

Aurical HIT Test box verification procedure for Cochlear N7/N8 using the Phonak Roger Touchscreen

1. You will need the following items:
 - DCTEST4 lead
 - Cochlear Monitor Earphone Adaptor (Z544578)
 - 3.5mm mono plug to 3.5mm stereo socket adaptor
2. Connect these items together as shown.
3. Begin with finding a quiet space.
4. Ensure the processor batteries are charged sufficiently or if they are using disposable batteries fit new ones.
5. Carry out a visual inspection and listening check of the processors before test box measures.
6. Ensure that the Aurical HIT reference microphone has been calibrated.
7. Remove the coupler microphone from the middle socket and place it into the front socket of the accessory tray.
8. Attach the button receiver adaptor to the 2cc coupler microphone and then attach it to the coupler microphone.
9. Attach the button receiver on the end of the DCTEST4 lead to the adaptor on the coupler microphone.
10. Lift the platform in the test chamber and insert it into the middle socket.
11. Connect the Roger 20 to the processor then attach the Monitor Earphone Adaptor and then the battery.
12. Position the processor onto the raised platform so that it is facing towards the front speaker. You will need to use some Blu Tack to help hold it in place
13. Place the reference microphone as close as possible to the front microphone on the processor without it touching
14. Close the chamber lid
15. Select the side to be tested using the 'ear' symbol on the top tool bar
16. Click the test selector icon on the top toolbar and select 'RA verification CI N6 N7 Sonnet'.
17. Click on button 2 'CI 55'.

A curve will be produced with an input level of 55dB.
18. Open the chamber lid.
19. Place the processor on some sponge outside of the test chamber.
20. Set the Roger Touchscreen into 'Verification mode'.

21. Connect the Touchscreen to the Roger 20 receiver.
22. It is important to initially reduce the default output level of the receiver then gradually increase it to match curve 1. This is to ensure the receiver isn't set too loud. This is done using EasyGain.
23. Hold the transmitter next to the Roger receiver.
Tap on 'Settings' then tap on 'Advanced'.
Tap on 'Roger receiver settings' then 'EasyGain'.
Reduce EasyGain to – 8.
24. Position the Touchscreen on the raised platform
Ensure it is forward enough so that it doesn't foul on the foam on the chamber lid when the lid is closed
Position the reference microphone next to the top left microphone of the Touchscreen.
25. Close the chamber lid.
26. Click box 3 'RA+CI 55'.
27. A response curve with an input level of 55dB will run for the Roger system and processor combined.
It is likely the output level of the Roger receiver will need to be increased.
28. Remove the Touchscreen from the chamber.
29. Increase EasyGain one step then repeat curve 2.
30. Repeat this process until curve 2 matches curve 1 as closely as possible.
31. Click box 5 'RA+CI 80'. A curve will run with an input level of 80dB into the microphone.
This is the approximate level that will be presented to the Touchscreen microphone when worn correctly.
Curve 3 should be above curves 1 & 2.
For bilateral fittings repeat for the opposite processor.
Remember to select left or right using the ear symbol on the top toolbar.
32. Exit Verification mode on the Touchscreen and connect to the receiver.
33. Select 'File' and 'Save as' from the toolbar at the top of the screen.
Save the response curves in the pupil's folder or create a new folder if required.