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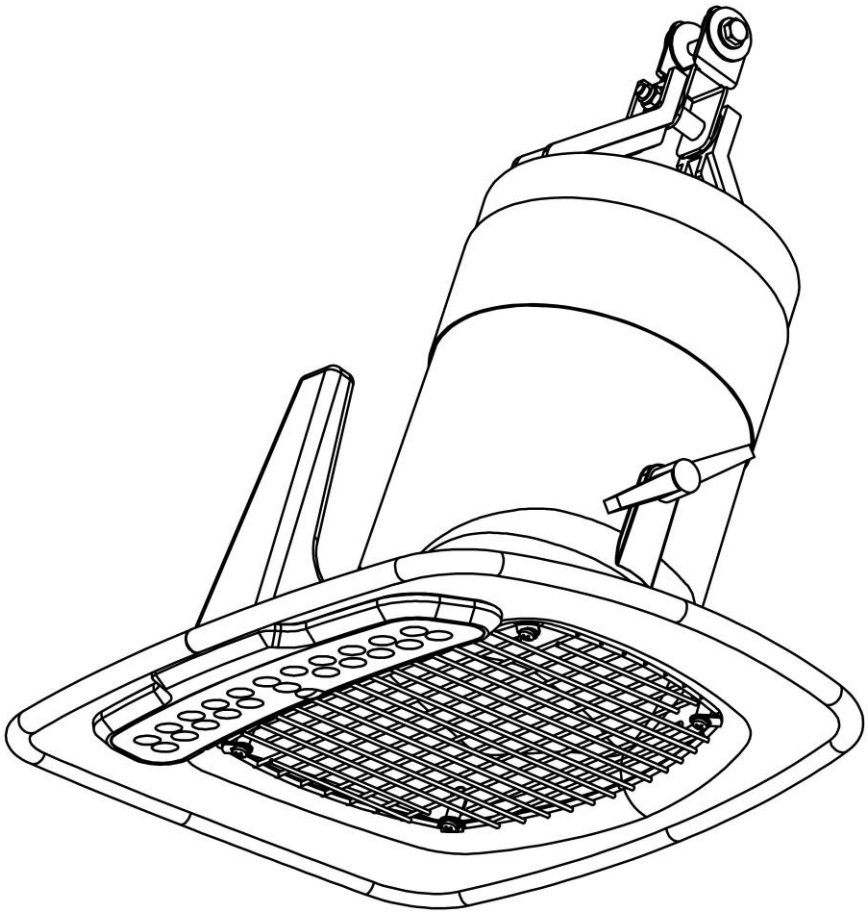

The Hood / The Hood Pro

EN – Operating Manual

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1 General

1.1 Introduction

This manual is an essential aid for the proper and safe operation of the product.

These operating instructions contain important information to ensure safe, proper and efficient operation of the product. Observing these instructions helps avoiding danger, reducing repair costs and downtimes and increasing the reliability and service life of the product. The operating instructions must be kept available at all times and have to be read and applied by every person who is assigned to work on or with the product.

These include amongst others:

- the operation and troubleshooting during operation
- the maintenance (care, maintenance, repair)
- the transport
- the assembly
- the disposal

Technical modifications and errors expected.

1.2 References to copyright and industrial property rights

These operating instructions are to be kept confidential and made accessible only to authorised persons. Disclosure to third parties is only permitted with the prior written consent of the manufacturer KEMPER GmbH.

All documents are protected under the Copyright Act. Any form of disclosure, reproduction, or partial use, as well as the communication of its content, is prohibited without express written permission.

Violations will be prosecuted under criminal law and will incur liability for any resulting damages.

Industrial property rights such as patents, trademarks, or designs are exclusively held by the manufacturer.

1.3 Notes for the operating company

The operating instructions are an essential part of the product.
The operating company must ensure that the operating personnel is aware of the contents of this manual.

Based on national regulations for accident prevention and environmental protection, the operating instructions are to be supplemented by the operating company's own operating instructions, including information on regulatory and reporting requirements to meet specific operating requirements, such as work organisation, work flow and staff employed. In

addition to the operating instructions and the relevant obligatory regulations for accident prevention applicable in the country of use, it is also imperative to comply with the recognised technical rules for safe and professional handling.

