



 **Husqvarna**[®]



X-COM Active (HP500C-01, HP500C-02)

Contents

Introduction.....	2	Transportation, storage and disposal.....	12
Safety.....	3	Accessories.....	12
Assembly.....	4	Technical data.....	13
Operation.....	7	Appendix	15
Maintenance.....	11		

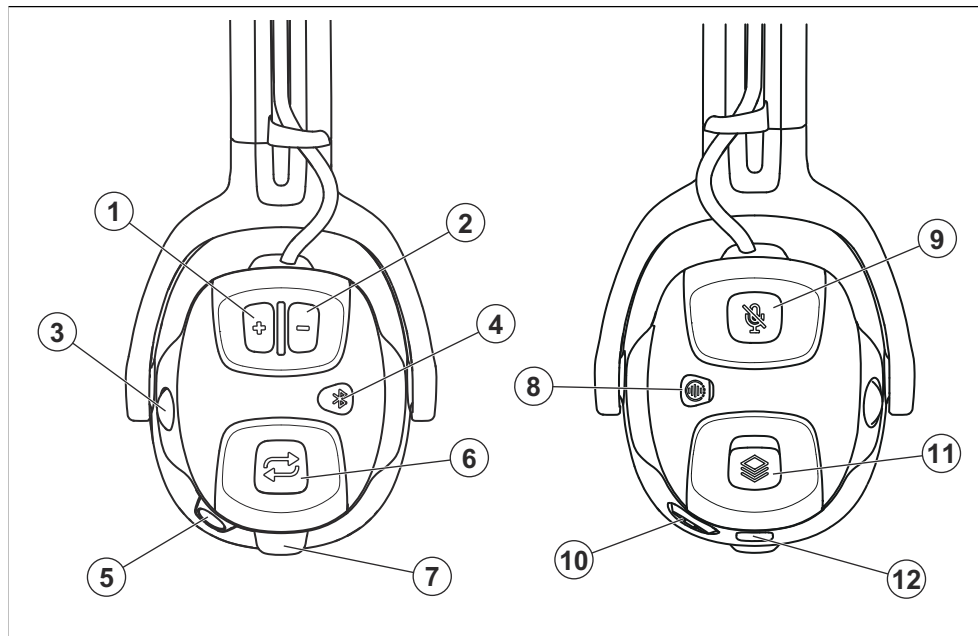
Introduction

Product description

The product X-COM Active (HP500C-01, HP500C-02) is a hearing protection with integrated full-duplex communication, *Bluetooth® wireless technology* and FM

radio. The model HP500C-01 is a hearing protection with headband and the model HP500C-02 is a hearing protection for a helmet. The product gives protection from harmful noise.

Product overview



1. Volume up button
2. Volume down button
3. Level dependent microphone
4. Bluetooth® button
5. Speech microphone
6. Mode button
7. USB-C charger cable outlet
8. Ambient sound button
9. Mute button
10. On/Off button

11. Channel button
12. Boom microphone outlet

Compliance and approvals

Hereby, Husqvarna AB, SE-561 82 Huskvarna, Sweden, tel: +46-36-146500, declares that the radio equipment type HP500C-01 and HP500C-01 is in compliance with 2014/53/EU, 2011/65/EU and the regulation (EU) 2016/425. The full text of the EU declaration of conformity is available at the following internet

address: www.husqvarna.com; search for X-COM Active, HP500C-01, HP500C-02.

The product attenuation values and noise levels are tested and approved according to: EN 352-1:2020 (headband), EN 352-3:2020 (helmet mounted), EN 352-4:2020, EN 352-6:2020 and EN 352-8:2020.

Notified body involved in the conformity assessment is: Notified body number 1974, PZT GmbH, Bismarckstraße 264 B, 26389 Wilhelmshaven, Germany.

Certification and Monitoring by PZT.

The battery is certified according to IEC62133 edition 2.



UK Importer:
Husqvarna UK Ltd
Preston Road, Co. Durham
DL5 6UP

FCC ID: ZASHP500, IC: 23307-HP500

FCC Compliance Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful

interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Consult the dealer for help.

Marking on the product is found on the label on the right earmuff.

ISED Canada Compliance Statement

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

CAN ICES-3 (B)/NMB-3(B)

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- L'appareil ne doit pas produire de brouillage.
- L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-3 (B)/NMB-3(B)

Registered trademarks

The *Bluetooth*[®] word mark and logos are registered trademarks owned by *Bluetooth SIG, inc.* and any use of such marks by Husqvarna is under license.

Safety

Safety definitions

Warnings, cautions and notes are used to point out specially important parts of the manual.



