



Husqvarna[®]



PE 10H, PE 10H SmartGuard

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Introduction

Product description

These safety helmet systems are items of personal protective equipment (PPE). PE 10H is a combination of helmet, hearing protection and visor, suitable for general construction work, while PE 10H Smartguard also includes a chin guard intended for use with powercutters.

The helmet absorbs blows and distributes the impact of falling objects from above. It does not provide protection against side impacts.

The hearing protection provides some noise reduction.

The visor offers some protection for the eyes.

The chin guard offers some protection to the lower face area that can reduce the risk of laceration in the event of a kickback.

PE 10H SmartGuard is comprised of several systems that together reduce the risk of lacerations in certain kickback events. Operators must read, understand and follow all instructions provided on the product and in operator's manuals. It is the operator's responsibility to use equipment properly and avoid kickbacks. No personal protective equipment (PPE) can offer full protection against injury.

Symbols and markings

System part	Symbol/ marking:	Explanation
General	CE	Indicates that the product conforms to relevant EU regulations.
	MM/YYYY	Date of manufacture, month/year.
		Manufacturers trademark.
	-30°C	Approved for use at low temperature.
		Indicates that the user must read Operator's manual before use.
Helmet	H300	Model reference.
	EN 397:2012+A 1:2012	The relevant European standard number.
	-30 °C	Approved for use at low temperature.
	Size 52-62	Helmet size.
Hearing protection	HP200-2	Model reference.
	EN 352-3:2020	The relevant European standard number.
	2797	Notified body ID.

System part	Symbol/ marking:	Explanation
Visor	V10	Model reference.
	EN ISO 16321-1:2022	The relevant European standard number.
	ANSI Z87 S	The relevant ANSI standard. Letter S indicates a special purpose lens and is valid for the smoke visor.
	CT	Mechanical resistance: FT - 45 m/s and extreme temperatures (T = (-)5 - (+)55 °C).
	UL 1,2 (Clear)	Letter U indicates UV filter with the shade class 1,2. Letter L indicates light detection.
	UL 1,4 (Smoke)	Letter U indicates UV filter with the shade class 1,4. Letter L indicates light detection.
	1	Optical class
Chin guard	CG10	Model reference.
	Method 5702:2022	Number of the test method that the chin guard has been tested according to.
Chin strap	CHIN STRAP EN 397	The chin strap is not fulfilling release requirements specified in EN 397:2012+A1:2012. The chin strap releases at a force above 250 N.

Compliance and approvals

Hereby, Husqvarna AB declares that the product is in compliance with the regulation (EU) 2016/425. The full text of the EU declaration of conformity is available at the following internet address: www.husqvarnacp.com; search for each system part.

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

Helmet

The protective helmet is tested and approved in accordance to the European standard EN 397:2012+A1:2012, with approval for usage in low temperatures, -30°C.

Notified body involved in the conformity assessment is: Number 0402, RISE - Research Institutes of Sweden, Box 857, 501 15 Borås, Sweden.

The chin strap is not fulfilling release requirements specified in EN 397:2012+A1:2012. The chin strap releases at a force above 250 N.

Hearing protection

The products meet the Essential Health and Safety Requirements as laid out in Annex II and conforms with quality assurance of the production process, module D, laid out in Annex VIII of the PPE-regulation (EU) 2016/425. CE markings are in accordance with EN 352-3:2020. The products are approved to modules B and D by BSI (NB 2797), BSI Group The Netherlands B.V. Say Building, John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands.

Visor

The visor is tested and approved in accordance to the European standard EN ISO 16321-1:2022, in the temperature interval of -5°C - (+)55 °C.

Notified body involved in the conformity assessment is:

Number 0402, RISE - Research Institutes of Sweden, Box 857, 501 15 Borås, Sweden.

Chin guard

The chin guard has been tested to provide some protection to the lower face area that can reduce the risk of laceration in the event of a kickback according to test method Method 5702:2022, with approval for usage in low temperatures (-30°C). This also means that the whole system of PE 10H SmartGuard with all system parts have been tested and approved for usage in low temperatures (-30°C) according to Method 5702:2022. Note that the visor has been tested in a different temperature interval according to the personal eye protection standard EN ISO 16321-1:2022. Refer to *Visor* on page 3.

