### **Beltone Electronics**

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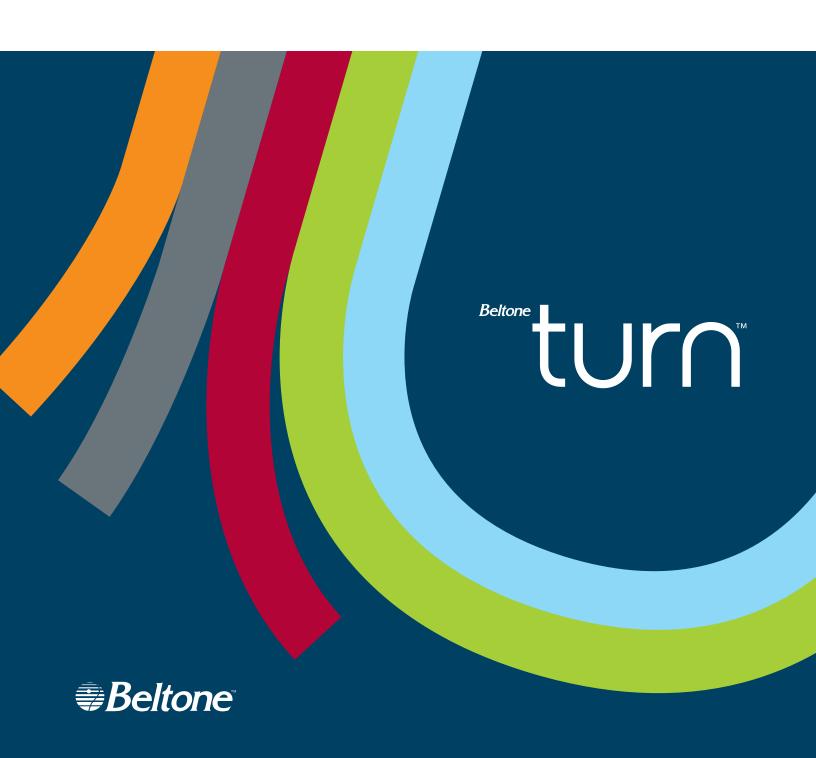
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# Advanced "Trimmer" Digital BTEs



Introducing Beltone TURN

# The ease of a trimmer product. The benefits of digital sound.

#### Small and attractive

Beltone TURN is a very attractive trimmer-based hearing solution – in every sense. It lets you provide your patients with a high-quality digital hearing instrument.

Your patients will enjoy natural sound housed in reliable, quality hardware. Plus, you'll be able to fit many different types of hearing losses, ranging from moderate to profound.

### Advanced technology. Easy to use.

Beltone TURN gives you digital features, so you can provide all the essentials of a top-quality hearing solution.

Beltone TURN also offers a manual volume control and simple "one-touch" switching between programs.

These features guarantee your patients great sound quality, comfortable listening and ease-of-use.

### Simple to fit anytime, anywhere

Just turn the trimmers and you'll have access to the benefits of the digital world.



TURN BTE products have up to three trimmers to choose from, making the fitting easy and flexible.

Small and attractive

## Take the right TURN

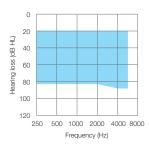
Beltone TURN comes in 3 different BTE options. Beltone TURN is ideal for both new and experienced hearing instrument users, as well as for first time digital users.

The trimmer selections available for Beltone TURN (depending on the model) are:

- Maximum Power Output (P)
- Low Frequency Cut (L)
- High Frequency Cut (H)

### **BTE** TURN 75 (TN1T75)

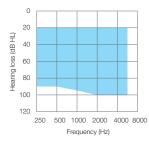




Max output (2cc)	126
Peak gain (2cc)	54
Push button	Yes 1-Basic 2-Noise Reduction
Analog VC	Yes
Colors	1
Trimmer	L
Telecoil	No

### PBTE TURN 85 (TN3T85)

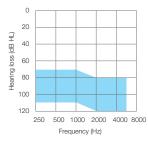




Max output (2cc)	133
Peak gain (2cc)	65
Push button	Yes 1-Basic 2-Noise Reduction 3-Telecoil
Analog VC	Yes
Colors	3
Trimmer	P, L, H
Telecoil	Yes