WARNING: Used if there is a risk of injury or death for the operator or bystanders if the instructions in the manual are not obeyed.



CAUTION: Used if there is a risk of damage to the product, other materials or the adjacent area if the instructions in the manual are not obeyed.

Note: Used to give more information that is necessary in a given situation.

General safety



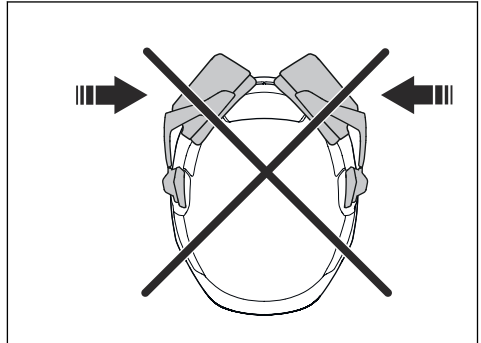
WARNING: Read the warning instructions that follow before you use the product.

- Use and save these instructions.
- For optimal fit and function, make sure that you have selected the correct product for your use.
- Do not change or remove parts on the product. Only do changes that are given in this operator's manual.
- The noise attenuation of the product will be severely impaired if you do not follow the instructions in this operator's manual. Ear-muffs, and in particular cushions, may deteriorate with use and should be examined at frequent intervals for cracking and leakage. Refer to *Maintenance on page 11*.
- This product may be adversely affected by certain chemical substances. Further information should be sought from the manufacturer. Keep away from aggressive substances and clean the product regularly. Use a cloth with water and soap. Do not wash or put fully into water.
- All service and repair work must be done by an approved service workshop. Only use Husqvarna original spare parts.
- Never use the ear-muffs longer than 10 years from the manufacturing date stated on the packaging.
- The functionality of the product may deteriorate with battery consumption.

Safety instructions for operation

- The wearer should ensure that the ear-muffs are worn at all times in noisy environments.
- Be more careful and listen for warning signals when you use the product. The noise from warning signals can be decreased when you use the product.
- The audibility of warning signals at specific workplace may be impaired while using the entertainment facility.
- Make sure that the product is not hit during transportation and use.
- Only use the product between temperatures -20°C and +55°C/-4°F and +131°F. If you use the product in other temperatures, this can cause damage to the electronics, battery and mechanical parts.
- Make sure that you know how to use the product before use. Speak to your servicing dealer if there is damage on the product. Do not open the casing!

- The fitting of hygiene covers to the cushions, may affect the acoustic performance of the ear-muffs. Always use original accessories.
- Do not push the earmuffs against the helmet shell. If you do that, it can cause cracks around the side of the helmet.



- Do not put the product in storage at temperatures above +55°C/+131°F, for example on a dashboard. Do not put the product in storage at temperatures below -20°C/-4°F.
- The wearer should ensure that the ear-muffs are fitted, adjusted and maintained in accordance with this operator's manual.
- The ear-muff is provided with safety-related audio input. The user should check correct operation before use. If distortion or failure is detected, the user should refer to the manufacturer's advice for maintenance.

Battery safety

- The earmuff is provided with level-dependent attenuation. The user should check for correct operation before use. If a malfunction or fault is detected, the user should follow the manufacturer's instructions for maintenance.
- The product contains battery and electrical components that may cause ignition in flammable or explosive atmospheres. Do not use in environments where sparks may cause a fire or explosion.
- Only charge the product within temperature range 0°C to +40°C/+32°F to +104°F. Charging outside temperature range can damage the electronics and battery.

Assembly

Introduction



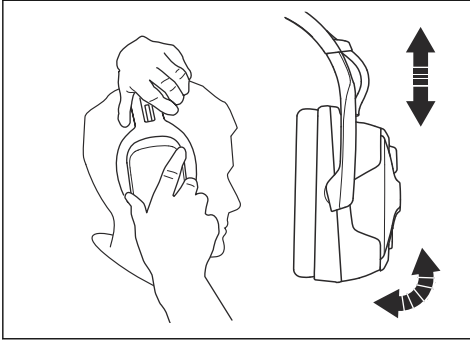
WARNING: Move your hair to the side before you assemble the product. Make sure that the sealing rings are tight against

your head and around your ears before you operate the product.