Without prior consent from the manufacturer, the operating company may not carry out any changes, conversions or additions to the product which may impair safety. Spare parts used must comply with the manufacturer's specified technical requirements. This is always the case with original replacement parts.

Only use trained and instructed staff for the operation, maintenance, repair and transport of the product. Clearly define for staff who is responsible for operation, maintenance and transport.

1.4 Legal information

All information in this manual has been compiled with the greatest care. Subject to technical modifications, errors and print errors. We assume no liability for damage caused by failure to comply with this manual.

2 Safety

2.1 General information

The product is designed and built according to state-of-the-art technology and the recognised safety rules and regulations. When operating the product, technical hazards for the operator or impairment of the product as well as other property may occur, if:

- it is not operated by trained or instructed personnel
- it is not used for the purpose intended and/or
- it is improperly maintained

2.2 Information on signs and symbols

⚠ DANGER

This symbol in conjunction with the signal word "Danger" indicates imminent danger. Non-adherence of the safety note leads to death or serious injuries.

⚠ WARNING

The symbol in conjunction with the signal word "Warning" indicates a potentially dangerous situation. Non-adherence to the safety notice may lead to death or serious injuries.

⚠ CAUTION

The symbol in conjunction with the signal word "Caution" indicates a potentially dangerous situation. Non-adherence of the safety note may lead to slight or negligible injuries.
May also be used for warnings against property damage.

NOTE

The general information is simple additional information which does not warn about personal injury or property damage.

1. Enumerations of action steps are marked as numbers with a dot, where the order is important.

- Bullet points indicate lists of parts in a legend or instructions for which the sequence is unimportant

2.3 Markings/signs to be affixed by the operating company

The operating company is obliged to post further markings and signs on the product and the surrounding area if necessary.

Such markings and signs might be related, for example, to the requirement for wearing personal protective equipment.

2.4 Safety instructions for operating staff

Before use, the operator of the product must be instructed through information, instructions and training on the handling of the product and the materials and aids to be used.

The product system may only be used in technically perfect condition, for its intended purpose, in full awareness of the safety aspects and potential dangers and in accordance with these instructions. All errors, especially those that may affect safety, must be removed immediately.

Every person who is charged with commissioning, operation or maintenance must have fully read and understood these operating instructions. This specifically applies to staff who only operate the product occasionally.

The operating instructions must always be within reach of the product.

We accept no liability for any damages or injuries caused by failure to observe these operating instructions.

The relevant accident prevention regulations and other generally recognised safety and occupational health regulations must be observed.

The responsibilities for the various activities included in maintenance and repair must be clearly defined and adhered to. Only then will human error - especially in dangerous situations - be avoided.

The operating company is to enforce wearing of personal protective equipment by operating and maintenance staff. These include in particular safety shoes, safety glasses and gloves.

Do not wear loose, long hair, loose clothing or jewellery. In theory, there is a risk of getting caught on something, or being pulled in or dragged along by moving parts.

If there are any safety-related changes to the product, immediately halt the process, secure it and report the occurrence to the relevant authority/person!

Work on the product may only be carried out by reliable, trained staff. Observe the minimum legal age.

Staff who require training, teaching or instructing or staff who undergo a general apprenticeship may only operate the product under the supervision of an experienced member of staff.

2.5 Safety instructions for maintenance/troubleshooting

Service and maintenance doors must be freely accessible at all times.

Setting up, maintenance and repair work and troubleshooting must only be performed when the product is switched off.

Always tighten bolt connections that have been loosened during repair work. If specified, tighten the relevant bolts with a torque wrench.

In particular, protect connections and screw connections from dirt or care products at the beginning of maintenance/repair/care

The time frames for periodic testing/inspections stipulated or specified in the operating instructions must be observed.

Before disassembling, mark the parts that belong together.

2.6 Notes regarding special types of hazard

⚠ WARNING

Health hazards caused by welding fume particles

Do not inhale welding dust / smoke! Serious injury to the lungs and respiratory tract is possible!

Sweat smoke contains substances that can cause cancer!

Skin contact with cutting and welding fumes etc. can cause skin irritation in sensitive persons!

Repair and maintenance work on the product may only be carried out by trained and authorised personnel while complying with the safety rules and the applicable accident prevention regulations.

To avoid contact with and inhalation of the dust particles, wear disposable overalls, protective goggles, gloves and a suitable Class FFP2 respiratory protection filter mask in accordance with EN 149.

