

# Performing an RECD Measurement on FONIX® Hearing Aid Analyzers

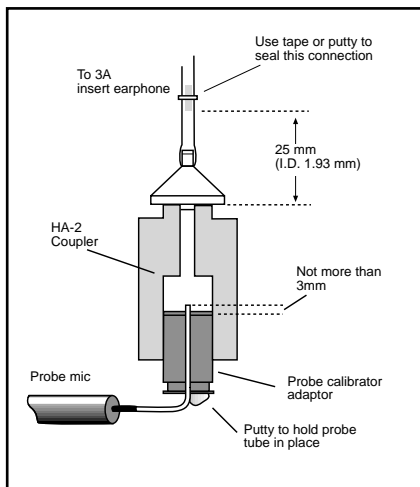
## 6500-CX

### SETUP

Press [START/STOP] to enter probe mode.  
Press [MENU].  
Set MODE to COMP/MAN.  
Set GAIN(G)/SPL to G/REF OFF.  
Select OPERATION PARAM.  
Press [START/STOP].  
Set SIGNAL LEVEL to 50 dB.  
Set SMOOTHING to LOG.  
Set OUTPUT LIMITING to 125 dB.  
Set NOISE REDUCTION to 16X.  
Set DATA CONVERSION to INS. GAIN.  
Press [MENU] twice to exit from menus and enter insertion gain screen.  
Connect insert earphone to 6500-CX by unplugging the probe speaker and plugging in the insert earphone.  
A 1/4" to 1/8" adapter may be needed.

### COUPLER

Thread probe tube through probe mic adapter. The probe tube should stick out less than 3 mm from end of adapter.  
Insert adapter into HA-2 coupler.  
Attach probe tube to probe microphone.  
Attach insert earphone plastic tip to the tubing of the HA-2 coupler.  
Press [START/STOP] to begin measurement and [START/STOP] again when satisfied.  
Press [UNASSISTED RESPONSE] to save curve.



### REAL-EAR

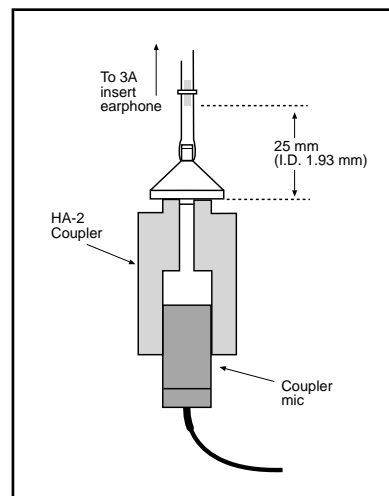
Insert probe microphone in client's ear. The larger reference microphone is not used in this measurement.  
Insert custom earmold or foam eartip and attach insert earphone.  
Press [START/STOP] to begin measurement and [START/STOP] again when satisfied.  
The curve in the top graph labeled "insertion gain" is actually the RECD. Press [DATA] to get numerical data.

## FP40

### COUPLER

Plug insert earphone into the external speaker jack on the back of the FP40. An adapter may be needed.  
Attach the larger coupler microphone to HA-2 coupler.  
Attach insert earphone plastic tip to the tubing of the HA-2 coupler.  
F5 to enter PROBE mode.  
F1 to enter MENU.  
F4 to enter calibrate mics.  
F7 to select HA2 ER3A.  
Press [START/STOP] to begin measurement.  
A WAIT message will appear on your screen. When this message disappears, the measurement has been taken and stored into permanent memory.  
F1 to exit menu.

**IMPORTANT NOTE:** This measurement will be stored in permanent memory until you store another measurement on top of it. From now on, you need only take the real ear measurement to get the RECD.



### REAL-EAR

Assuming you are in the probe screen, press F4 to enter target screen.  
F7 to enter probe-coupler screen.  
F3 to enter RECD mode.  
F3 to toggle to MEASURED RECD.  
Insert probe microphone in client's ear.  
Insert custom earmold or foam eartip coupled to the insert earphone into client's ear.  
Press [START/STOP] to perform measurement.  
Both the curve and the numerical data will appear on the screen.



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