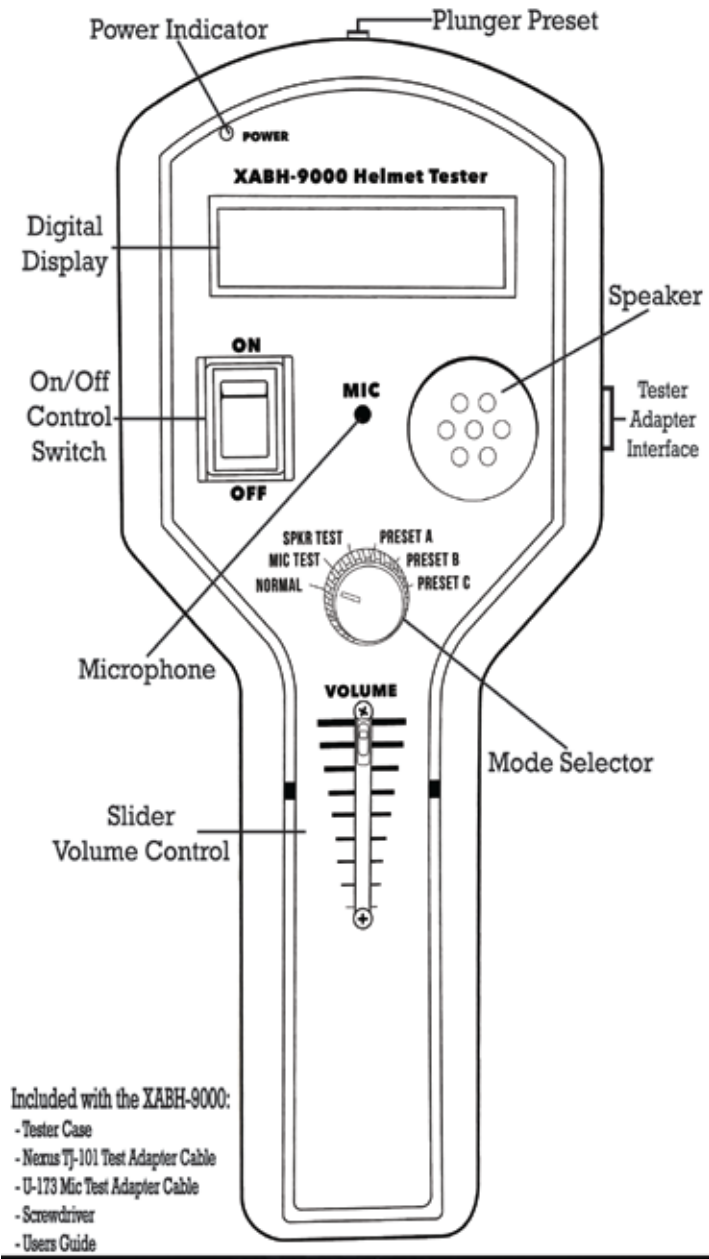
PRO FLIGHT GEAR
Aviation Life Support Equipment



Included with the XABH-9000:
- Tester Case
- Nexus TJ-101 Test Adapter Cable
- U-173 Mic Test Adapter Cable
- Screwdriver
- Users Guide

XABH-9000 HANDHELD ALSE TESTER USERS GUIDE

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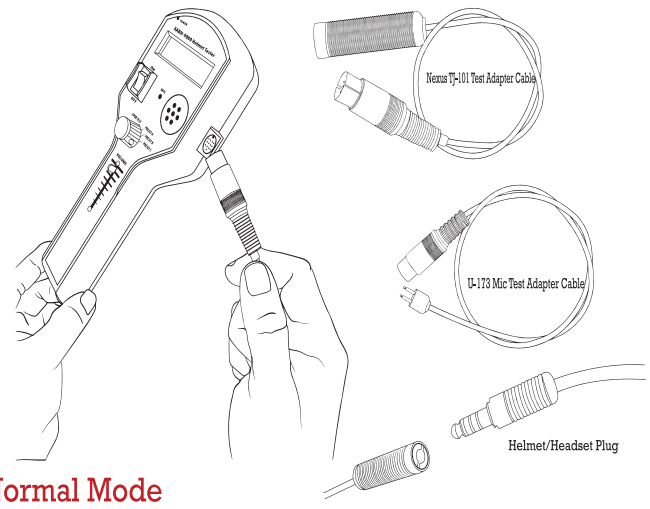
Operating Modes

The Tester has 3 Modes for Operation: "NORMAL", "MIC TEST", and "SPKR TEST": With Nexus TJ-101 Tester Adapter Cable connected to Tester and Helmet or Headset plugged into Adapter Cable.



Normal Mode

In normal mode, the tester will analyze the microphone and speaker to provide an indication as to what the resistance of those items are. This gives the operator an idea of whether the microphone or speaker are within the operational limits of the individual devices. This mode does not support testing of the systems through the device microphone (to provide audible indication of the tested speakers operating) or speaker (to provide audible indication of the tested microphone operating).

Mic Test

In the Mic (Microphone) Test position the tester will activate the tester speaker and allow the user to see the resistance of the microphone as well use of the microphone (speaking into it) to ensure that the microphone is operating correctly. This mode will power microphones (i.e. electret microphones) for testing as well.

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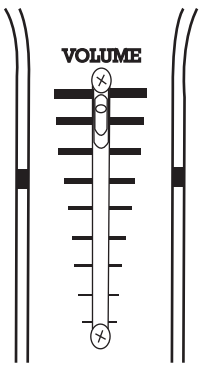
Spkr Test

In the SPKR (Speaker) Test position the tester will activate the tester microphone and allow the user to see the resistance of the speaker as well use of the speaker (transmitting what is broadcast by the tester microphone) to ensure that the speaker is operating correctly. This mode will test helmet, headset, and even earphone speakers.