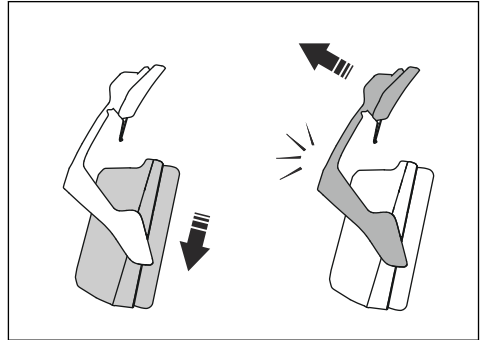
To put on the earmuffs with headband

1. Put the headband across the top of your head.

2. Move the earmuffs up or down to adjust the height.

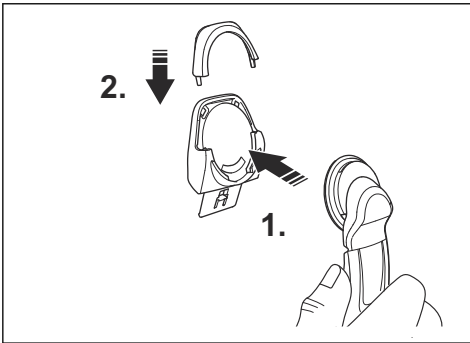


4. Lift the earmuffs out and up until they lock in standby position.



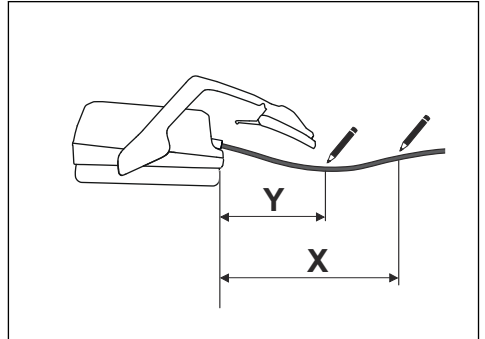
To assemble the earmuffs to a helmet

1. Assemble the correct adapter attachment type to the helmet shell. Refer to *Approved helmets on page 12*.
2. Assemble the helmet fork on the attachment adapter.

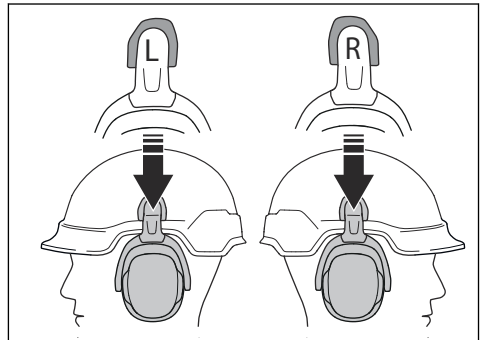


5. Do a mark on the cable.

- a) For helmet H300, do a mark 27 cm/11 in (X) from each earmuff.
- b) For helmet Spire Vent X, do a mark 14.5 cm/6 in (Y) from each earmuff.



6. Put the helmet attachment in the slot on the helmet.



Note: Refer to *Approved helmets on page 12* for more information about which helmet attachment is applicable to your helmet.

3. Move the earmuffs to the lowest position.

7. Continue to assembly instructions for your approved helmet.



CAUTION: Make sure that the cable is not twisted or has a small bend radius. Make

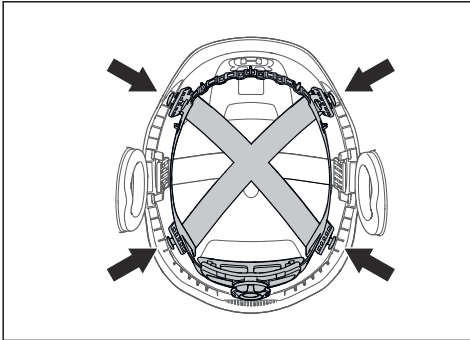
sure that the cable can move smoothly into the opening of the helmet.

To assemble the earmuffs to the helmet Spire Vent X

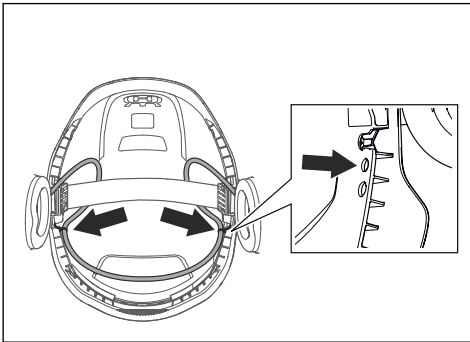
1. Put the cable in a loop rearward.
2. Attach the cable to the head harness with cable ties. Attach the cable tie through the backstrap of the headband.
3. Cut the cable tie.
4. Put the remaining part of the cable in a loop rearward, behind the rear headband.