The chin guard has been tested in a simulated kick-back with a power cutter corresponding to:

- Output power: 3.7 KW
- Weight: 11 kg
- Max blade speed before kickback: 4200 rpm (Due to the impacting break force on the blade in the event of a kickback the remaining blade speed when potentially reaching an operator is lower: 3300 rpm).
- Blade: Husqvarna Varicut S45 14

This has resulted in input values to Method 5702:2022 of an impact energy of 36,6 Joule and blade speed of 3300 rpm.

Note: Kick-back is an unpredictable event and the reactive forces involved can differ significantly. No PPE can offer full protection against injury

Notified body has approved that test method and result fulfill applicable requirements in PPE regulation. Notified body involved in the conformity assessment is:

Number 0402, RISE - Research Institutes of Sweden, Box 857, 501 15 Borås, Sweden.

Additional approvals

Limited protection helmet - Model H300: Tested according to ANSI/ISEA standard Z89.1, Type I, Class C. Meets or exceeds OSHA regulations

Hearing protection, Model: Type 2: Tested according to ANSI specifications S3.19-1974 and S12.6-1984 and meet CSA Z94.2-M 1984 requirements for class "A" hearing protectors.

V10 Visor: Tested according to ANSI/ISEA standard Z87.1. Meets or exceeds OSHA regulations.

Safety

Safety definitions

Warnings, cautions, and notes are used to point out particularly 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.



WARNING: No PPE can offer full protection against injury.



WARNING: The chin guard must always be used together with the visor and hearing protection specified in this manual in order to work as intended. Visor must always be folded down during operation.



WARNING: If protectors are subjected to impact, they must not be used and must be discarded and replaced with new ones.

- Use of this product does not decrease the need for safe operation of the equipment.

- The protective equipment should only be used for applications it is intended for. Consult your supervisor, dealer or Husqvarna for advice if you are unsure which kind of protective equipment is required for the application in question.
- Use and save these instructions.
- The condition of the protective equipment should be checked regularly. Damaged equipment should always be replaced.
- Make sure the product is not impacted during transportation and use.
- Speak to your servicing dealer if there is damage on the product. If there is any doubt regarding whether the product is fit for use, do not use.
- Do not use the product longer than 5 years from the production date. The production date is stated on each system part of the product (helmet, visor, hearing protection, chin guard). If the system parts have different production dates, always refer to the oldest date.
- Make sure that you know how to use the product before use.
- Always ensure the protective equipment is properly assembled, fitted and maintained according to the manufacturer's instructions.
- The attention of users is also drawn to the danger of modifying or removing any of the original component parts of the helmet, other than as recommended by the helmet manufacturer. Helmets should not be adapted for the purpose of fitting attachments in any way not recommended by the helmet manufacturer.
- Materials which may come into contact with the wearer's skin is not known to cause an allergic reaction. If a user anyway gets an allergic reaction, stop wearing the product immediately and seek professional advice.
- Do not apply paint, solvents, adhesives or self-adhesive labels, except in accordance with instructions from the helmet manufacturer.
- Do not use the equipment if it has been subject to any contamination, alteration, or misuse that would reduce the performance of the protector.
- Carefully read and follow all instructions and warnings of the power cutter you are operating when wearing the equipment. Make sure to fulfill needs

related to training and competence to operate the power cutter in a safe way.

- Only use Husqvarna original spare parts.
- A protective helmet that shows signs of damage, e.g. cracks or scratches, that might reduce its protective capabilities, must be disposed of. The helmet should also be disposed of if it has been involved in an accident or incident, even if it does not have any visual damage.

Safety instructions for helmet



WARNING: No PPE can offer full protection against injury.



WARNING: The chin strap is not fulfilling release requirements specified in EN 397:2012+A1:2012. The chin strap releases at a force above 250 N.