The release of hazardous dust particles during repair and maintenance is to be avoided to ensure that persons not charged with the task are not affected.

⚠ DANGER

Danger of electric shock!

Any work on the electrical equipment of the product must only be performed by a qualified electrician or by operating personnel under the direction and supervision of a qualified electrician in accordance with electronic regulations.

Before opening the product, pull the plug, if available, and secure it against accidental switch-on.

For faults with the product's electrical energy supply, immediately switch the product off at the on/off switch and if available, also pull the plug.

Use only original fuses with the prescribed amperage.

Electrical components, on which inspection, maintenance and repair work must be carried out, must be disconnected from the power supply. Secure equipment that has been used for disconnection against unintentional or automatic reconnection. Firstly check that no voltage is present in activated, electrical components, then isolate adjacent components under voltage. When making repairs, ensure that constructive characteristics are not altered in a way that reduces safety.

Check cables regularly for damage and replace if necessary.

⚠ CAUTION

Health hazard due to noise!

The product can produce noise, please refer to information in the technical data. In connection with other machines and/or local conditions, a higher noise level can occur at the operation site of the product. In this case, the operating company is obliged to provide the operating personnel with the appropriate protective equipment.

⚠ WARNING

Danger due to dazzling

When processing highly reflective workpieces, the integrated lighting of the product may dazzle the eyes.

This may temporarily impair vision and consequently lead to operating error or the risk of injury.

⚠ WARNING

Warning of stroboscopic effect

Due to the design, a stroboscopic effect may occur under certain lighting conditions or in combination with other light sources. This effect can cause rotating or moving machinery parts to appear stationary and therefore cause a substantial risk of accident.

Make sure therefore that the work area is also sufficiently and evenly illuminated with suitable general lighting.

ATTENTION

Notice: Lighting is not a main light source

The integrated lighting of the product is used solely to provide additional local lighting of the work area.

Use as sole workplace lighting is not permitted.

To provide a safe working environment, additional, even general lighting in accordance with the workplace specifications is required.

3 Product information

3.1 Distinguishing features

The product is manufactured in two variants:

- **Product without control board and without LED lighting unit**
- **Product with control board and with LED lighting unit**

NOTICE

Visually the product variants look identical.

3.2 Functional description

The product is used to extract welding fumes that are generated when welding metallic materials.

For effective detection, the product must be manually moved close to the source of the welding fumes.

The extraction hood captures welding fumes right at the point where they are produced and forwards them to the filter unit via an extraction system. There, potentially harmful substances such as fine dust and metal oxides are removed from the air.

The hood helps comply with statutory limit values and protects employees against breathing in harmful substances. In this way, it supports a safe and clean working environment.

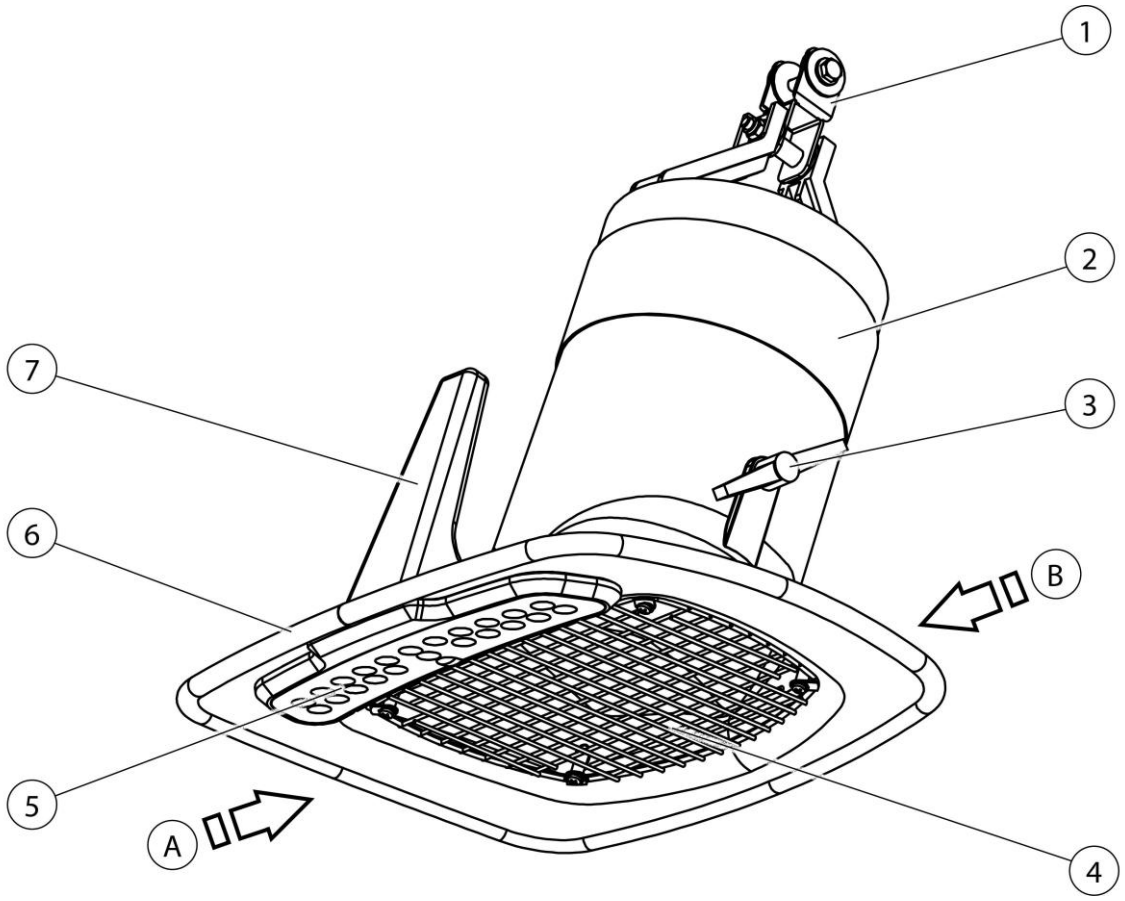


Fig. 1: Functional description

Pos.	Description	Pos.	Description
1	Fastener	5	LED lighting unit
2	Rubber sleeve	6	Impact protection rubber profile
3	Twist grip butterfly valve	7	Handle/ guide handle
4	Protective mesh		

Tab. 1: Functional description

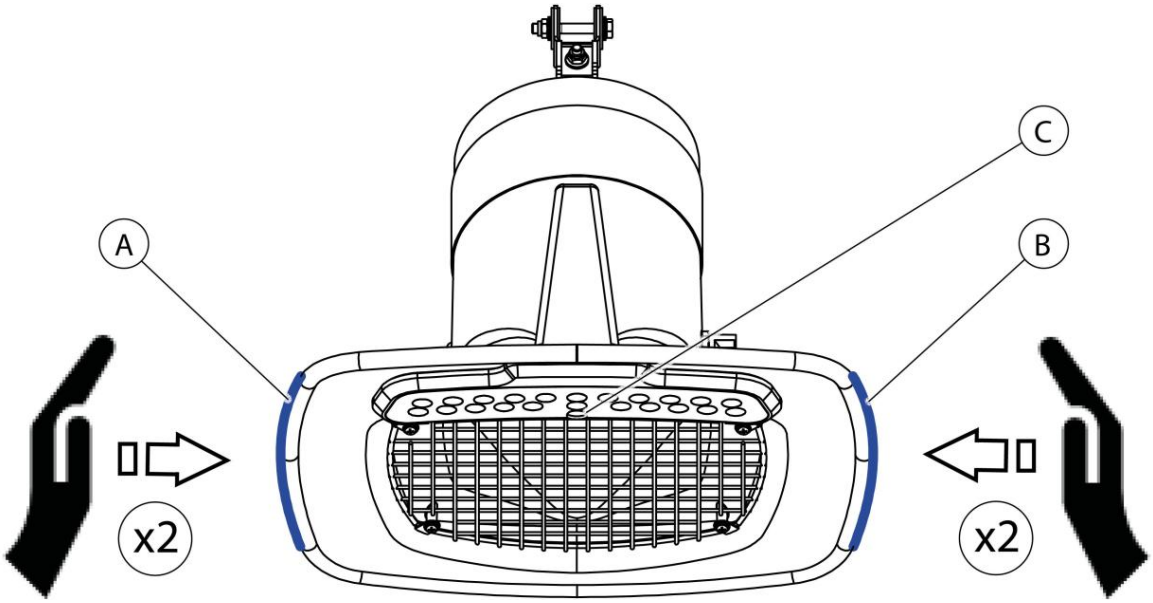


Fig. 2: Functional description

Pos.	Description	Function
A	Tap surface (double-tap)	Switches the lighting unit on or off
B	Tap surface (double-tap)	Switches the connected extraction unit on or off
C	Status LED	Signals the functional status see: Operating controls and troubleshooting chapter