To assemble the earmuffs to the helmet H300

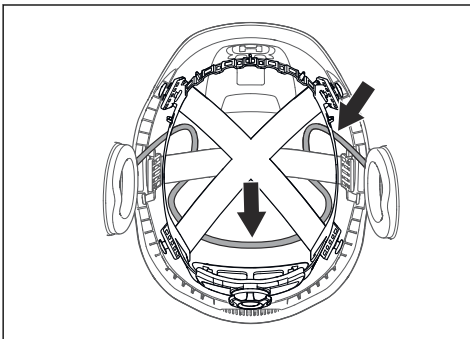
1. Release the head harness from the helmet.



2. Attach the cable to the holes with the cable ties or clips.

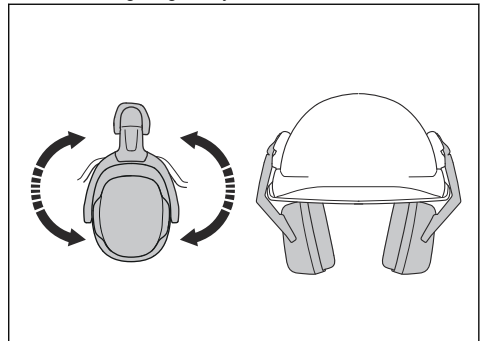


3. If you attach the cable with cable ties, cut the cable tie and push the cable tie lock into the side slot.
4. Make a loop of the cable and attach the head harness and neck protection. Make sure that the cable is between the helmet shell and the head harness.



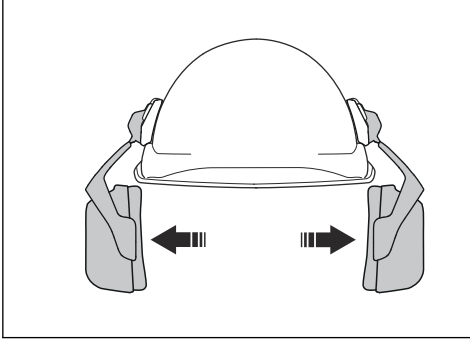
To put the earmuffs in operation position

1. Put the helmet on your head.
2. Adjust the earmuffs until they are tight around your ears and tight against your head.



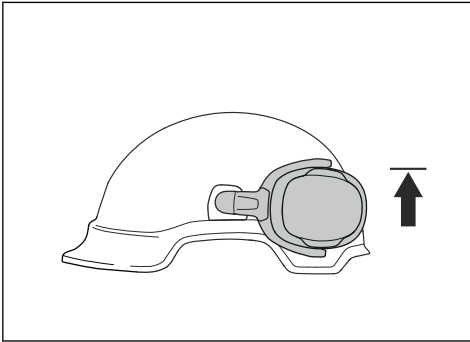
To put the earmuffs in standby position

- Lift the earmuffs out and up until they lock in standby position.



To put the earmuffs in parking position

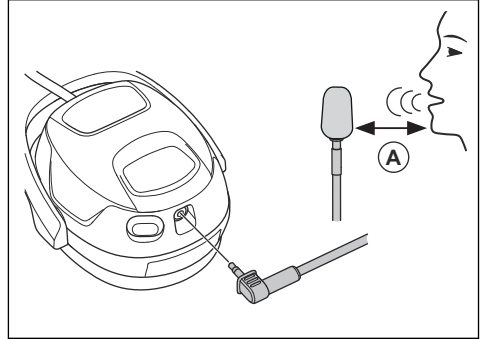
1. Put the earmuffs in standby position. Refer to *To put the earmuffs in standby position on page 7.*
2. Turn the earmuffs rearward along the side of the helmet until they lock in the parking position.



To connect the boom microphone

Use a boom microphone in environments with much noise.

1. Attach the wind filter on the boom microphone.
2. Connect the boom microphone to the microphone outlet on the right earmuff.



3. Put the boom microphone 1 cm/0.4 in. (A) from your mouth.

Operation

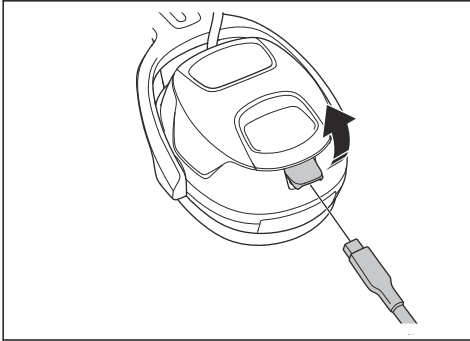
Introduction



WARNING: Before you operate the product, you must read and understand the safety chapter.

To charge the product

1. Connect the USB-C connector on the charger cable to the outlet on the left earmuff.



2. Connect the USB connector on the charger cable to a USB charger or other USB power outlet.

Note: The output of the power outlet must be 5 V and 2 A to charge at maximum capacity.