- The helmet provides limited protection by reducing the impact of force from small objects striking or penetrating the top of the shell. It is not designed to provide front, rear or side impact or penetration more than light bumps to those areas. **THE HELMET CAN NOT PROTECT YOU FROM SUFFERING SEVERE NECK, HEAD OR BRAIN INJURY, PARALYSIS OR DEATH IN THE EVENT OF A SIGNIFICANT FORCE OR IMPACT.**
- Avoid contact with electric wires.
- For adequate protection this helmet must fit or be adjusted to the size of the user's head.
- The helmet is made to absorb the energy of a blow by partial destruction or damage to the shell and the harness, and even though such damage may not be readily apparent, any helmet subjected to severe impact should be replaced.

Safety instructions for hearing protection



WARNING: No PPE can offer full protection against injury.



WARNING: Hearing protectors can block out warning cries, alarms or other important signals. Always pay extra attention to surroundings when wearing hearing protectors.

- The noise attenuation of the product will be severely impaired if you do not follow the instructions in this operator's manual.
- The wearer should ensure that the ear-muffs are worn at all times in noisy environments.
- Ear-muffs, and in particular cushions / foam may deteriorate with use and should be examined at frequent intervals for cracking and leakage.

- 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 helmet mounted version of this earmuffs against the helmet shell. If you do that, it can cause cracks around the side of the helmet. ☹

Safety instructions for the visor



WARNING: No PPE can offer full protection against injury.



WARNING: The impact level symbols must match on both the lens or filter and the frame; otherwise, the lower level must be assigned to the complete protector.



WARNING: Not suitable for driving at night or under conditions of dull light.

- Visor does not provide full protection from all angles. To ensure full eye protection user should wear safety glasses as a complement.
- Visor does not give protection against splashes of melted metal, hot objects, splashes of liquid or electrical risks.
- Do not use the visor if it has scratches, is damaged or dirty. Replace the visor to decrease the risk of injury.
- Eye protectors against high speed particles, worn over standard ophthalmic spectacles, may transmit impacts, thus creating a hazard to the wearer.
- If protection against high speed particles at extremes temperatures is required then the visor shall be marked with the letter T immediately after the impact letter, for example FT, BT, AT. If the impact letter is not followed by the letter T, then the safety glasses shall only be used against high speed particles at room temperature.

Safety instructions for the chin guard



WARNING: Kickback can occur suddenly and unexpectedly. Kickback can result in serious injury or death.



WARNING: The chin guard cannot offer full protection against injury.



WARNING: If using a power cutter blade with large slits (+7mm) between the blade segments there is a risk that the blade get stuck in the chin guard.

- The chin guard may not provide protection to the user under all circumstances, especially not injuries caused by impacts from the power cutter. The chin guard has been tested to provide some protection to the lower face area that can reduce the risk of laceration in the event of a kickback.
- Make sure the chin guard is attached and maintained in accordance with this operator's manual.

- The chin guard is only compatible with personal protective equipment (PPE) specified in this operator's manual.
- Do not use the product without the soft pads on the inside of the chin guard since this can decrease the level of protection.

Assembly

Introduction



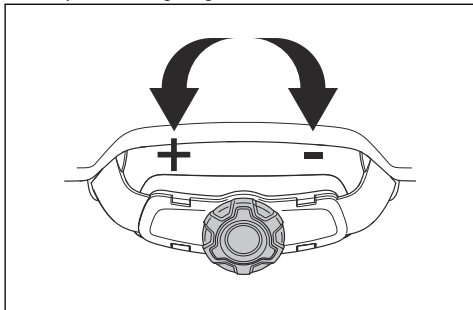
WARNING: Move your hair to the side before you assemble the product. Make sure that the sealing rings are tight against your head and around your ears before you operate the product.



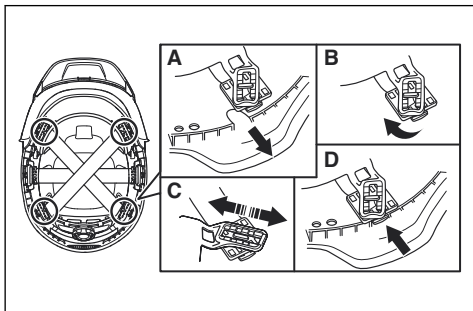
WARNING: For the helmet to provide the intended protection it must be adjusted to the user's head.

