Peltor™ WS™ ProTac™ XP

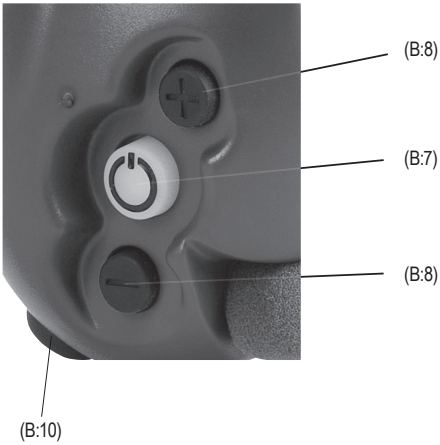
MT15H7*WS5**

The Sound Solution

CE

PELTOR™

(B)


(B:8)
(B:7)
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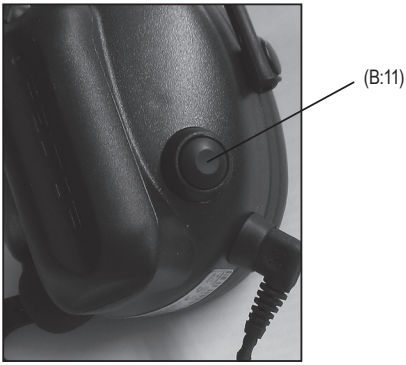
(B:10)


(B:11)

(B:5)
(B:1)
(B:2)
3M
PELTOR
WS ProTac XP
(B:8)
(B:6)
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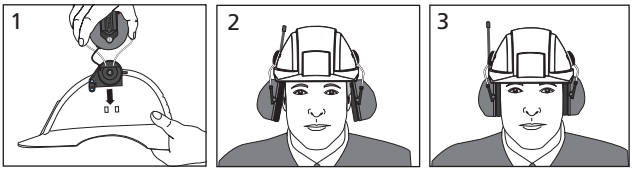
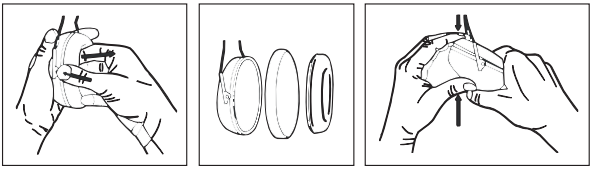
(B:3)
(B:9)
(B:7)
(B:4)

(C)

(D)



(E)



(F) MT15H7P3*WS5**

Frequency (Hz) [2]	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB) [3]	17.2	18.6	23.2	30.8	35.4	35.5	37.0	34.2
Std deviation (dB) [4]	3.8	2.7	2.7	4.4	2.5	4.2	3.2	3.7
Assumed Protection Value (dB) [5]	13.4	15.9	20.4	26.3	32.9	31.2	33.8	30.5

SNR=31 db H=32 db M=29 db L=22 db

1) 345g

MT15H7A*WS5**

Frequency (Hz) [2]	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB) [3]	19.2	17.4	24.0	31.9	34.4	35.1	37.0	35.1
Std deviation (dB) [4]	4.0	2.8	2.9	3.0	2.6	4.3	4.0	3.2
Assumed Protection Value (dB) [5]	15.2	14.5	21.1	28.9	31.9	30.8	33.1	32.0

SNR=31 db H=32 db M=29 db L=22 db

1) 352g

MT15H7B*WS5**

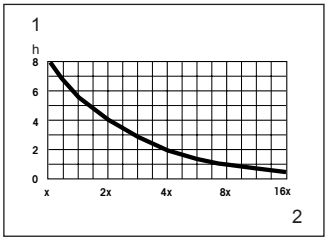
Frequency (Hz) [2]	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB) [3]	17.0	15.6	21.8	30.8	32.7	33.6	36.4	34.9
Std deviation (dB) [4]	3.8	3.8	3.5	2.9	2.9	2.5	3.3	2.4
Assumed Protection Value (dB) [5]	13.2	11.8	18.2	27.9	29.8	31.1	33.1	32.4

SNR=30 db H=32 db M=27 db L=19 db

1) 352g

G

Input signal / usage time



Standards & Approval

R&TTE
EN 300 328 v1.7.1
EN 60950-1 :2006 + A1:2010 + A11:2009 + A12:2011
EN 301 489-1 v1.8.1
EN 301 489-17 v2.1.1

FCC
FCC 15.247 (Title 47 CFR chapter I part 15 subpart C)
FCC 15b (Title 47 CFR chapter I part 15 subpart B)

