QUICKTIP

Troubleshooting Guide



Patient's Own Voice

Voice Sounds

- In a barrel/tunnel
- Echoes
- Hollow
- Like they have a cold/ears plugged

Inspire X Adjustments

- Decrease gain using the Occlusion Control
- Decrease Low Frequency Gain
- Decrease Moderate Gain at 1000 Hz and/or 1500 Hz

Other Considerations

- Occlusion may be due to the physical presence of the hearing aid and not because of amplification; to test, turn off the hearing aid and have the patient speak
 - 1. Report persists—issue is occlusion; address with acoustic modifications
 - Enlarge vent diameter
 - Shorten and/or taper canal
 - Remake hearing aid or earmold with different canal length
 - 2. Report resolved—issue is amplification; address with response adjustments

Voice Sounds

Muffled

Inspire X Adjustments

- Increase Moderate Gain at 1000 Hz and/or 1500 Hz
- Increase Loud Gain
- Increase Maximum Output
- Increase High Frequency Gain
- Decrease Low Frequency Gain

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Voice Sounds

- Distorted
- Crackles

• Unnatural/like a megaphone

Inspire X Adjustments

- Decrease Moderate Gain at 1000 Hz and/or 1500 Hz
- Decrease Loud Gain
- Decrease Overall Output

Other Considerations

• If decreasing Overall Output worsens sound quality, consider increasing Overall Output

Hearing in Noise

Patient has Difficulty

• Understanding speech in background noise

Inspire X Adjustments

- Verify Adaptive Directionality is enabled via Sound Manager screen
- Enable Directionality Plus via Sound Manager screen Details link
- Consider enabling a Fixed Directional microphone response
- Increase Speech in Noise Control via Sound Manager screen
- Increase Overall Gain at 1000 Hz and/or 1500 Hz, then higher frequency gain
- Decrease Soft Low Frequency Gain
- Turn Immersion Directionality off if soft speech sounds are muffled

Patient Hears

 Voices at a distance better than near

Patient Reports

- Low tolerance for noise
- Background noise too loud

Inspire X Adjustments

- Increase Overall Gain at 1000 Hz and/or 1500 Hz
- Increase Overall Soft Gain
- Decrease Speech in Noise setting via the Sound Manager screen

Inspire X Adjustments

- Decrease Overall Output
- Verify Adaptive Directionality is enabled via Sound Manager screen
- Click on the Details link to enable Directionality Plus via Sound Manager screen
- Increase Speech in Noise setting via the Sound Manager screen
- Increase Transients setting via Sound Manager screen

Other Considerations

- If device does not have directional microphones, consider recommending a directional device
- Consider enabling Edge Mode via the User Control screen
- Consider 2.4 GHz Remote or Thrive Hearing Control app with Comfort Boost engaged to make the Speech in Noise control more aggressive
- Consider 2.4 GHz remote microphone options to improve signal-to-noise ratio
- Consider turning Speech in Noise off for severe-to-profound hearing loss

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Intelligibility

Reports

- I hear better without my hearing aids
- Speech is unclear/unnatural
- Speech in quiet is not clear
- TV/Radio is not clear

Speech Sounds

Muffled even when in quiet

Inspire X Adjustments

- Increase Overall Gain at 1000 Hz and/or 1500 Hz
- Decrease Speech in Noise setting via the Sound Manager screen
- Set Speech and Noise for Less Activity via Sound Manager screen
- Increase Low Frequency Gain for Streamed Memory

Inspire X Adjustments

- Decrease Quiet setting via the Sound Manager screen
- Ensure Immersion Directionality is Off via Sound Manager screen Details link
- Increase Soft and Moderate Gain

Other Considerations

- Consider a customized TV memory via the Thrive app
- Consider adding a 2.4 GHz TV Streamer
- Consider enabling Edge Mode via the User Control screen
- Consider 2.4 GHz Remote Microphone options to improve signal-to-noise ratio
- May need to counsel on fact that poor speech clarity may be due to poor speech discrimination