Note: The LED indicator on the Bluetooth® button flashes slowly green when the battery is charging. The LED indicator on the Bluetooth® button is solid green when the battery is fully charged.

LED indicator on the channel button	Battery state of charge
3 LEDs are on.	The battery is 90%–100% charged.
2 LEDs are on and 1 LED light flashes slowly.	The battery is 70%–90% charged.
1 LED is on and 1 LED light flashes slowly.	The battery is 20%–70% charged.
1 LED flashes slowly.	The battery is 10%–20% charged.
1 LED flashes quickly.	The battery is 0%–10% charged.

To start the product

- Push and hold the on/off button for 1 second.

Note: A beep sound tells you that the product is on. The middle LED indicator on the channel button is on for 2 seconds. An audio message tells you the battery status and the quantity of devices that are connected with Bluetooth® wireless technology. If the product finds a team, the audio message tells

you which team you are connected to. Refer to the table below.

Audio message
BATTERY HIGH
BATTERY MEDIUM
BATTERY LOW
BATTERY CRITICAL

Audio message
ONE BLUETOOTH DEVICE CONNECTED
TWO BLUETOOTH DEVICES CONNECTED
CONNECTED TO TEAM CHANNEL 1
CONNECTED TO TEAM CHANNEL 2
CONNECTED TO TEAM CHANNEL 3

To show the battery status

- Push the on/off button.

Note: The LED indicator on the channel button shows a green light for 5 seconds. Refer to the table below.

LED indicator	Battery status
3 LEDs are on.	The battery is 90%–100% charged.
2 LEDs are on.	The battery is 70%–90% charged.
1 LED is on.	The battery is 20%–70% charged.
1 LED flashes quickly.	The battery is 0%–10% charged.

To change between FM radio mode and Bluetooth® mode

- Push the mode button quickly 2 times to change between FM radio mode and Bluetooth® mode.

Note: An audio message tells you which mode you have selected. Refer to the table below.

Audio message
RADIO
BLUETOOTH

FM radio mode

In FM radio mode you get access to FM radio.

To change FM radio station

- Push and hold the volume up button or the volume down button for 1 second to change FM radio station.

Bluetooth® mode

In Bluetooth® mode you can connect your product to a device with Bluetooth® wireless technology.

To do a Bluetooth® pairing operation

1. Push and hold the Bluetooth® button for 2 seconds to start the pairing operation on your product.

Note: The pairing operation starts when you hear a beep sound and the Bluetooth® button flashes blue. The pairing operation is on for 30 seconds.

2. Start the pairing operation for Bluetooth® wireless technology on the device.
3. If it is necessary, select Husqvarna X-COM Active in the list of units on your device.

Note: An audio message tells you about the product status. Refer to the table below.

Audio message	LED indicator on the Bluetooth® button	Information
BLUETOOTH DEVICE CONNECTED	Solid blue.	The product is connected to a device with Bluetooth® wireless technology.
BLUETOOTH CONNECTION FAILED	Solid red for 2 seconds.	The product is not connected to a device with Bluetooth® wireless technology.

Note: A device with Bluetooth® wireless technology that is connected to your product, connects automatically to your product the next time the product is used with the device.

To set up a team and add devices

A team is a communication group that lets you speak to all the devices that are connected to the team. If there is no team and you do this procedure, you set up a new team. Then you can do the procedure again to add new devices to the team. Only one person sets up a team and the other devices connect to the team as shown in *To connect to a team on page 9*. Only one person at a

time can add a new device to the team. The new device must connect to the team as shown in *To connect to a team on page 9*.

1. Push the mode button for 1 second to enter the team management mode to enter team setup.

Note: An audio message tells you that you are in team management mode. Refer to the table below.

Audio message	LED indicator on the Bluetooth® button
TEAM MANAGEMENT	Solid white.

2. Push the Bluetooth® button.

Note: An audio message tells you the pairing operation status. The pairing operation starts when you hear a beep sound. Refer to the table below.

Audio message	LED indicator on the Bluetooth® button
SEARCHING FOR MEMBERS	LED flashes quickly.

Note: The pairing operation is on for 1 minute. The devices connects to the team in approximately 1 minute. The pairing operation is completed when you hear a beep sound and the Bluetooth® button shows a constant green light. A beep sound is heard each time a new device connects to the team. To connect to a team, refer to *To connect to a team on page 9*.

3. If you want to stop the pairing operation in less than 1 minute, push the mode button.
4. If you want to add a new device to the team, follow the same instructions again.

