



XABH-9000 HANDHELD ALSE TESTER



USERS MANUAL

Aircrew Flight Equipment
Component/System 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 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.

Operating Modes

The Tester has 3 Modes for Operation:

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 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.

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.

Presets

There are three preset positions (PRESET A, PRESET B, PRESET C) on the tester that 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" indication based on the system's preset parameters:

1. To preset a system, ensure that 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."

Microphone

DISPLAY READING	INDICATES
OK	No errors detected
Mic Open	Microphone is disconnected, bad microphone, disconnected cable, or bad connector wiring.
Mic Shortened	Microphone Resistance is less than 2 Ohms, likely shorted cable or connector.
Mic Wrong	[PRESET ONLY] Not the expected type of microphone based on the preset.
Mic Ohms Bad	[PRESET ONLY] Dynamic microphone ohms deviates more than +/- 30% from expected
Mic Current Bad	[PRESET ONLY] 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	[PRESET ONLY] Speaker resistance deviates more than +/-20% from expected
One Spkr Bad	[PRESET ONLY] 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, one line open, likely bad cable or connector.

Both Microphone and Speaker

DISPLAY READING	INDICATES
Mic & Spkr Bad	[PRESET ONLY] Some other error involving both the microphone and speakers.