Other Considerations

- Quiet adjusts expansion and low-level noise reduction to ensure the hearing aids are quiet in quiet environments
- Consider enabling Edge Mode via the User Control screen

Streamed Input

Reports

• Streamed input doesn't have enough bass

Reports

 External environment is louder than the streamed signal

Loudness

Overall Too Loud

- Voices too loud
- All sounds too loud
- Harsh/too loud

Inspire X Adjustments

- Ensure a Stream Boost memory is enabled
- Ensure Auto Streaming is enabled in the Thrive app for 2.4 GHz products
- Increase Gain for Low Frequencies
- Increase Output for Low Frequencies

Inspire X Adjustments

• Mute the hearing aid microphones

Other Considerations

- Consider a customized TV memory via the Thrive app
- Consider adding a 2.4 GHz TV Streamer
- Consider enabling Edge Mode via the User Control screen

Other Considerations

- Consider adjusting the streamed vs microphone input ratio via the Thrive app
- Consider enabling Edge Mode via the User Control screen

Inspire X Adjustments

- Change Experience Level to provide less gain (3 to 2 or 2 to 1)
- Decrease Overall Gain above 1000 Hz
- Decrease Gain using Occlusion Control
- Decrease High Frequency Loud Gain

Other Considerations

- May need to start with lower gain settings than the prescriptive target recommends
- Patient may be unaccustomed to amplification or may be accustomed to lower gain devices
- May need to consider a different fitting formula
- Compression ratios are increased as the curves move closer together; decreased as the curves move farther apart

Other Considerations

- Ensure Best Fit is using e-STAT fitting formula
- Enter pure tone UCLs for at least 500 Hz and 3000 Hz to personalize and help optimize the output settings
- Utilize Speech Mapping to identify frequencies causing discomfort
- Compression Ratios are increased as the curves move closer together; decreased as the curves move farther apart

Other Considerations

- Utilize Speech Mapping to verify audibility
- Patient may not perceive the aid as being loud enough depending on previous hearing aid experience
- Compression Ratios are increased as the curves move closer together; decreased as the curves move farther apart
- Quiet adjusts expansion and low-level noise reduction to ensure the hearing aids are quiet in quiet environments

Loudness Comfort

- Sounds are painful
- Clattering dishes too loud
- Running water
- Other environmental sounds too loud

Overall Too Soft

- Voices too soft
- All sounds too soft
- Hearing aids too soft

Inspire X Adjustments

- Increase Transients setting via the Sound Manager screen
- Decrease High Frequency Loud Gain
- Decrease Overall Output
- Decrease Overall Loud Gain
- Increase Machine Noise setting via the Sound Manager screen

Inspire X Adjustments

- Increase Overall Gain
- Increase Overall Output
- Increase Overall Soft Gain
- Increase Overall Moderate Gain
- Increase Low Frequency Overall Gain
- Decrease Quiet setting via the Sound Manager screen

Sound Quality

Noisy

- Hearing aids are noisy
- Refrigerator hum too loud
 Hearing aids are noisy in quiet environments

Noisy

Hearing aids noisy in quiet
 venues like a library or quiet cafe

Pumping

- Hearing aids cut in and out
- Hearing aids cut in and out when patient speaks
- Loud sounds fade in and out

Shutting Down

- Hearing aids shut down with loud sounds
- Hearing aids cut out when patient speaks
- Loud sounds fade in and out

Transient Sounds are

Bothersome

Transient Sounds are

Too Soft/Unnatural

Inspire X Adjustments

- Increase Quiet setting via Sound Manager screen
- Decrease Soft Gain at 750 Hz and below
- Decrease Overall Soft Gain

Inspire X Adjustments

- Increase Quiet setting via Sound Manager screen
- Decrease Soft Gain at 750 Hz and below
- Decrease Overall Soft Gain

Inspire X Adjustments

- Increase Overall Loud Gain
- Decrease Compression Ratios
- Decrease Machine Noise setting via Sound Manager screen

Other Considerations

 Quiet adjusts expansion and low-level noise reduction to ensure the hearing aids are quiet in quiet environments