To adjust the protective helmet

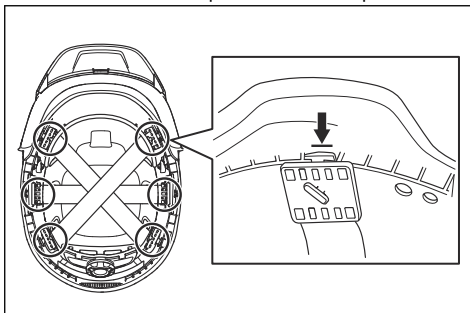
1. Turn the knob to adjust the neck strap. The neck strap must be tight against the head.



2. If it is necessary, set the suspension to the correct height. The suspension can be adjusted to 2 different heights in the front and in the rear part of the helmet.

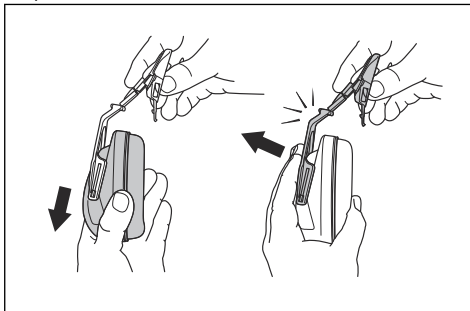


3. Make sure that all 6 connection points on the suspension are correctly installed.
4. Push the connection points to their end position.

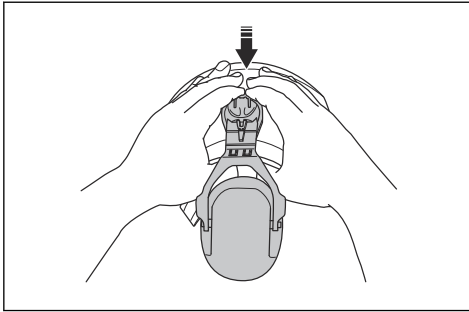


To attach the earmuffs to the helmet

1. Move the earmuffs to the lowest position.
2. Lift the earmuffs out and up until they lock in standby position.



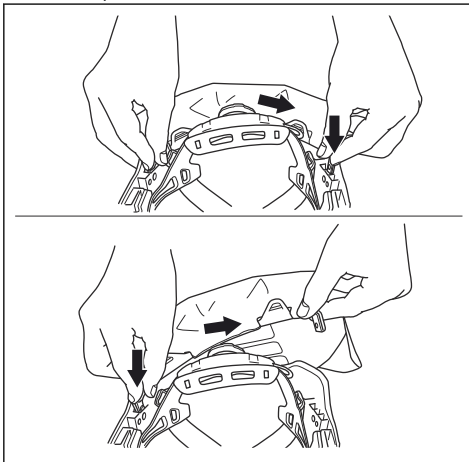
3. Put the helmet attachment in the slot on the helmet.



Note: Examine if the earmuffs are intended for the right or the left side of the helmet. Right and left have the designation "R" for right and "L" for left. Earmuffs without designation can be used on the left or right side of the helmet.

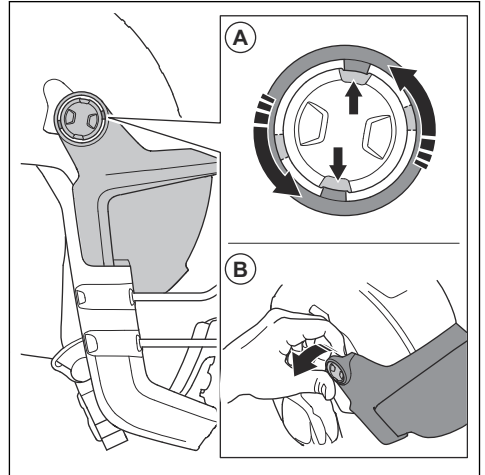
To attach the neck protection to the helmet

