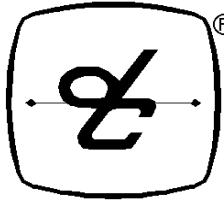


### Aviation Headset Functional Testing

Aviation headsets are functionally tested with a simple talk-listen check using a compatible aviation intercom.

1. Insert headset plug(s) into intercom jack (s).
2. Don headset and speak into microphone. You should hear yourself (sidetone) in both ears.
3. Cycle volume control(s) over full range while continuing to speak to ascertain proper control operation.
4. If you are testing a stereo headset on a monaural intercom you will hear audio in only the left (mic) side unless the stereo - monaural switch in the comm cord yoke is in the monaural position.
5. If no audio is heard you can isolate the problem to the microphone or earphone side of the headset by plugging a second known-good headset into the test intercom. This will allow the microphone and earphone circuits to be cross tested.
6. The communication functions of ENC headsets are tested exactly as in steps 1 through 5 above. The active noise attenuation function is independent of the communication signal paths.
7. To check for proper ENC operation provide operating power by way of batteries when using an XL module or a 12 to 28 volt source in the case of the XP module.
8. When the power is turned on you should hear a low level hiss in each ear. Room noise should quiet somewhat but may not be too noticeable unless there are significant low frequency components in the noise. Each side should be free of any oscillation or other undesirable sounds. If a problem is common to both sides suspect a power supply or wiring problem.



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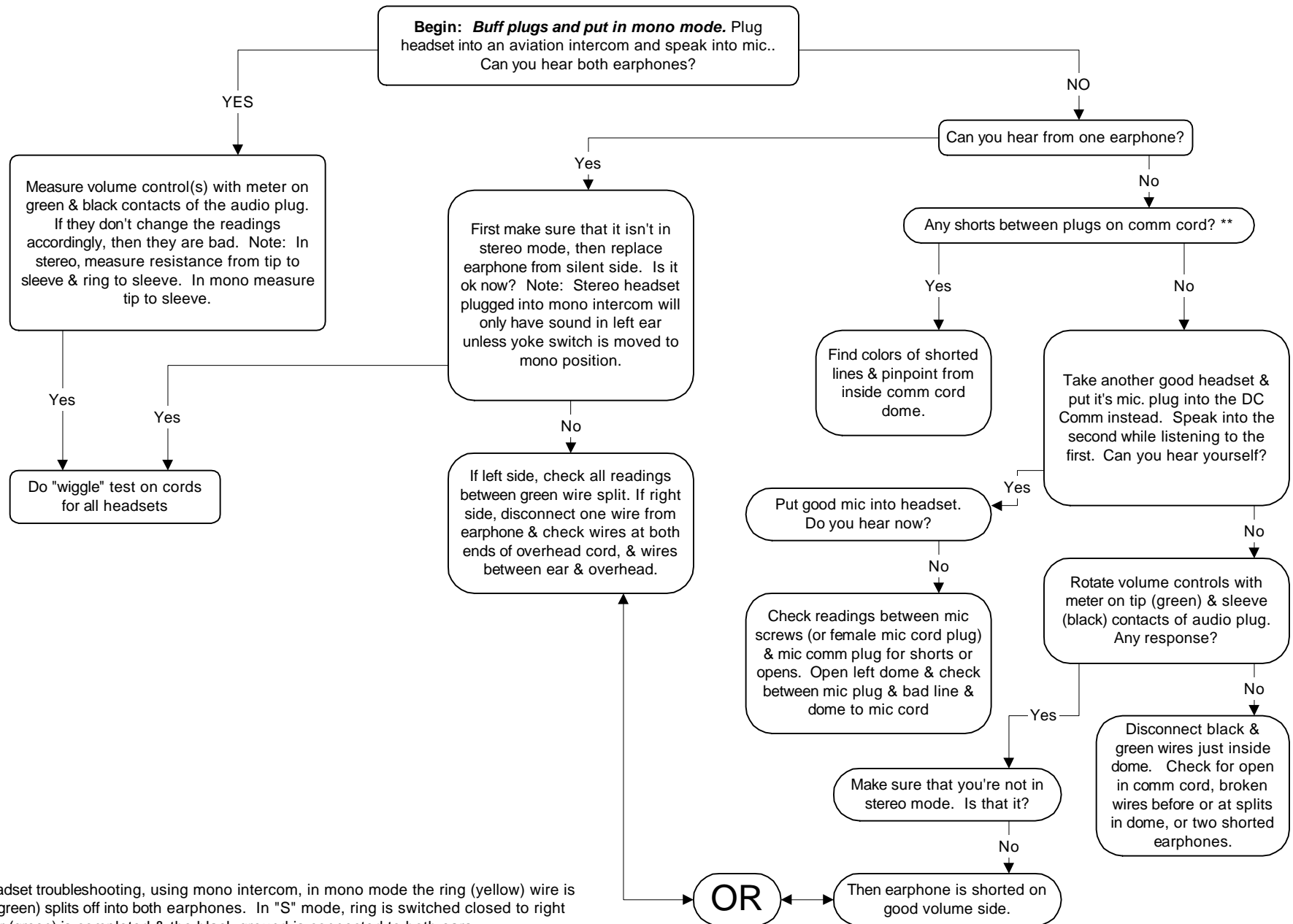
360 Franklin Street, Box 15054, Worcester, MA 01615-0054  
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## **Headset Problem Solving Guide**

