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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.



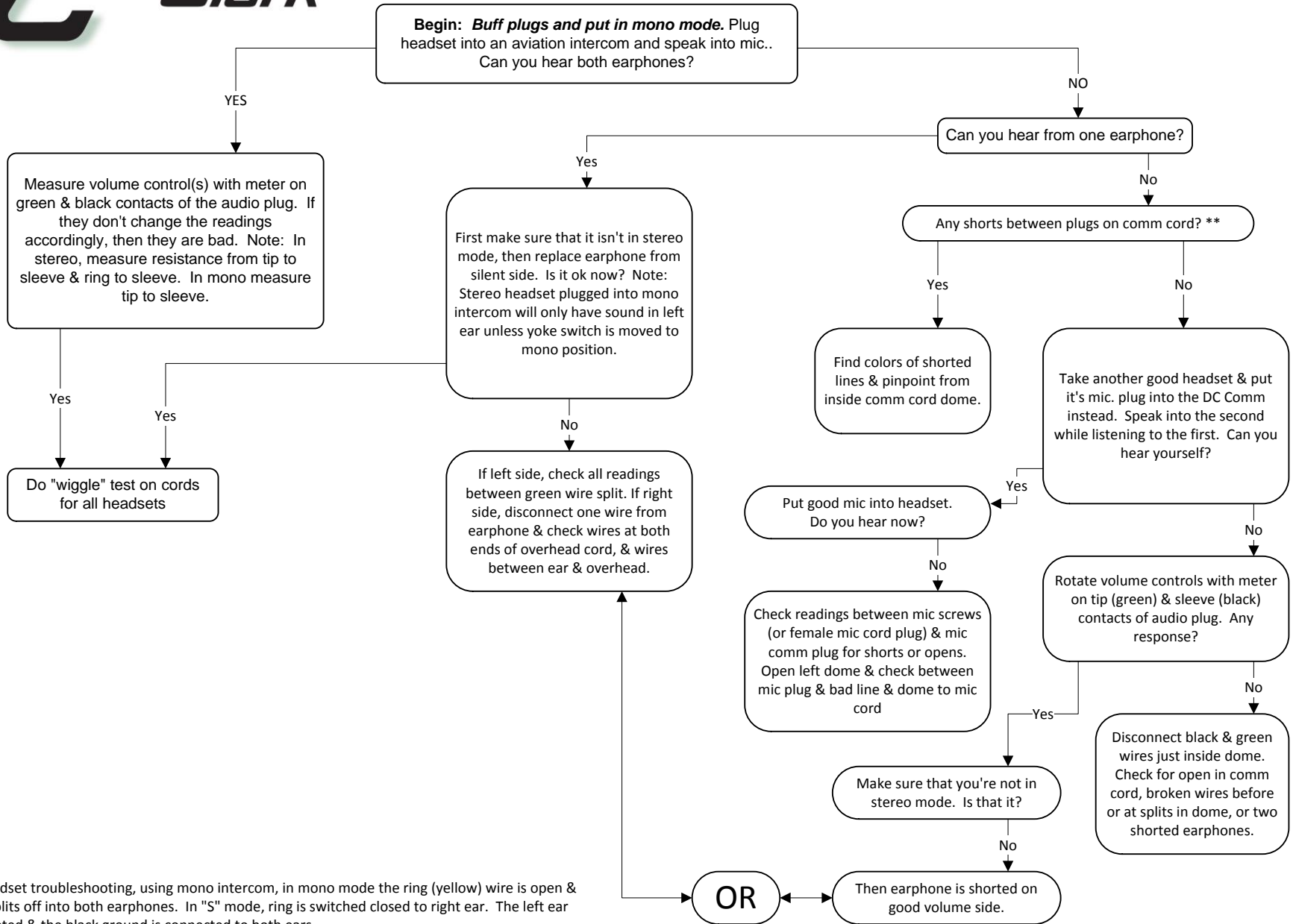
## Headset Problem Solving Guide

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



# Trouble Shooting Chart Standard Noise Cancelling Headsets

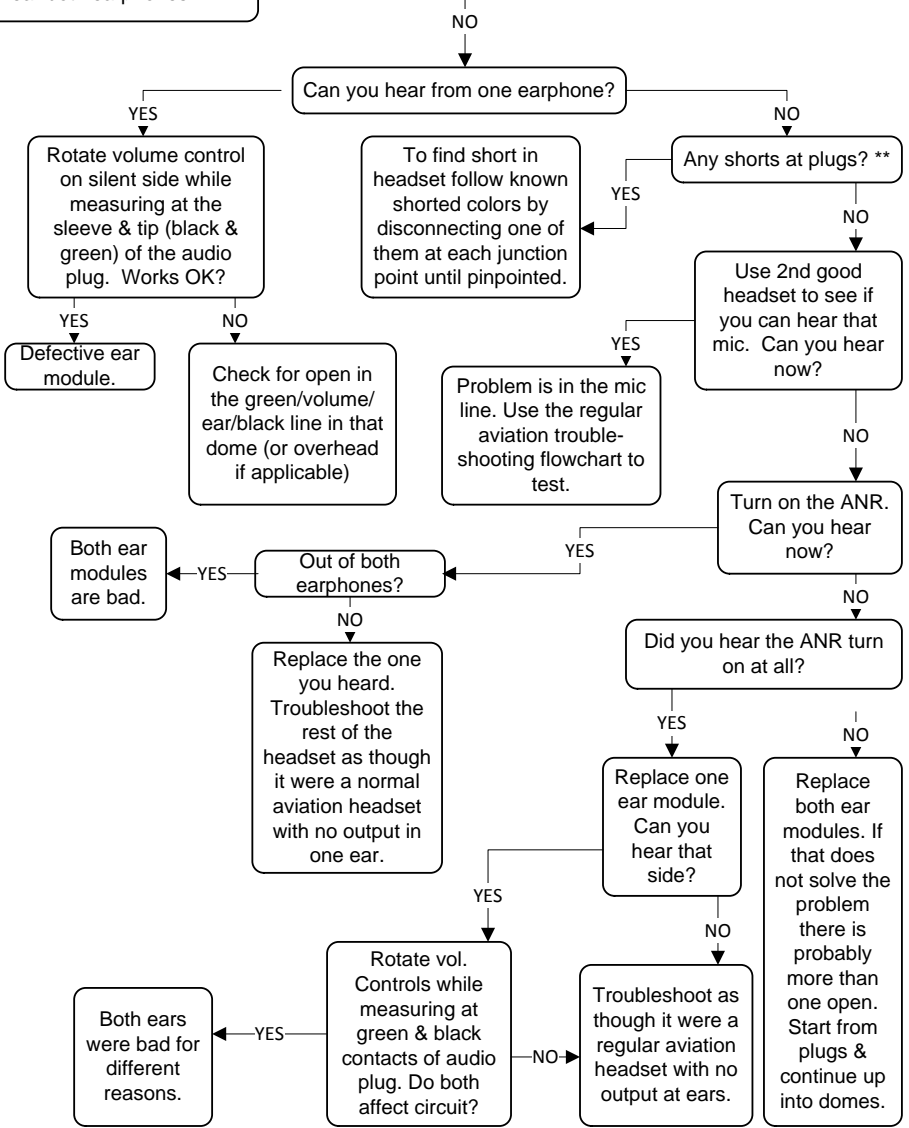
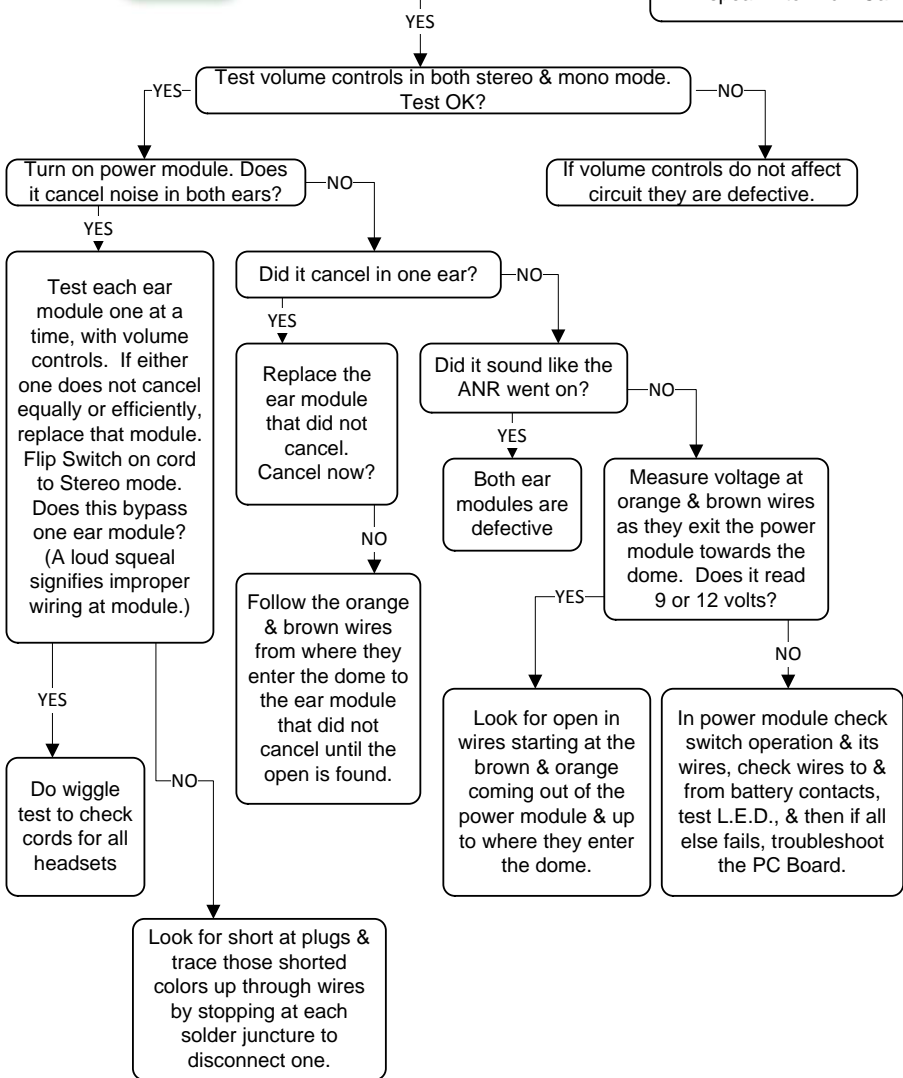


\*\*For stereo headset troubleshooting, using mono intercom, in mono mode the ring (yellow) wire is open & the tip (green) splits off into both earphones. In "S" mode, ring is switched closed to right ear. The left ear (green) is completed & the black ground is connected to both ears.



# Trouble Shooting Chart Electronic Noise Cancelling Headsets

**Begin: Buff plugs, install good batteries & put in mono mode.** Put headset into an aviation intercom & speak into mic.. Can you hear both earphones?



\*\* 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.