IC
RSS-210
ICES-103

Bluetooth
V. 2.1

K

1) Helmet Manufacturer	2) Helmet Model	3) Test Report	4) Attachment	5) Electronic protectors Size ranges: S=small, N=medium, L=large
				MT15H7P3*WS5*
Auboueix	Brennus	95484T01	F	SNL
Auboueix	Fondelec	95484T01	F	SNL
Auboueix	Iris	95484T01	E	NL
Auboueix	Iris 2	26276T02	E	NL
Sofop Taliaplast	Oceanic	95484T01	E	NL
Sofop Taliaplast	Opus	95484T01	E	NL
Berendsen Safety,	Balance HD	26103T01 26104T01 26105T01 26106T01	N	SNL
Centurion	1125/ARCO plus	95484T01	H	SNL
Centurion	1100/ARCO type 2	95484T01	H	NL
Centurion	1540/ARCO	95484T01	A	NL
Evert Larsson	Robust	95484T01	E	SNL
Evert Larsson	Balance	95484T01	E	NL
Evert Larsson	Balance AC/3M 1465	95484T01	E	NL
Kemira	Top Cap	95484T01	A	SNL
LAS	LP2002	95484T01	E	SNL
LAS	LP2006	95484T01	E	SNL
MSA	Super V-Gard II	95484T01	E	SNL
MSA	V-Gard	95484T01	E	SNL
Peltor	G2000	95484T01	K, E	SNL
Peltor	G22 (BASIC SET)	95484T01 22004T01 21361T01 21331T01	E	SNL
Peltor	G3000	26276T01	E	SNL
Petzl	Vertex	26099T01 26100T01 26101T01 26102T01	E	SNL
Protector	Style 300	21046T01	E	SNL
Protector	Style 600	21046T01	G	SNL
Protector	Tuffmaster II	21046T01	E, G	NL
Römer	Bravo 2 Nomaz	95484T01	B	SNL
Römer	Marcus Top 2 Atlas Nomaz	95484T01	B	SNL
Römer	N2 Atlas Nomaz	95484T01	BB	SNL
Römer	Profi Expo	95484T01	E	SNL
Römer	Profi Nomaz	95484T01	E	SNL

1) Helmet Manufacturer	2) Helmet Model	3) Test Report	4) Attachment	5) Electronic protectors Size ranges: S=small, N=medium, L=large
				MT15H7P3*WS5*
Römer	Top Expo Atlas	95484T01	B	SNL
Schuberth	BEN	95484T01	BB	SNL
Schuberth	BER80/WPC80	95484T01	EA	SNL
Schuberth	BER S	26276T02	E	SNL
Schuberth	BOP R	95484T01	B	SNL
Schuberth	PIONIER	95484T01	B	SNL
Schuberth	SH 91/WPL 91	95484T01	EB	SNL
Schuberth	SW1	26099T01	EB	NL
UVEX	Airwing	95484T01	E	SNL
Voss	Inap 88	95484T01	E	SNL
Voss	Inap Master	95484T01	E	NL
Voss	Inap Star	26276T01	E	NL
Voss	Inap PCG	95484T01	G	NL

WS ProTac XP

GB	2-9	**IS**	130-137
AF	10-17	**IT**	138-145
AR	18-25	**KZ**	146-153
BG	26-33	**LT**	154-161
BLR	34-41	**LV**	162-169
CZ	42-49	**NL**	170-177
DE	50-57	**NO**	178-185
DK	58-65	**PL**	186-193
EE	66-73	**PT**	194-201
ES	74-81	**RO**	202-209
FI	82-89	**RU**	210-217
FR	90-97	**SE**	218-225
GR	98-105	**SI**	226-233
HE	106-113	**SK**	234-241
HR	114-121	**TR**	242-249
HU	122-129	**UA**	250-257

Declaration of Conformity 258-259

WS ProTac XP

The product(s) described in this user instruction is in conformity with the provisions set out in the Personal protective euqipment (PPE) directive 89/686/EEC and the Radio equipment and Telecommunications terminal equipment directive (R&TTE) 1999/5/EC. Thereby it fulfils the requirements for CE marking.