<i>Problem</i>	<i>Possible Cause</i>	<i>Recommended Correction</i>
<b><u>Microphones</u></b>		
No Output	Defective Mic, Broken wire	Replace mic, cord or reconnect wire
Low Output	“ “	Replace mic
High Output	“ “	Replace mic
Mic Static	“ “	Replace mic
Intermittent Mic	Loose mic set screw or defective mic	Tighten mic set screws or replace mic
<b><u>Communication cords</u></b>		
Intermittent at plugs	Dirty plugs or broken wire at plugs	Clean plugs, see if problem is corrected, if not replace comm cord
Intermittent at dome	Broken wire in cord at dome	Replace comm cord
No output from headset	Broken wire somewhere in cord	Replace comm cord
Intermittent at yoke	Broken wire at yoke	Replace comm cord
<b><u>Mic cord</u></b>		
Intermittent mic cord	Broken wires at connector	Replace mic cord
<b><u>Earphones</u></b>		
No output	Defective earphone, broken wire	Replace earphone, replace cord or reconnect wire
Low output	“ “	Replace earphone
Earphone static	“ “	Replace earphone
Intermittent earphone	“ “	Replace earphone
Distorted output	“ “	Replace earphone
<b><u>Volume control(s)</u></b>		
Intermittent volume control	Defective volume control	Replace volume control
Only 1 earphone working	Broken wire	Resolder wire
Loose volume control	Loose nut	Tighten nut
<b><u>Mic booms</u></b>		
Broken flex boom	Defective adhesive, customer abuse	Replace boom
Broken wire boom	Defective boom	Replace boom
<b><u>Headband spring</u></b>		
Broken headband spring	Defective headband spring	Replace headband spring