Other Considerations

- Quiet adjusts expansion and reduces low level noise to ensure the hearing aids are quiet in a quiet environment
- Consider enabling Edge Mode via the User Control screen

Other Considerations

- Compression Ratios are increased as the curves move closer together; decreased as the curves move farther apart
- Adjust time constants for Machine Noise to slower, if available

Inspire X Adjustments

- Decrease Transients setting via the Sound Manager screen
- Decrease Compression Ratios
- Increase Overall Output/MPO
- Increase Overall Gain
- Increase Overall Soft Gain
- Increase Overall Loud Gain

Inspire X Adjustments

Increase Transients setting via Sound Manager screen

Inspire X Adjustments

Decrease Transients setting via Sound Manager screen

Other Considerations

• Compression Ratios are increased as the curves move closer together; decreased as the curves move farther apart

Other Considerations

Consider turning off for severe-to-profound hearing loss

Other Considerations

Consider turning off for severe-to-profound hearing loss

Sound Quality (Continued)

Sounds areHollowMuffled	 Inspire X Adjustments Decrease Loud Gain at 500 Hz and 750 Hz Increase Moderate Gain at 1000 Hz and/or 1500 Hz Increase Moderate High Frequency Gain 	Other Considerations Increase Vent Size and update Acoustic Options to match hearing a
Sounds areSharpTinny	 Inspire X Adjustments Increase gain between 2000 Hz-4000 Hz, then increase gain at 750 Hz Increase Low Frequency Gain Decrease Overall Output above 1000 Hz Increase Speech in Noise Increase Compression Change Experience Level to provide less gain (3 to 2 or 2 to 1) Consider enabling the Automatic feature within Experience Manager 	 Other Considerations Utilize Speech Mapping or Verify Comfort to identify areas of sharpness Compression Ratios are increased as the curves move closer togeth decreased as the curves move farther apart Consider Best Fit using a different fitting formula Patient's auditory perception may be distorted due to long-standing high-frequency hearing loss; counseling is key
Music Background Music • Not full/robust enough	 Inspire X Adjustments Increase the Auto Music setting via Sound Manager screen 	 Other Considerations Consider creating a dedicated Music Memory for improved music sound quality Consider use of 2.4 GHz streaming accessory Consider enabling Edge Mode via the User Control screen

Background Music

- Too dominant
- Unexpected fluctuations

Music Sounds

• Too tinny in the Music Memory

Music Sounds

 Too much bass in the Music Memory

Inspire X Adjustments

• Decrease the Auto Music setting via Sound Manager screen

Inspire X Adjustments

- Decrease treble via QuickFit screen
- Increase bass via QuickFit screen

Inspire X Adjustments

- Decrease bass via QuickFit screen
- Increase treble via QuickFit screen

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Other Considerations

- Consider creating a dedicated Music Memory for improved music sound quality
- Consider use of 2.4 GHz streaming accessory
- Consider enabling Edge Mode via the User Control screen

Other Considerations

- Consider the Fine-Tuning screen for patients who require very discrete frequency-specific adjustments
- Consider use of 2.4 GHz streaming accessory
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Feedback

Hearing Aids

- Whistle
- Chirp

Inspire X Adjustments

- Initialize feedback cancellation with hearing aid in the ear
- Reduce Adaptive Feedback Cancellation Sensitivity (High to Low or Low to Off) via the Feedback Cancellation screen
- Reduce Overall Gain

Other Considerations

- Manage acoustic options for better fit and positioning of the hearing aid in the ear
- Utilize Speech Mapping to identify feedback peak and decrease gain at peak
- Feedback cancellation needs to be re-initialized any time the acoustic characteristics of the hearing aid are changed (e.g. shell modification, new earmold)

Other Considerations

- Manage acoustic options for better fit and positioning of the hearing aid in the ear
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Hearing Aids

• Sound warbly with own voice or other inputs

Inspire X Adjustments

- Initialize feedback cancellation with hearing aid in the ear
- Reduce Adaptive Feedback Cancellation Sensitivity (High to Low or Low to Off) via the Feedback Cancellation screen