1. WHAT IS WHAT

(B:1) Headband wire (stainless steel)
(B:2) Two-point fastener (headband wire)
(B:3) Ear cushion (PVC foil and Polyester foam)
(B:4) Microphone for surround sound
(B:5) Headband padding (Thermoplastic Elastomer or Leather)
(B:6) Flex audio input
(B:7) On/Off/Mode
(B:8) VOL+, VOL –
(B:9) Speech microphone
(B:10) **Bluetooth** button
(B:11) PTT button (Flex Headset)

2. FITTING AND ADJUSTMENT

Over-the-head band (Fig. C)
Slide the cups out and place the headset over your ears so that the ear cushions fit snugly. (1)
Adjust the height of the cups by sliding them up or down whilst holding the headband in place. (2)
The headband should be positioned across the top of the head. (3)

Helmet attachment (Fig. D)
Snap the helmet attachment into the slot on the helmet (1).
The cups can be set in two positions: Ventilation position (2) or working position (3).
When in use, the cups must be placed in working position!
Press the headband wires inwards until you hear a click on both sides and ensure that the shell or the headband wires do not press against the lining or edge of the helmet, which could cause noise leakage.
Notice! Never place cups with humid foam on the helmet! (4)

Helmet mounted version approved combinations (Fig. K)
1. Helmet brand
2. Helmet model
3. Test report
4. Helmet attachment
5. Electronic protectors. (Size ranges: S=small, N=medium, L=large)

3. USAGE/FUNCTIONS

3:1 Switching the headset on and off

Press and hold the On/Off/Mode button (B:7) for two seconds to switch the headset on or off.

3:2 Bluetooth pairing

The headset can be paired with and connected to **Bluetooth** units that support the profiles: A2DP, HFP or HSP.

NOTE that you can only stream stereo sound/music from a unit (mobile phone, computer, etc.) that supports the A2DP **Bluetooth** profile.

- Ensure that the headset is charged and switched off.
- Press and hold the On/Off/Mode button **(B:7)** for five seconds.
  This puts the headset into pairing mode, which is confirmed by repeated voice message: “**Bluetooth** pairing mode”.
- Activate your telephone’s **Bluetooth** function and search for new units. After a few seconds “Peltor WS5” will appear on the screen.
- Select “Peltor WS5”.

- If the phone asks you for a password, enter: 0000
- Pairing is confirmed when you hear the voice message: “pairing complete”.
  Once the **Bluetooth** pairing function is activated it will automatically establish connection with the headset next time it is used with a confirmation voice message “connecting **Bluetooth**”, and then: “connected” when the units are connected.
  You can pair and store up to 3 units. The headset will automatically try to connect to the most recently connected unit first.

3:3 Managing phone calls

To manage phone calls, the headset must be paired with and connected to a mobile phone with **Bluetooth** capability, see **Bluetooth** pairing.

Answering calls

Incoming phone calls are indicated with a voice message “incoming call” in the headset.
Answer by pressing briefly on the **Bluetooth** button **(B:10)**.

Rejecting a call

Reject a call by pressing and holding the **Bluetooth** button for 2 seconds **(B:10)**.

Voice dial

Press briefly on the **Bluetooth** button **(B:10)**.

Redial

Press and hold the **Bluetooth** button for 2 seconds **(B:10)**.

3:5 Adjusting surround-sound volume

Increase volume. Press the (upper) + button **(B:8)**.
Decrease volume. Press the (lower) – button **(B:8)**.

3:6 Adjusting call volume (mobile phone)

You can adjust volume during a call by pressing the (+) or (–) buttons **(B:8)**.
Press the On/Off/Mode button **(B:7)** and then (+) or (–) buttons **(B:8)** to adjust the surround-sound volume during a call.

3:7 Adjusting streamed-music volume

You can adjust volume while streaming music by pressing the (+) or (–) buttons **(B:8)**. Press briefly on the On/Off/Mode button **(B:7)** and then (+) or (–) buttons **(B:8)** to adjust the surround-sound volume during music streaming.

3:8 Adjusting communication volume (Peltor WS Adapter)

You can adjust the communication volume by pressing the (+) or (–) buttons **(B:8)**. Press the On/Off/Mode button **(B:7)** and then (+) or (–) buttons **(B:8)** to adjust the surround-sound volume during a call.

3:9 Adjusting Remote volume (Peltor WS Ground Mechanic Adapter)

You can adjust volume to the pilot by pressing the (+) or (–) buttons **(B:8)**.

3:10 Changing settings in the Configure menu

The headset has a Configure menu where you can adjust settings.
To access the menu, press and hold the (–) and (+) buttons **(B:8)** for 2 seconds (with the headset switched on).
Access to the Configure menu is confirmed by a voice saying: “menu”. To change the settings, use the (–) and (+) buttons **(B:8)**.
To move on through the Configure menu, press briefly on the On/Off/Mode button **(B:7)**.
See quick guide for information on how the menu is set up and where the functions are located.

VOX

Voice-operated transmit
ON
OFF

Battery type

2xAA Alkaline, 1,5 V
Rechargeable (NiMH, 1,2 V)

Reset to Factory Default
Resets all functions to the factory settings.
Hold **Bluetooth** button to confirm **(B:10)**

3:11 Connecting external equipment via a cord (Flex -77 version)
External equipment can be connected via the Flex audio input **(B:6)**
For information on various cords, see Spare Parts/Accessories.

4. OTHER FUNCTIONS
- The last settings are stored when the headset is switched off.
- Low battery level is indicated by a voice message: “low battery”.
- Digital noise reduction on the boom microphone

5. IMPORTANT USER INFORMATION
The headset must be worn, adjusted, cleaned and maintained in accordance with this manual. As with any hearing protector, incorrect use or failure to follow the instructions supplied with this product could result in permanent disability due to exposure to noise.

This ear-muff is provided with level-dependent attenuation.
The wearer should check correct operation before use. If distortion or failure is detected, please refer to the instructions for replacement of the battery.

Warning! - Performance may deteriorate with battery usage.
Warning! - The output of the level-dependent circuit of this hearing protector may exceed the external sound level.

This hearing protector provides an entertainment audio facility. The the entertainment audio signal is limited to 82 dB(A) effective to the ear for a maximum input signal level over the Bluetooth protocol.
Warning! The audibility of warning signals may be impaired while using the entertainment facility.

NOTICE! 100% use of a proper hearing protector is the only certain protection from hearing loss.
In environments with more than 82 dB A-weighted noise level, you need to protect your hearing. The hearing receptors in your inner-ears may be irreparably damaged if you lift a cup of your hearing protectors for even a very short time in a noisy environment.
The use of a comfortable hearing protector, designed for the specific noise level in which it is used, is the best guarantee to that you will wear the hearing protector 100% of the time to protect yourself from permanent hearing loss.
For best protection, brush aside excess hair around your ears so the cushions fit snugly on your head. The arms/bands of any spectacles or goggles worn should be as thin as possible to allow the hearing protector to fit closely to the head.

IMPORTANT! For the best protection, brush aside hair around the ears so the ear cushions fit snugly against the head. Spectacle frames should be as thin as possible and fit close to the head to minimise acoustic leakage.

6. TECHNICAL DATA

6:1 Attenuation values, SNR (F)
The attenuation values and noise levels for the headset are tested and approved according to EN 352-1:2002, EN 352-3: 2002, EN 352-4: 2001, EN 352-6 : 2002, EN 352-8 2008. Testing performed and Certificate issued by Combitech AB, Box 168, SE-73223 Arboga, Sweden, ID#2279.

Explanation of the attenuation data tables:
1. Weight
2. Frequency (Hz)
3. Mean attenuation (dB)
4. Standard deviation (dB)
5. Assumed Protective Value (dB)

6:2 Sound exposure when using the Flex jacket (G)
The earphone level for music is measured at:
Max AUX input signal level = 1,5 V rms

AUX input signal level: 52 mV rms = 82dB

6:3 Criterion levels
A criterion level is the amount of noise (measured as A-weighted sound pressure) outside the hearing protector that gives 85 dB(A) inside. The noise level depends on the type of noise. **H** is high-frequency dominated noise, **M** is noise that is not dominated by any given frequency, and **L** is low-frequency dominated noise.
On WS ProTac XP the criterion levels that are defined in EN352-4 is: L = 98dBa M = 102dBa H = 116dBa

6:4 Battery type
Many types of AA 1.2–1.5V batteries can be used (NiMH, NiCd, Alkaline), but only NiMH and NiCd batteries can be recharged.

6:5 Battery life
The expected battery life may vary depending on the brand of batteries and the temperature in which the product is used. Low battery level is indicated by a voice saying: “low battery”. The headset functions will not work optimally if the battery is low.

2*AA Alkaline Battery Life time
Surround + **Bluetooth** (active) > 24h
Surround only + **Bluetooth** Off > 150h

6:6 Bluetooth 2.1
A2DP 1.2
HSP 1.2
HFP 1.5
AVRCP 1.0

The headset is designed for **Bluetooth** standard V.2.1 (headset and handsfree profiles + A2DP) and is tested in accordance with: EN 300 328-17 (radio test), EN 301 489-1/-17 (EMC test), EN 60 950-1 (electric safety), FCC part 15.247 (US radio test) and I.C. (Canadian radio test).

Safety information
Your wireless transceiver contains low power transmitter. When the transmitter is activated it sends out radio frequency (RF) signals. This device is authorized to operate at a duty factor not exceed 50%.Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and violate FCC regulations

7. STORAGE
Do not store the hearing protector at temperatures exceeding +55°C, for example on a dashboard or windowsill. Do not store the hearing protector at temperatures below –55°C.
NOTE: WHEN DAMP. Turn the shells outwards. Remove the ear cushions **(E)** so that the attenuation cushions can dry. Remove the batteries when storing the hearing protector for a long time. Check the functioning of the unit after replacing the batteries. The recommended maximum shelf life is 5 years from date of manufacturing.

8. MAINTENANCE / CLEANING / DISPOSAL
After prolonged use, or other situations in which the headset attracts moisture inside the cups, remove the cushions and inserts to allow the hearing protector to dry before its next use.
Do not store the headset in temperatures exceeding +55°C, for example on a car dashboard/hat shelf or window sill.
The headset (especially the ear cushions) can eventually wear out. Inspect regularly for signs of any physical damage and replace if necessary. Certain chemical substances may be harmful to this product. Contact 3M for more information.

Clean/disinfect the shells, headband and ear cushions regularly with soap and warm water.
Notice! Do not immerse in water or fluids.

This product is covered by the WEEE directive 2002/96/EC and is recyclable. Dispose of the product in accordance with national regulation. Use a local recycling system for electronic products.

WARNING!
The sound from the active-volume circuit on the hearing protector may exceed the external sound level.

This product is covered by the WEEE directive 2002/96/EC and is recyclable. Dispose the product in accordance with national regulation. Use local recycling system for electronic products.

8:1 CLEANING

Clean/disinfect the shells, headband and ear cushions regularly with soap and warm water.
Note: Do not immerse in water or fluids.

8:2 REMOVING/REPLACING EAR CUSHIONS

(E) Slide your fingers under the edge of the ear cushion and pull straight out.
Insert a new ear cushion by pressing until it snaps into place.

9. SPARE PARTS/ACCESSORIES

HY79 Hygiene kit
Easily replaceable hygiene kit consisting of two attenuation cushions, two foam rings and snap-in ear cushions. Replace at least twice a year to ensure consistent attenuation, hygiene and comfort!

HY100A Clean – single-use protectors
A single-use protector that is easy to apply to the ear cushions. Package contains 100 pairs.

HYM1000 Mike Protector
Moisture and wind-proof with hygienic tape. Protects the speech microphone and enhances its life span.
Package of 5 meters for about 50 replacements. Contains natural latex, not recommended for use by sensitive persons.

M40/1 Wind shield for MT7-type speech microphones
Effective protection from wind noise. Enhances the life span and protects the speech microphone.
One per package.

M60/2 Wind shield for ambient microphones
Effective protection from wind noise. One pair per package.

MT7 Dynamic microphone
Microphone boom with dynamic microphone.

ACK053 Rechargeable battery pack
Rechargeable NiMH Battery pack, 2500 mAh.

1180 SV Battery lid
Battery lid for the use of 1.5 V batteries type LR6 (AA) (One lid is included in the package on delivery.)

FR09 Battery charger
Battery charger for the Peltor ACK053 accumulator battery.

Flex Connecting cable
Please contact your 3M Peltor dealer!

WARRANTY

The warranty does not cover any damage caused by neglected maintenance
or careless handling. For more information on maintenance, please see the user instruction.
For complete warranty condition, contact your dealer or local 3M office.

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Declaration of Conformity

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