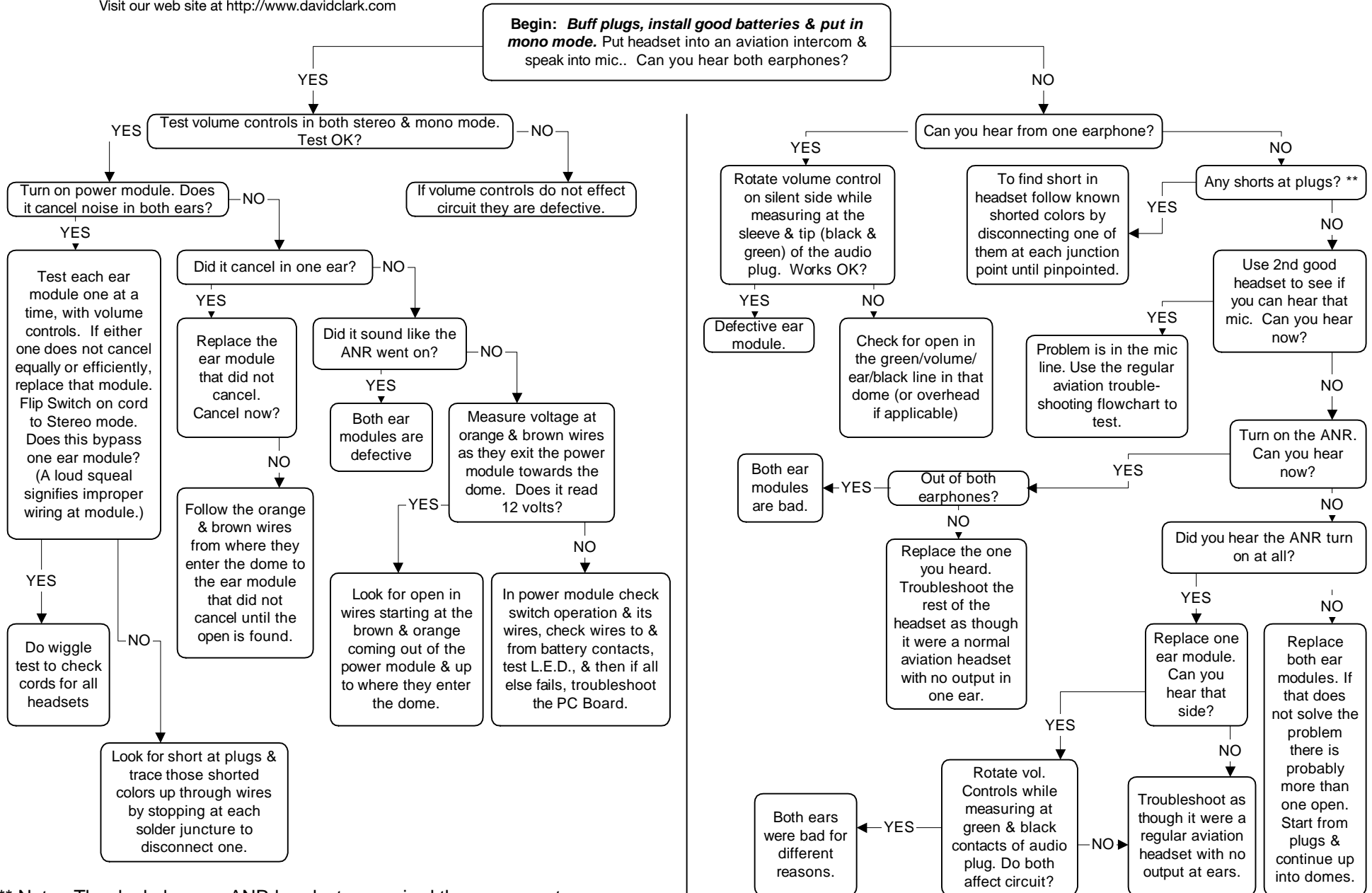
Each headset sent in for repair should have it's plugs cleaned, domes buffed or cleaned as best as they can, old ear seals, filters and any headpad that is worn out replaced.

## Trouble Shooting Chart Standard Noise Cancelling Headsets



\*\*For stereo headset troubleshooting, using mono intercom, in mono mode the ring (yellow) wire is open & the tip (green) splits off into both earphones. In "S" mode, ring is switched closed to right ear. The left ear (green) is completed & the black ground is connected to both ears.

## Trouble Shooting Chart Electronic Noise Cancelling Headsets



\*\* Note: The dual plugs on ANR headsets are wired the same as stereo. Also be aware that feedback from a bad com mic. can make the ear modules sound "tinny" or less efficient. Replace before swapping ear modules.