2. Set the TSG volume

The volume of the TSG is set using the volume slider. The volume should be set to a level that provides relief, but does not completely mask the tinnitus. (Figure 3)

Note: The volume slider is in dBSPL.

Below is a suggestion on how to first fit the TSG. It uses the threshold of audibility as a starting point.

Figure 3:

Find the TSG threshold of audibility (three steps)

- Using the volume slider, turn up the volume until the patient reports that they can just barely hear the TSG white noise. This is the TSG threshold of audibility.
- Increase the volume slider until the patient reports they can no longer hear their tinnitus over the TSG sound. This is the level at which their tinnitus is completely masked. This is the minimum masking level (MML).
- Set the volume 5–10 dB above the threshold level. (Volume can be set above 10 dB if necessary but should not exceed the MML).

3. Set the TSG bandwidth

- Our TSG defaults to a broadband white noise setting. There are 4 sound preset options to choose from. Each option's frequency range can be customized to patient preference using the Range option. (Figure 4)

Figure 4:

4. Customize the TSG features according to patient preference

- Amplitude Modulation can be activated if the patient finds it to be comfortable. (Figure 5)
- Amplitude Modulation causes the TSG to fluctuate in volume, creating an "ocean-like" noise sequence. A Mild setting offers less fluctuation, whereas a Strong setting offers more fluctuation.
- Modulation Speed controls how quickly the volume fluctuations occur. A Slow setting allows more time between fluctuations, whereas a Fast setting allows less time between fluctuations. (Figure 5)
- Selecting 'Ear to Ear Synchronization' will enable ear-to-ear communication, ensuring the features of the TSG are automatically functioning symmetrically. (Figure 6)

Figure 5:

Figure 6:

5. Customize the Volume Control options

- The Volume Control options determine how the volume of the TSG will be controlled. Off is the default setting in TSG

For ReSound LiNX Quattro:

- Selecting "Stimulus Level" will reassign the function of the manual volume control to the TSG only for that program. (Figure 7).
- Selecting "Stimulus Level + Environment" will combine the use of these two features. It allows manual volume adjustments while the Environment features are active.

Figure 7:

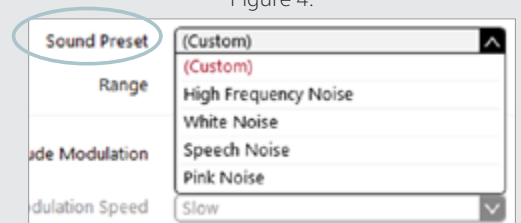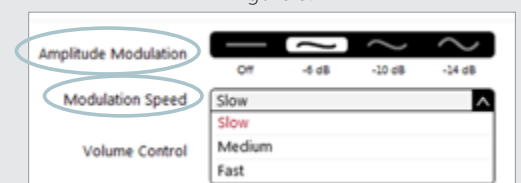**For ReSound LiNX 3D and ENZO 3D:**

- Selecting 'Volume Control' will reassign the function of the manual volume control to the TSG only for that program. (Figure 8)
- Selecting 'Environmental Steering' will allow the volume of the sound generator to automatically adapt to the listening environment, ensuring comfort in all situations.
- Selecting 'Volume Control + Environmental Steering will combine the use of these two features, allowing manual volume adjustments to override the Environmental Steering in any environment.

6. Activating Nature Sounds

- Nature Sounds can be used as an alternative to the standard TSG, by positioning the Nature Sounds tab to 'On'. (Figure 9)
- To activate a Nature Sound, click on the picture of the desired Nature Sound.
- Note: Selecting the same Nature Sound for both instruments in a binaural fitting will activate the Stereo effect. The stereo effect will not be applied if different Nature Sounds are selected between instruments.
- 'Show Advance Settings' (Figure 9) allows you to adjust the low, mid and high frequency bands of the Nature Sound. (Figure 10)
  Note: It is only recommended to use this if necessary.

7. Program and save

- To program the instruments and save to NOAH, click 'Done' in the lower right corner of the screen, and then click 'Save' in either the Fit screen or Summary screen. (Figure 11)

Tinnitus patients have great variance in their needs and preferences for successful tinnitus management. The information in this fitting guide is designed to serve as suggested starting points, and can be modified as needed for individual patients.
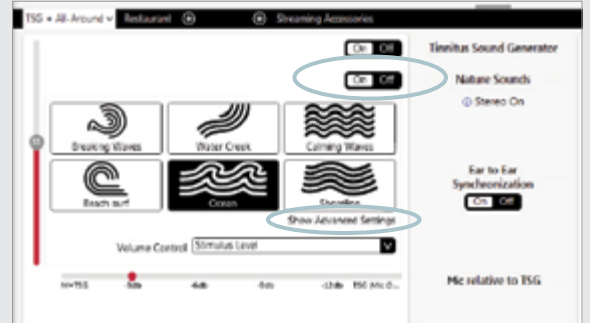
Figure 8:

Figure 9:

Figure 10:

Figure 11:

ReSound Smart Fit™
TSG fitting guide

The Tinnitus Sound Generator (TSG) is designed as a sound therapy tool for tinnitus management.

Notes:

- *The TSG volume slider is in dBSPL.*

- *The TSG settings overlayed on the audiogram can be displayed in dBSPL or dBHL.*

- *The binaural link option is not available for all features in TSG. Only Amplitude Modulation, Modulation Speed and Volume Control can be linked during the fitting.*

- *For a TSG only program ensure the HI Microphone option is turned 'Off'.*

1. Activate the TSG

- Select the program in which you want to activate TSG.

- Select the menu option in the upper right corner. (Figure 1)

- Under the Fitting heading, select Tinnitus Sound Generator. (Figure 1)

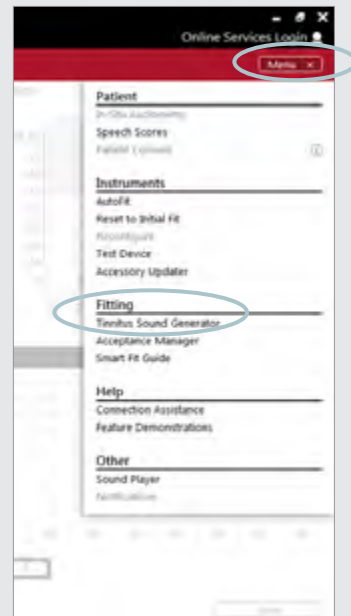- Turn the Tinnitus Sound Generator slider to 'On'. (Figure 2)

Figure 1:

Figure 2: