

This instruction is valid for installation of the Trellchem® Hands-Free Visor Light System in Trellchem gastight suits of encapsulating design type VPI and CV.

The kit consists of the following parts:

- LED holder (plastic frame with installed LED lamps)
- Battery casing (9V battery not included)
- Battery pack holder with cable loop and elastics
- Cable loop (short)
- Screwdriver (type Phillips)
- Instructions for use

Optional extension kit (for use for alternative positioning of the battery casing) contains:

- Extension cable
- Cable loops (2 short, 2 long)

Not included but required



- 9V battery
- Measuring tape
- Masking tape
- Scissors
- Pen

Pre-use information

Upon opening the box, make sure your LED kit is complete.

Connect the LED holder to the battery and verify functionality before installing the parts in your suit.

Read the complete instruction before installing the parts in your suit.

Safety precautions

Always follow good safety practice and make sure donning and doffing of the chemical protective suit is done in a safe environment free from chemicals including gases and potentially explosive atmospheres.

Make sure the lid of the battery casing is closed before donning.

Battery - General instructions

Open the battery casing on sticker/label side only.

For suits in operation, check the battery regularly to make sure it functions. Replace after each use.

Remove battery before putting suits in storage.

Take out the battery pack before washing the suit. Wash the suit according to instructions in the Trellchem suit manual.

Expected duration of the light

Depending on the type of battery, you can expect the following approximate duration of the LED light:

- Standard alkaline battery: 1 h
- Duracell Ultra Power: 2 h
- Varta Lithium: 6 h (at +20°C/+68°F)

Proper battery installation



1. Insert a 9V battery into the battery casing.
 - a) With the screwdriver, open the battery casing on the label/sticker side by unscrewing the 4 screws (the kit is delivered with the lid open).
 - b) Insert the battery according to the +/- marks inside the casing.
 - c) Close the casing by tightening the screws.

How to install the LED holder



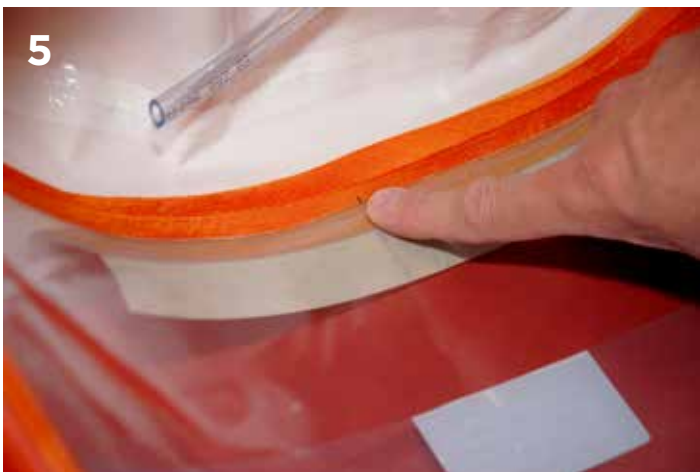
2. If your suit still has the protective film on the outside of the visor, remove the film, or at least pull it away from the top of the visor.

a) Put a piece (10-15 cm) of masking tape on the outside of the visor, along the upper edge. The amount of tape used here is not important, though make sure it covers the middle part of the visor.

b) Use the measuring tape to find the middle of the visor. Measure along the upper edge of the visor from one side to the other.



c) With the pen, mark the middle on the applied piece of tape.



3. Turn the suit to work on the inside. If your suit still has the protective film on the inside of the visor, remove the film, or at least pull it away from the top of the visor.

a) With the pen, make a small mark on the middle of the inner visor tape. This mark should be aligned with the mark on the outside masking tape.

4. Without removing the release papers, position the LED holder inside the visor and align the top edge with the visor according to a) or b) below.

a) **Suits with anti-fog lens:** Make sure the lens is placed correctly. Follow the top edge of the anti-fog lens when positioning the LED holder.

b) **Suits without anti-fog lens:** Follow the edge of the inner visor tape (i.e. the edge you see through the visor from the outside) to align the LED holder.

ATTENTION!

THE ADHESIVE STRIPS ON THE LED HOLDER ARE MADE TO STICK PERMANENTLY AND CANNOT BE REMOVED ONCE ATTACHED. TAKE CAUTION WHEN POSITIONING THE LED HOLDER.

5. When carrying out the steps a-c below, make sure you stand so you have a good overview over the attachment area inside the visor.



a) Remove the release paper from the middle smaller pad on the LED holder (see picture above) and position the holder on the inside of the visor. Make sure the center mark on the LED holder meets your marking on the visor tape (see picture below).



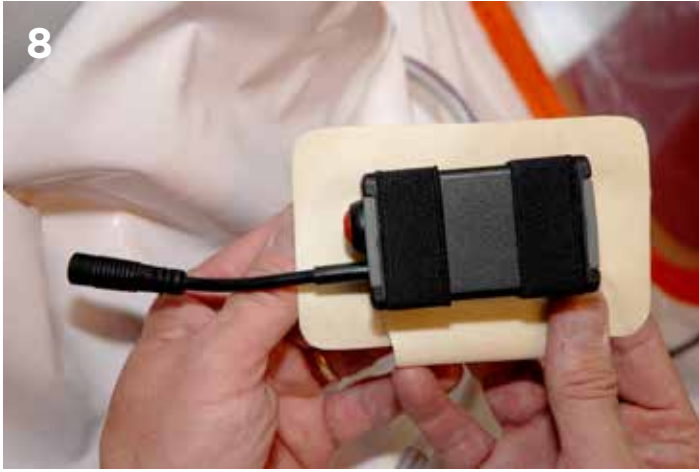
b) Working from the middle to the left, remove the release papers from the small pads one by one. Align with the visor and attach.

c) Repeat b) and align/attach from the middle to the right.

6. Remove the release paper from the long, narrow pad.

a) Press firmly along the holder to attach.

How to install battery casing in suit



7. Insert the battery casing into the battery pack holder (see picture above).

8. Without removing the release paper, place the battery pack holder on the preferred position.

- a) **Standard position:** Top right inside the hood, next to the visor.
- b) **Alternative position:** Beneath the visor on either left or right side of the suit seam. This position requires an extension kit (optional).



Standard position

9. Make sure the on/off button on the battery casing is facing downwards.

- a) Pull the cable of the battery casing up/through the loop on the right hand side of the battery pack holder (see picture above).
- b) Take a short cable loop. Pull the cable of the LED holder down/through this loop (see picture above).
- c) Connect the two cables.

10) Adjust the positioning of the battery pack holder and the cable loop according to the picture above.

- a) Make sure both battery pack holder and cable loop are positioned *next to* the inner visor tape, not *on* the tape!
- b) Remove the release paper from the battery pack holder, press to attach.
- c) Remove the release paper from the cable loop, press to attach.

Alternative position

If the battery casing is to be mounted on the alternative position, place and attach the cable loops according to the drawing below.

11. After attaching 1) LED holder, 2) battery casing and 3) cable loop... Let all adhesive parts cure for at least 24 hours before the suit is taken into use.

12. Verify functionality of the mounted light.

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This product fulfils the requirements of the EU Directive 2004/108/EC on electromagnetic compatibility (EMC).

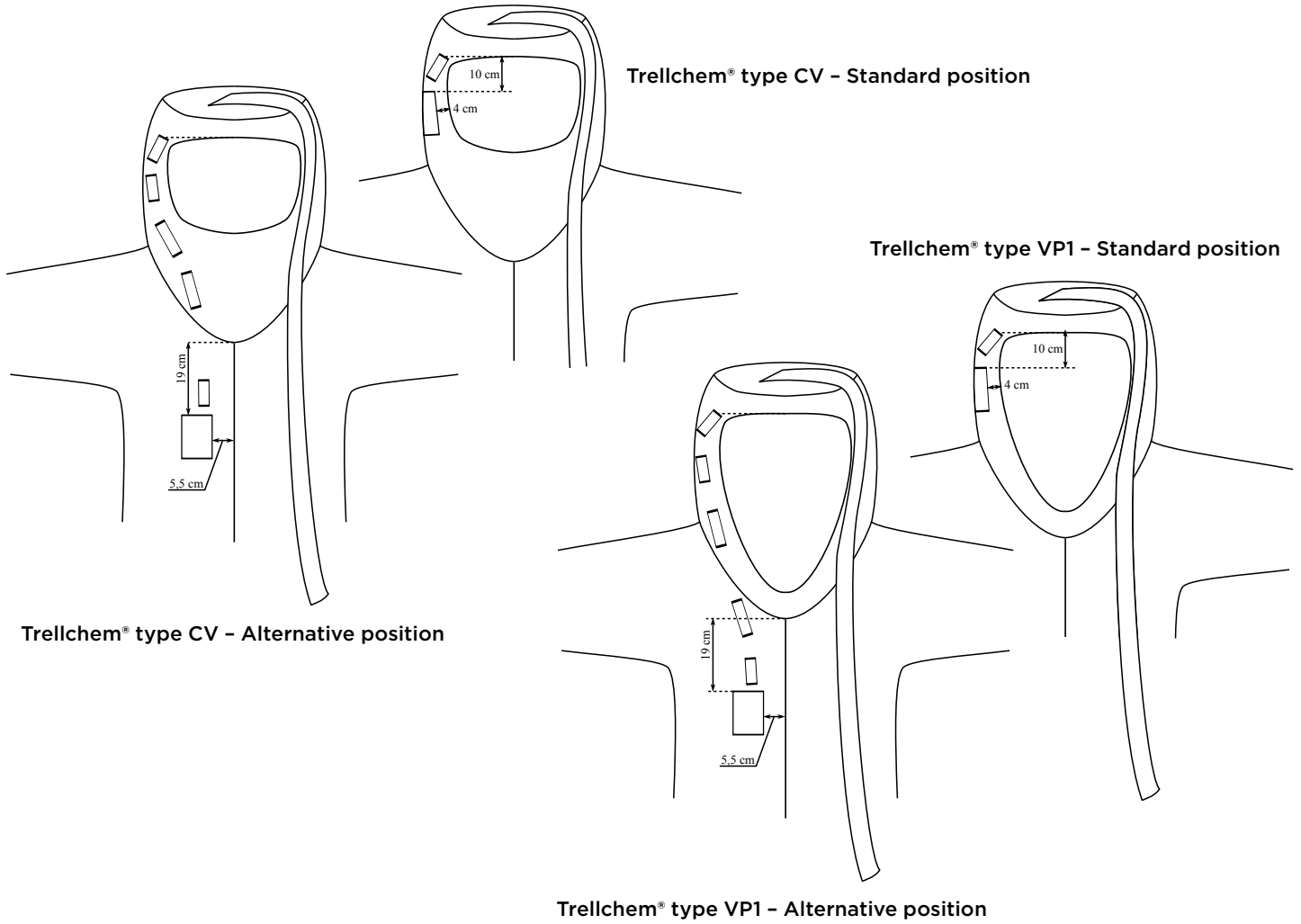


The Trellech[®] Hands-Free Visor Light System must be recycled according to EU and local regulations for electronic waste and must not be disposed of together with household or other municipal waste.

TRELLCHEM[®] Hands-Free Visor Light System. US Patent Pending.

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