



DESCRIPTION AND FEATURES

This helmet tester allows the user to test a variety of communication systems (helmets or headsets) as well as individual components to ensure that they are working properly. The versatility to test either components or systems sets the XABH-9000 apart from other aircrew equipment testers. Now you can know if your bench stock components (stock microphones, speakers, etc...) are in working condition.

KEY FEATURES

- ✓ **SIMPLIFIED ROOT CAUSE TESTING OF MALFUNCTIONING EQUIPMENT:** The XABH-9000 helmet tester allows you to isolate your testing from the whole system (NORMAL setting) to the microphone or speaker by itself (MIC or SPKR Test). With a built-in microphone you can test the speakers by themselves using your own voice instead of relying solely on what the reading on the screen says. For testing microphones with the XABH-9000, the built-in speaker provides feedback from the microphone you are testing. The system will identify any microphone hooked up to it and be able to operate it, even if it requires bias power (i.e. electret microphones). These features vastly improve the ability to determine what is malfunctioning on a system and can isolate problems with the cabling versus the microphone or speaker. Such capability will make it far less likely that you dispose of a working component due to limited component isolation capabilities.
- ✓ **CUSTOMIZE THE XABH-9000 HELMET TESTER FOR THE EQUIPMENT YOU MAINTAIN:** The XABH-9000 helmet tester allows you to set up to three different presets so that you can tailor the PASS/FAIL criteria for up to three different systems in your aircrew equipment shop. The preset will capture the levels for the good system's speaker and microphone allowing quick GO/NO-GO checks of complete systems. Having multiple presets allows you cover helmets and/or headsets of different configurations within your shop.
- ✓ **CONNECTOR OPTIONS:** The XABH-9000 helmet tester uses a variety of connectors so that you can test out headsets, helmets, and earphones with different connection requirements. Contact Pro Flight Gear about the connectors that are available.



Tester is compact and portable



EPAC Test Adaptor

This adaptor allows you to test various in-ear comm systems to ensure speaker functionality separate of being plugged into helmet and/or comm systems.

CARE AND MAINTENANCE

The XABH-9000 helmet tester is intended to be stored and operated within the normal conditions found in a life support equipment work room. The system 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 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 case provided to ensure the best protection from damage. Calibration of the system is not required.

THREE OPERATING MODES

Normal Mode: In normal mode, the tester will analyze the microphone and speaker to provide an indication what the resistance of those items are. This gives the operator an idea of whether or not the microphone or speaker are within the operational limits of the particular devices. This mode does not support testing of the systems through the device microphone (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.

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.

PRICING

Item:	PFG Part Number:	NSN:	Price:
Handheld ALSE Tester with Earphone Test Accessory	PFG-XABH-9001-EPAC	4920-01-666-6577	\$1200.00

TROUBLE SHOOTING MATRIX

Microphone	
Display Reading	Indicates
OK	No errors Detected
Mic Open	Microphone is disconnected, bad microphone, disconnected cable, or bad connector wiring
Mic Shorted	Microphone Resistance is less than 2 Ohms, likely shorted cable or connector
Mic Wrong	[only when using presets] Not the expected type of microphone based on the preset
Mic Ohms Bad	[only when using presets] Dynamic microphone ohms deviates more than +/- 30% from expected
Mic Current Bad	[only when using presets] Electret microphone current deviates more than +/- 70% from expected
Mic Unknown	Cannot Determine Microphone Type
Speaker	
Display Reading	Indicates
Spkr Open	speaker is disconnected, likely disconnected cable or connector wiring
Spkr Shorted	speaker resistance is less than 2 ohms, likely shorted cable or connector
Spkr Ohms Bad	[only when using presets] speaker resistance deviates more than +/-20% from expected
One Spkr Bad	[only when using presets] speaker resistance is twice the expected value, likely one speaker bad or disconnected
Lines Shorted	both speaker and microphone read less than 2 ohms, likely bad cable or connector
Lines Bad	one line shorted, oneline open, likely bad cable or connector
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 Expected
P.A.C.E.	9 – 13 Ohms or 28 – 32 Ohms for Old Style Cable (Pre-2017)
A.C.C.E.S.	45 – 88 Ohms (Cable Version Dependent)
C.E.P.	6 – 10 Ohms