### SPBTE TURN 95 (TN3T95)



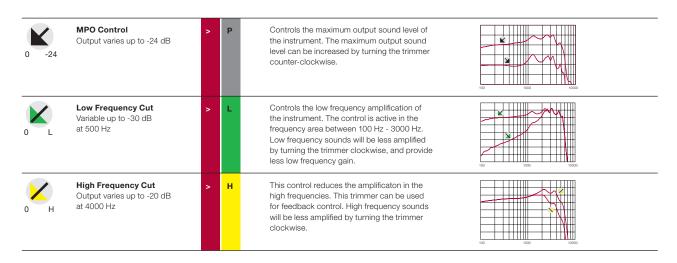


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81
Yes 1-Basic 2-Noise Reduction 3-Telecoil 4-DAI
Yes
3
P, L, H
Yes
Yes

Simple to fit anytime, anywhere

# TURN the trimmers to fit anyone, anywhere - all you need is a screwdriver

You don't need cables or computers to fit Beltone TURN. All you need is a screwdriver. And, with that screwdriver, you can quickly adjust the trimmers to give your patients the best hearing solution. To make it even easier for you, each trimmer has a unique color, so you always know which trimmer is the right one to turn to make the changes you want.



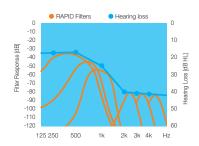
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Trimmer position					
BTE TURN 75	L	65-80	60-65	45-60	20-45
PBTE TURN 85	Р	95-100	80-95	60-80	50-60
	L	80-95	75-80	60-75	45-60
	Н	85-100	75-85	60-75	45-60
SPBTE TURN 95		90-120	80-90	80	
	L	105-110	95-105	80-95	70-80
	Н	95-120	85-95	80-85	

Advanced technology. Easy to use.

### Take a look inside

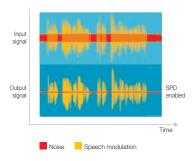




### Digital signal processor:

A combination of frequency and time domain signal processing allows for:

- Accurate frequency response shaping
- Very low processing delay
- Excellent sound quality
- Multi-channel processing

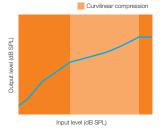


### **Noise reduction – Speech Pattern Detection:**

Speech usually has a higher degree of modulation than environmental or background noise. Speech Pattern Detection continuously analyzes modulation in all channels.

When a drop in modulation is detected, the system activates a compressor that reduces gain for low-modulated noise. Meanwhile, high-modulation speech is still being detected and amplified in order to allow your patient to understand speech in noisy situations. The benefits are:

- Minimized disturbance from background noise
- More comfort with less listening effort
- Preserved speech signal when speech modulation is present



#### **Curvilinear WDRC compression:**

With curvilinear WDRC - Wide Dynamic Range Compression - you can make sure that your patient can hear both soft and louder sounds comfortably and naturally. Curvilinear WDRC ensures that louder sounds are amplified less than softer sounds.

In combination with a proven set of attack and release times, curvilinear WDRC provides a more natural loudness growth. Beltone TURN also provides a manual volume control, which gives your patient complete control over the loudness level. Benefits are:

- Natural sound experience
- Optimal use of the hearing range
- Control of loudness level

## Fine-tuning guide

Every patient has their own preference about how they want their amplification set. With the Beltone TURN trimmers, you can fine-tune the sound, so your patients get what they prefer.

The trimmer can be turned clockwise or counter-clockwise to regulate the settings.

### Most common complaints:

### Solution:

Complaint of too loud	>	Turn MPO clockwise
Complaint of 'boomy' bass sound	>	Turn low frequency trimmer clockwise
Complaint of 'tinny' sound	>	Turn high frequency trimmer and MPO clockwise



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Complaint	Specifies	MPO Control	Low Frequency Cut	High Frequency Cut	Volume Control	
Too soft	Cannot hear high-pitched sounds (telephone ringing).				Up	
	The Beltone TURN is too soft compared to user's previous instrument.				Up	
	The user has a middle ear problem and finds Beltone TURN has too little amplification.	$\sim$			Up	
Too loud	Sounds in general are too loud.				Down	
	High-pitched sounds (dishes rattling, paper crinkling) are too loud.			$\overline{}$		
Speech	Own voice is boomy, dull or hollow.					
	Voices are too sharp.					
	Speech in noise is difficult to understand.					
Feedback	Feedback occurs when used in quiet environments.			$\overline{}$	Down	
	Feedback squeal occurs often during use.				Down	
	Other ways to prevent feedback: Decrease ear mold ventilation or tighten ear mold fit.					

# Beltone TM