Note: A device that is connected to the team, connects automatically to the team next time you use it.

To connect to a team

You cannot connect to a team if no team is set up. To set up a team, refer to *To set up a team and add devices on page 9*. You can connect to a team at the same time a new team is set up. You can also connect to a team if a member of the team adds new devices to the team.

1. Push the mode button for 1 second to enter the team management mode.

Note: An audio message tells you that you are in team management mode. Refer to the table below.

Audio message	LED indicator on the Bluetooth® button
TEAM MANAGEMENT	Solid white.

2. Push the volume up button.

Note: The pairing operation starts when you hear a beep sound and the Bluetooth® button flashes slowly. The pairing operation is on for 1 minute. An audio message tells you that you are connected to the team. Refer to the table below.

Audio message	LED indicator on the Bluetooth® button
CONNECTED TO TEAM	Solid green.

Note: You can speak to the team after the audio message tells you that you are connected to the team.

To disconnect from a team

1. Push the mode button for 1 second to enter the team management mode.

Note: An audio message tells you that you are in team management mode. Refer to the table below.

Audio message	LED indicator on the Bluetooth® button
TEAM MANAGEMENT	Solid white.

2. Push the volume down button.

Note: An audio message tells you that you have disconnected from the team. Refer to the table below.

Audio message	LED indicator on the Bluetooth® button
LEAVING TEAM	LED flashes red 3 times.

To change communication channel

- Push the channel button to select communication channel 1, 2 or 3.

Note: An audio message tells you which channel you are in. Refer to the table below.

Audio message	Channel LED indicator
CHANNEL 1	Solid white on channel 1.

Audio message	Channel LED indicator
CHANNEL 2	Solid white on channel 2.
CHANNEL 3	Solid white on channel 3.

To speak to all communication channels

- Push and hold the channel button to speak to all communication channels at the same time.

Note: You are connected to all communication channels when you hear a beep sound. All channel LED indicators are solid white to show that you are connected to all channels.

- Release the channel button to go back to the previous channel.

To enable or disable the microphone

- Push the mute button until you hear a beep sound.

To change audio streaming

- Push and hold the volume up button for 0.5 seconds to select the next audio streaming.
- Push and hold the volume down button for 0.5 seconds to go back to the previous audio streaming.

To stop or start the audio streaming

- Push the mode button to stop or start the audio streaming.

To accept, end or dismiss a phone call

If your mobile device is connected to the product with Bluetooth® wireless technology, a signal is heard in the earmuffs when there is an incoming phone call.

- Push the mode button to accept or end the phone call.
- Push the mode button for 1 second to dismiss an incoming phone call.

Note: A beep sound tells you when the phone call is accepted or dismissed.

Audio message	Information
CALL ENDED	The phone call has ended.

To transfer the phone call to the team

1. Push the mode button to accept the phone call.
2. Push the mode button quickly 2 times to transfer the phone call to the team.

Note: An audio message tells you when the phone call has transferred. Refer to the table below.

Audio message	Information
CALL TRANSFERRED TO TEAM	The phone call has transferred to the team.

To disconnect the phone call in the team

- Push the mode button 2 times quickly.

Note: An audio message tells you when the phone call has disconnected. Refer to the table below.

Audio message	Information
CALL DISCONNECTED FROM TEAM	The phone call has disconnected from the team.

To adjust the volume

- Push the volume up button or volume down button to adjust the volume. A beep sound tells you when the volume is at the minimum or maximum level.

To set to ambient sound mode

Ambient sound mode lets you hear the sounds around you.

- Push the ambient sound button.

Note: An audio message tells you the status of the ambient sound mode.

Audio message
AMBIENT LEVEL HIGH
AMBIENT LEVEL MEDIUM
AMBIENT LEVEL LOW
AMBIENT LEVEL OFF

To stop the product

- Push and hold the on/off button for 1 second.

Note: An audio message tells you the battery status and the LED indicators go out. A beep sound tells you that the product is off.

To stop the product by force

- Push and hold the on/off button for 12 seconds.

Maintenance

To do maintenance on the product



CAUTION: Do not flush or put the product fully into water.



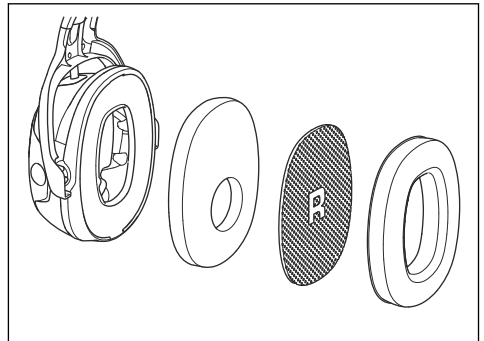
CAUTION: Spray, liquids or other cleaning agents that contain solvents and/or alcohol can decrease the protective function.