1. Attach the neck protection to the connection points in the rear part of the helmet.



To remove the visor frame

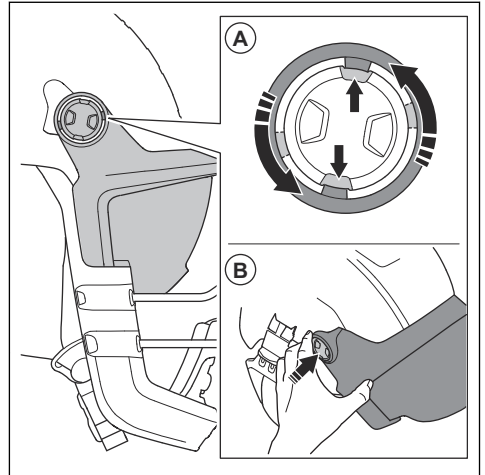
1. Turn the visor to find the removal position (A).



2. Remove the visor frame (B) from the 2 sides.

To attach the visor frame

1. Make sure that the visor frame is in position (A).



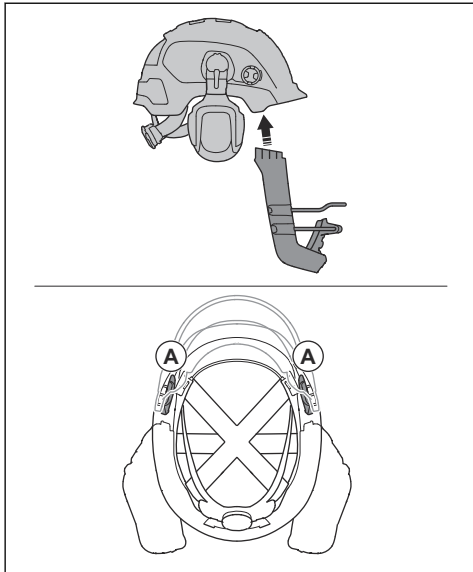
2. Push the visor frame (B) to attach it to the helmet, start with one side.

To attach the chin guard



WARNING: The use of the chin guard limits the user's field of view and, as a result, the product does not fully comply with the field-of-view requirements specified in EN ISO 16321-1:2022.

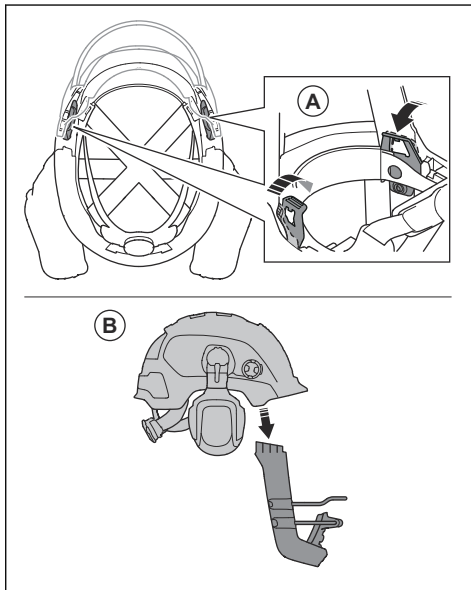
1. Attach the chin guard to the 2 clips (A).



2. Put the chin guard in position on one side and then do to the other side.

To remove the chin guard

1. Release the 2 clips (A), start on one side and then the other side.



2. Remove the chin guard (B).

Operation

Introduction



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

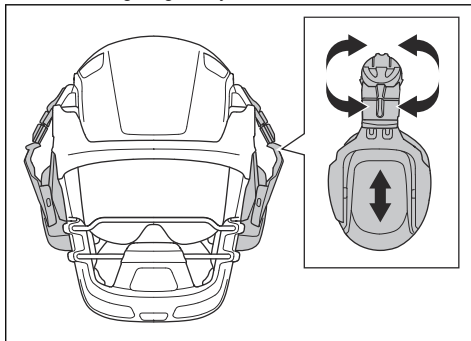
Before you use the product

1. Read the operator's manual carefully and make sure that you understand the instructions.
2. Examine the product to make sure that all parts are correctly assembled and adjusted.
3. Do a daily check of the product.