Volume Slide

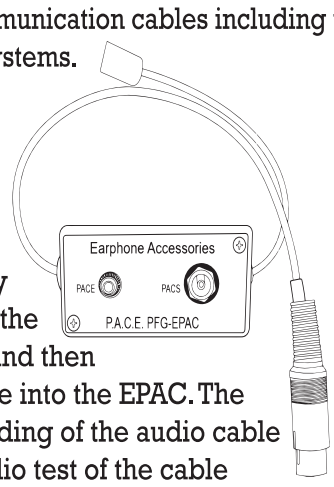
The volume slide increases or decreases the output volume of the tester speaker. Use this control to adjust the volume when testing microphones and speakers.

Pushing the slide up will increase the volume and pulling the slide down will decrease the volume.



EPAC

The EPAC provides both an Ohms test as well as an audio test of in-ear communication cables including the PACE, CEP or ACCES systems.



The test is performed by plugging the EPAC into the tester set on SPKR Test and then inserting the audio cable into the EPAC. The tester will provide a reading of the audio cable along with an actual audio test of the cable speakers.

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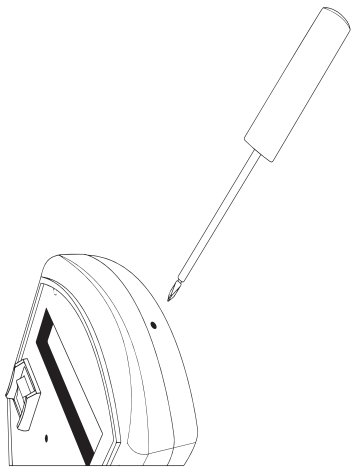
Presets

There are three preset positions (PRESET A, PRESET B, PRESET C) on the tester which allows the user to customize the test parameters for their own equipment.

The Preset acts the same way as the normal mode in that it will only give you a readout of the resistance of the connected system, but adds a "GOOD" or "BAD"



1. To preset a system, ensure the system is within the proper standards for the microphone and/or speaker.

2. Plug the system into the tester and move the control knob to the desired Preset position (either A, B, or C)

3. Confirm the readings for the connected system are still considered proper readings for a "Good" system.

4. Press the Preset button located at the top of the system to set that preset to test similar systems as the system connected to the tester.

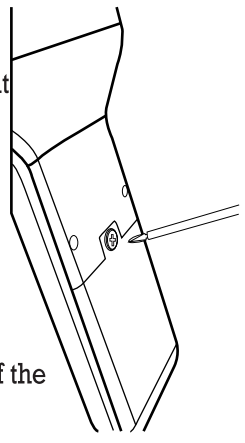
5. The display will give you an indication that the Preset has been set and the Microphone and Speaker readouts will indicate that they are both "GOOD".

XABH-9000 Handheld ALSE Tester

Care and Maintenance

The XABH-9000 is intended to be stored and operated within the normal conditions found in a life support equipment work room. The tester should not be stored outdoors or in an aircraft or helicopter. It can be operated outdoors when desired but should not be directly exposed to rain or snow.

Check the three AA batteries at least every 30 days to ensure that no leakage has occurred from the batteries installed. This would cause damage to the battery compartment and battery terminals. Keep tester stored in the supplied case to ensure the best protection from debris or damage. Calibration of the system is not required.



General Tips for Tester Use

- Operation can be outdoors in conditions between -25 degrees C (-13 degrees F) and +71 degrees C (160 degrees F)
- Storage should be within the prescribed storage conditions for Aircrew Flight Equipment to increase lifespan of system, but the system can be stored in temperatures +/- 10 degrees C from the operating condition range.
- Do not immerse the tester in any type of liquid
- Avoid direct exposure to rain and snow.
- Keep free of dust and dirt
- Check batteries for leakage around every 30 days
- Use supplied storage case when tester is not in use
- Check that accessory cable contacts are free and clear of debris
- Do not clean tester with solvents, a damp cloth can be used to wipe the tester clean
- Contact ProFlightGear.com if you have any issue or unresolved questions about the tester.

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Troubleshooting Matrix

Microphone	
Display Reading	Indicates
OK	[**only when using presets**] No Errors
Mic Open	Microphone is disconnected, bad microphone, disconnected cable, or bad connector wiring
Mic Ohms Bad	[**only when using presets**] Dynamic microphone ohms deviates more than +/- 30%
Mic Unknown	Cannot Determine Microphone Type
Speaker	
Display Reading	Indicates
OK	[**only when using presets**] No Errors
Spkr Open	speaker is disconnected, likely disconnected cable or
Spkr Ohms	**[only when using presets]** speaker resistance deviates more than +/-20% from expected
Helmet/Headset Mounted Volume Control **can be tested in SPKR Test - Adjust volume control, low volume speaker readings will increase, high volume speaker readings with decrease**	
Both Microphone and Speaker	
Display Reading	Indicates
Mic & Spkr Bad	**[only when using presets]** some other error involving both the microphone and speakers
Earphone Accessory Cable Accessory	
Type Earphone	Normal Range
P.A.C.E	12 +/- 5 Ohms (FY2021 cable version or newer)
P.A.C.E	Prior to FY2021 cable version 30 +/- 5 Ohms
A.C.C.E.S.	45 - 88 Ohms (Cable Version Dependent)
C.E.P.	60 +/- 5 Ohms

Scan QR Code For In-Depth Tester Manual