CAUTION: Use Husqvarna original spare parts.

1. Clean the product regularly. Use a cloth and a weak soap solution.
2. Do a check of the condition of the sealing rings and the foam rubber inserts before each use.

3. Replace the sealing rings and the foam rubber inserts each 6 months or more frequently if it is necessary. Make sure that the air hole on the sealing ring points down during assembly. Use the original hygiene kit that includes the sealing rings and the foam rubber inserts. Refer to www.husqvarna.com for more information about the hygiene kit.

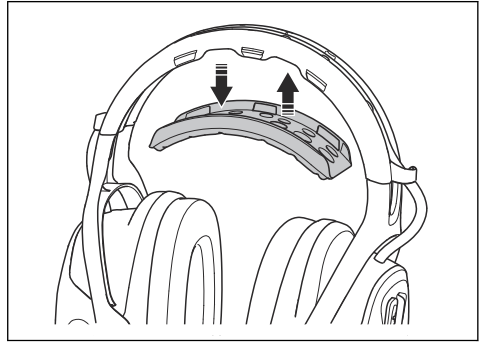


Note: If the earmuffs are wet on the inner side, let them dry in parking position. Refer to *To put the earmuffs in parking position on page 7.*

4. Replace the membrane for the speech microphone if it is damaged.

5. Replace the wind filter for the level dependent microphone if it is damaged.
6. Replace the wind filter on the boom microphone if it is damaged.

7. Replace the Comfort Pad of the headband if it is necessary.



Transportation, storage and disposal

Transportation and storage



CAUTION: During transportation and storage, put the earmuffs in operation position to decrease wear on the plastic material.

- Put the earmuffs in operation position. Refer to *To put the earmuffs in operation position on page 6.*
- Make sure that the sealing rings are not compressed.
- Put the product in a dry and clean space.
- Keep the product away from sunlight during storage.
- Charge the battery each 6 weeks to keep the quality of the battery.

- Put the product in a safe space during transportation.

Disposal

- Obey national regulations.
- Use the local recycling system.
- The product or package of the product is not domestic waste. Recycle it at a recycling station for electrical and electronic equipment.



Accessories

Approved helmets


Use the product with the helmets below only.


Model	Helmet attachment type	Adapter graphic	Approved dimensions
Husqvarna Technical, H300	Adapter H300		M/L
Husqvarna Spire	Adapter Spire		L
KASK Zenith X			

Technical data

Technical data

Refer to the illustrations that follow for technical data on each product. For more technical data, refer to the technical data appendix sheet in this operator's manual.

HP500C-01												
f(H ₂)	63	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mf (dB)	19.3	17.7	24.6	32.3	36.7	37.4	39.0	39.9	38.0	32.8	25.1	34.7
Sf (dB)	3.3	2.6	3.0	3.6	3.3	3.3	3.3	3.0	2.5	2.0	2.0	1.9
APV (dB)	16.0	15.1	21.6	28.7	33.4	34.1	35.5	36.9	36	31	23	33
 457												

HP500C-02												
f(H ₂)	63	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mf (dB)	17.1	18.3	22.5	29.0	36.1	37.5	39.7	41.6	38.0	31.3	24.5	33.7
Sf (dB)	5.0	2.8	2.8	2.9	2.6	3.5	4.1	2.8	2.5	2.0	2.3	1.9
APV (dB)	12.1	15.5	19.7	26.1	33.5	34.0	35.6	38.8	36	29	22	32
 498												

For more information about the contents of the technical data, refer to the list that follows:

- F = Frequencies at which attenuation is measured.
- Mf = Mean value.
- Sf = Standard deviation.
- APV (Mf-Sf) = Assumed Protection Value.
- H = High frequency attenuation value (predicted noise level reduction for noise where L_C-L_A = -2 dB).
- M = Medium frequency attenuation value (predicted noise level reduction for noise where L_C-L_A = +2 dB).
- L = Low frequency attenuation value (predicted noise level reduction for noise where L_C-L_A = +10 dB).

- SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, L_C, in order to estimate the effective A-weighted sound level inside the ear).

Responsible manufacturer: Husqvarna AB, SE-561 82 Huskvarna, Sweden, tel: +46-36-146500.

Sound level

The FM radio mode and Headset mode have a maximum equivalent sound level of 82 dB (A).