To put the earmuffs in operation position

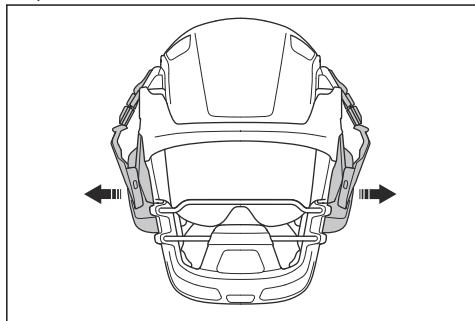
1. Put the helmet on your head.

2. Adjust the earmuffs until they are tight around your ears and tight against your head.



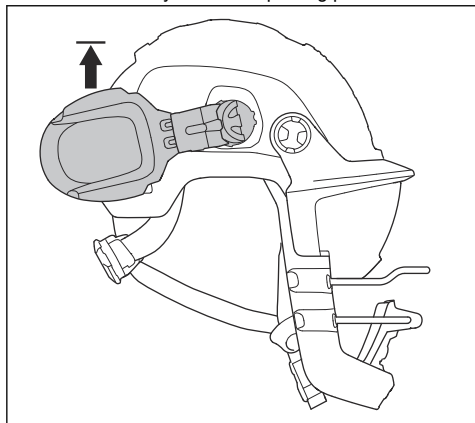
To put the earmuffs in standby position

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



To put the earmuffs in parking position

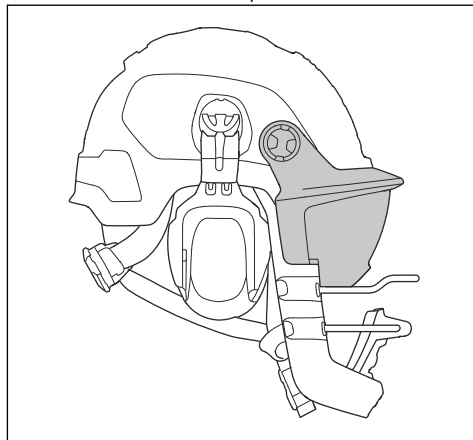
1. Put the earmuffs in standby position.
2. Turn the earmuffs rearward along the side of the helmet until they lock in the parking position.



To put the visor in operation position

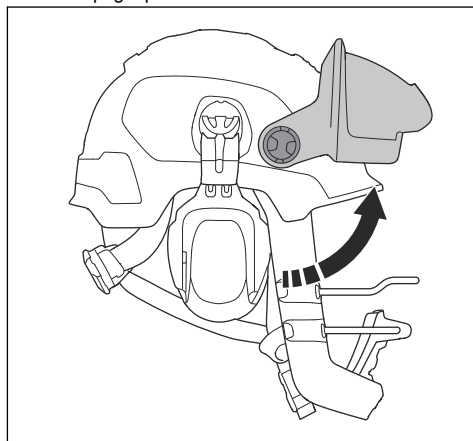
1. Make sure the visor is clean and not damaged.

2. Lower the visor to its end position.



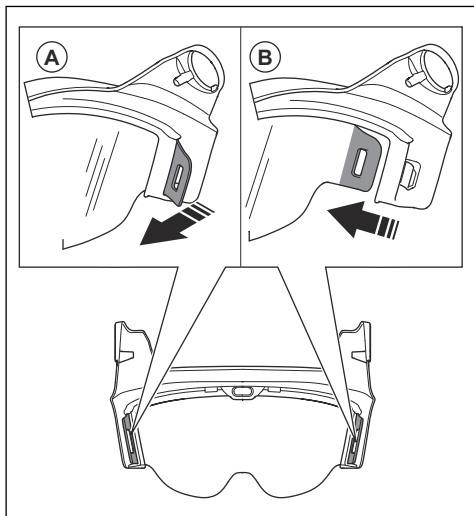
To put the visor in standby position

1. Lift the visor until you hear a click and the visor stays in an upright position.

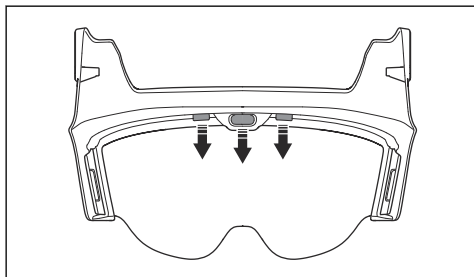


To replace the visor

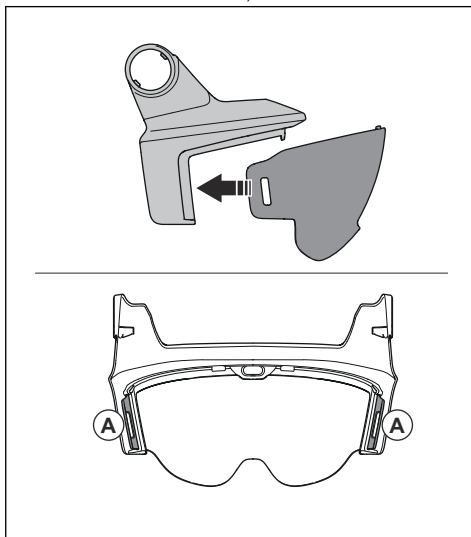
1. Remove the 2 clips on the inner surface of the visor frame. Remove the clip (A) and then push out (B) the visor.



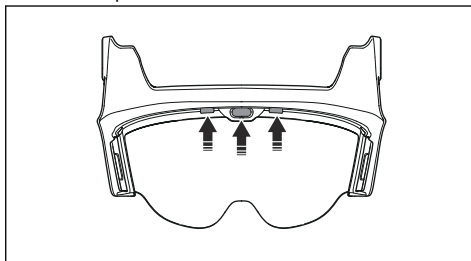
2. Remove the front fastener points and remove the lens visor.



3. Attach the lens visor to the 2 clips (A) on the inner surface of the visor frame, start with one side.



4. Attach the front fastener points and push the lens visor into position.

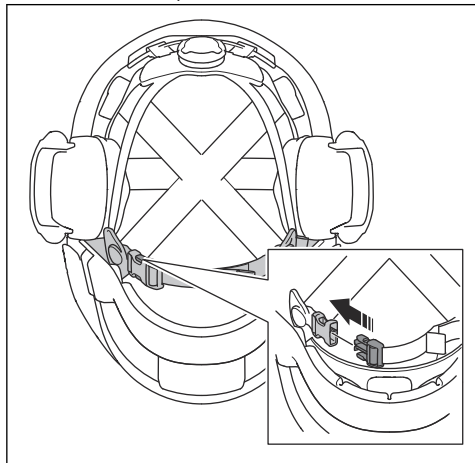


To use the chin guard safely

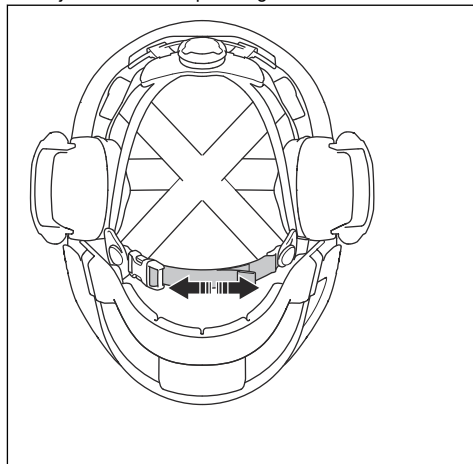
1. Put the helmet on your head.
2. Make sure that the chin guard gives protection to the mouth and chin areas.
3. Make sure that the helmet is stable and stays in position during operation. Turn the neck strap knob to adjust the neck strap to a tight position against your head. Refer to *To adjust the protective helmet on page 6*.
4. Put on the hearing protection. Refer to *To put the earmuffs in operation position on page 8*.

Chin strap

1. Use the chin strap.



2. Adjust the chin strap to a tight fit.



Maintenance

To do maintenance on the product

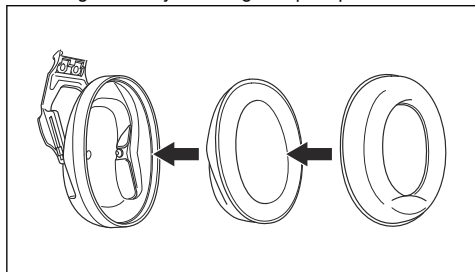


CAUTION: Do not flush or put the product fully into water.