Materials

Part	Material	Part	Material
Inner ear cup	ABS	Headband	POM+TPE
Outer ear cup, left	ABS	Helmet fork	POM

Part	Material	Part	Material
Outer ear cup, right	ABS+TPE	Helmet fork spring	Steel
Inserts	PUR	Screws	Steel
Sealing rings	PVC and foam		

Technical data

Technical data	
Frequency spectrum for Bluetooth® wireless technology	
Bluetooth® wireless technology output power	

352-4. Criterion level EN 352-4:2020 H=114 dB, M= 111 dB, L=99 dB.

352-6					
Bluetooth® wireless technology relationship between sound output level and input signal level					
Sound pressure level dB(A)	60	65	70	75	79.7
Maximum sound pressure level ¹	<82 dB(A)				
Input signal level dBFS	-37.9	-32.8	-27.8	-22.4	-14.0
Maximum input signal level dBFS	79.7 dB(A) at -14 dBFS				
Usage time for the maximum input signal that corresponds to an equivalent sound output level of 82dB(A) over 8 h	8.0 h				

DECT relationship between sound output level and input signal level						
Output sound pressure level dB(A)	71.2	74.7	76.5	77.2	77.3	77.4
Maximum sound pressure level ¹	<82 dB(A)					
Input signal level dB SPL	74.3	79.3	84.3	89.3	94.3	99.3
Maximum input signal level dBFS	77.4 dB(A) at -19.7 dBFS					

The output level of the audio circuit of this hearing protector may exceed the exposure limit.

352-8

- The product is equipped with an entertainment audio facility.
- The earmuffs provides audio signal sound pressure level limitation and limits the entertainment audio signal to 82 dB(A).

Sound pressure level	
Bluetooth® wireless technology maximum sound pressure level dB(A)	80.1 at -10 dBFS
FM radio sound pressure level dB(A)	78.2

¹ No criterion level calculated.

Helmet mounted											
Clamping force 2.9 lb											
ANSI s3. 19-1974											
Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA class
Mean attenuation, dB	19.4	25.3	28.4	33.1	34.8	39.1	37.4	40.4	36.6	24	Class A
Standard deviation, dB	3.4	3.1	3.3	3.3	2.9	2.9	3.8	4.7	4.4		

Headband style											
Clamping force 11 N											
ANSI s3. 19-1974											
Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA class
Mean attenuation, dB	19.4	24.8	33.1	38.8	37.9	40.8	39.5	41.5	38.8	27	Class A
Standard deviation, dB	2.9	2.6	3.8	2.8	3.2	4	3.8	3.6	5.2		

The level of noise entering a person's ear, when hearing protector is worn as directed, is closely approximated by the difference between the A-weighted environmental noise level and the NRR.

Example:

1. The environmental noise level as measured at the ear is 92 dBA.
2. The NRR is 21 decibels (dB).
3. The level of noise entering the ear is approximately equal to 92 dB(A) - 21 dB(A).



CAUTION: For noise environments dominated by frequencies below 500 Hz the C-weighted environmental noise level should be used.

Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit (in example this manual).

Although hearing protectors can be recommended for protection against the harmful effects of impulsive noise, the Noise Reduction Rating (NRR) is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulsive noise such as gunfire.

Helmet mounted									
Clamping force 11.1 N									
Au/NZs 1270									
Frequency, Hz	125	250	500	1000	2000	4000	8000	SLC 80	Class
Mean attenuation, dB	15.9	20.4	26.2	34.8	38.2	34	35.9	26.2	Class 5
Standard deviation, dB	5.3	5.4	7.9	5.7	4.2	5.6	8.1		
Mean - standard deviation	10.6	15	18.3	29.1	34	28.4	27.8		

Headband style									
Clamping force 11.1 N									
Au/NZs 1270									
Frequency, Hz	125	250	500	1000	2000	4000	8000	SLC 80	Class
Mean attenuation, dB	21	24.2	30.1	35.1	37.4	35.8	37.8	32.1	Class 5
Standard deviation, dB	3.4	3.3	3.4	2.3	2.7	2.5	3.9		
Mean - standard deviation	17.6	20.9	26.7	32.8	34.7	33.3	33.9		

Hearing protector Class 5 tested to AS/NZS 1270. When selected, used and maintained as specified in AS/NZS 1269, these protectors may be used in noise up to 110 dB(A) assuming an 85 dB(A) criterion than 85 dB(A) may require a higher protector class. Testing according to ANSI S3.19 1974, AS/NZS 1270:2002 and CSAZ94.2-2014 by PZT GmbH, Brismarcstr. 264B, 26389 Wilhelmshaven, Germany (EU Notified Body 1974).



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