CAUTION: Spray, liquids or other cleansers containing solvents and/or alcohol can reduce the protective capabilities.

- Clean the product regularly. Use a cloth with water and mild soap.
- Do a check of the hearing protection before each use. Replace worn and damaged parts.
- Replace worn or damaged sealing rings and foam rubber inserts of the hearing protection 1 time each 6 months or more frequently if it is necessary. Make sure that the bulge on the sealing ring points down during assembly. Use original spare parts.



- Replace the visor if it shows signs of damage such as scratches or cracks or if the visibility is poor. Sunlight can cause the plastic material of the visor to age faster.
- Do a check of the chin guard regularly for cracks and other damages. Replace damaged chin guard.

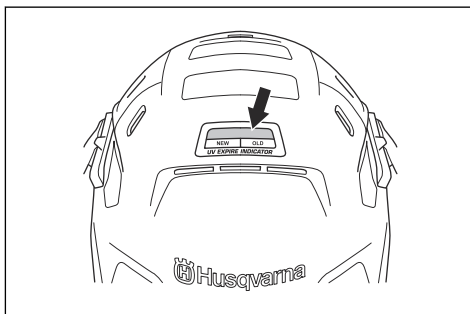
Note: If the earmuffs are wet on the inner side, let them dry in parking position. Reference *To put the earmuffs in parking position on page 9*.

Transportation, storage and disposal

Transportation and storage

- Put the earmuffs in operation position. Refer to *To put the earmuffs in operation position on page 8*.
- Make sure that the sealing rings on the hearing protection are not compressed.
- Put the product in a dry and clean space with correct temperature.
- Do not put the product in sunlight during storage.
- Put the product in a safe space during transportation and ensure they are protected from chemical and/or physical damage.

new, the color of the color indicator is red. As ultraviolet rays hit the helmet, the color on the color indicator slowly decreases. Replace the helmet when there is no color on the color indicator.



Disposal

- Obey national regulations.
- Use the local recycling system.

Disposal of the helmet

The helmet has a color indicator that shows the maximum service life of the helmet. When the helmet is

Approved helmet combinations

Helmet model	Hearing protection model	Approved dimensions
Husqvarna, H300	Husqvarna, HP200-2	S, M, L

Visor

The visor V10 is approved in combination with Helmet H300.

Chin guard

The chin guard CG10 is approved in combination with Helmet H300, Visor V10 and Hearing protection HP200-2.

Attenuation

$f(H_z)^1$	63	125	250	500	1000	2000	4000	8000
Mf (dB) ²	15.5	15.5	20.2	28.0	31.5	35.1	36.7	38.9
Sf (dB) ³	4.6	2.2	2.1	2.8	2.0	2.8	3.1	3.5
APV (dB) ⁴	10.9	13.3	18.2	25.2	29.6	32.3	33.6	35.4
HML, dB ⁵	H: 34, M: 28, L: 20							

¹ F = Frequencies at which attenuation is measured.

² Mf = Mean value.

³ Sf = Standard deviation.

⁴ APV (Mf-Sf) = Assumed Protection Value.

⁵ H = High frequency attenuation value (predicted noise level reduction for noise where LC-LA = -2 dB). M = Medium frequency attenuation value (predicted noise level reduction for noise where LC-LA = +2 dB). L = Low frequency attenuation value (predicted noise level reduction for noise where LC-LA = +10 dB).

SNR, dB ⁶	30
Weight, g	207.6

Materials for hearing protection

Part	Material	Part	Material
Cups	ABS	Adapter	PA
Attenuation foam	PU	Holder	PA
Sealing rings	ABS, PVC	Spring cover	PP
Cup supporting arm	PA		

⁶ SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, LC, in order to estimate the effective A-weighted sound level inside the ear).



www.husqvarnaconstruction.com

Original instructions



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2026-06-18