Tab. 2: Functional description

3.3 Intended use

The product is designed to extract welding fumes generated during E-welding from their point of origin. In general, the product can be used for all work processes in which welding fumes are released. However, it is important to ensure that no "sparks" are drawn into the product from, e.g. a grinding process.
The product must not be used in an explosive atmosphere and not for the extraction of an explosive atmosphere.

The product is not suitable for the extraction of acid or caustic vapors.

The technical data includes the dimensions and further details for the product which have to be observed.

NOTE

The information in the chapter Technical data must be observed and strictly adhered to.

Intended use also includes the observation of the instructions and information on

- safety
- operation and control
- maintenance and servicing

contained in this manual.

Any other use or use going beyond this is considered improper use. The company operating the product is solely responsible for any damage resulting from it. This also applies to unauthorised modifications to the product.

3.4 Reasonably foreseeable misuse

No reasonable, foreseeable misuse is possible that could lead to dangerous situations with personal injury when working with the product whilst adhering to its intended use.

The operation of the product in industrial areas that do not comply with the requirements for explosion protection is not permissible.

Furthermore, the operation is prohibited for:

1. Processes that are not in the intended use list and in which the extracted air is:

- is mixed with sparks, e.g. from grinding processes, which due to their size and quantity might lead to damage to the filter media or even to a fire;
- mixed with liquids and the resulting contamination of the air flow with vapours containing aerosols and oils;
- mixed with highly flammable, combustible dust and/or with substances that can form explosive mixtures or atmospheres;
- is mixed with other aggressive or abrasive dust that could damage the product and the filter elements employed;
- is mixed with organic, toxic substances or a proportion of substances that are released when cutting the material.

2. Outdoor locations where the product is exposed to weather conditions because the product must only be installed in closed buildings.
   If there is an outdoor variant of the product available, this may be installed outside. Please note that additional accessories may be required for the outdoor installation.

3.5 Markings and signs on the product

Various markings and signs are affixed to the product. If these are damaged or removed, please replace them immediately with new ones in the same location.

The operating company is obliged to post further markings and signs on the product and the surrounding area if necessary.

Such notes and signs might be related, for example, to the requirement for wearing personal protective equipment.

In the country of use, additional required safety instructions and pictograms can be provided by the manufacturer in accordance with applicable law.

3.6 Residual risk

Despite design measures to reduce risk and comply with the relevant standards, especially DIN EN ISO 12100 and DIN EN ISO 21904-1, residual risks remain with the use of the product.

These residual risks result from the process-related properties of the capture and separation of the welding fumes and cannot be ruled out fully either in the case of operation as per the intended use.

All persons working on and with the product must be aware of this residual risk and follow the instructions that prevent these residual risks from causing accidents or damage.

The following residual risks exist:

- **Residual emission of welding fumes:** Complete capture of fumes and gases produced during welding is technically not possible. This may result in a residual exposure to harmful substances.
- **Health hazard with insufficient capture:** In the case of unfavourable capture (positioning of the extraction hood) or insufficient airflow volume, the effectiveness of the extraction may be reduced.
- **Hazard with system malfunctions:** In the event of a failure or reduced performance of the system, the pollution may increase unnoticed.
- **Release of hazardous substances with maintenance work:** When handling filter elements, accumulated pollutants may be released.
- **Fire risk due to sparks or hot particles:** The ingestion of sparks or glowing particles may cause an ignition in the filter system.

The operating company must take these residual risks into account as part of the risk assessment.

⚠ WARNING

Danger of serious injury to the lungs and respiratory tract! – Always wear respiratory protection, Class FFP2 or higher.

Skin contact with welding dust, grinding dust or cutting dust may cause skin irritation in sensitive persons – wear protective clothing.

During setup and preparation work, it may be necessary to dismantle on-site safety devices. This creates various residual risks and potential hazards that the operating personnel must be aware of.

Only process pieces of metal and workpieces if the product is connected to a correctly dimensioned/adjusted extraction system.

4 Transport and Storage

4.1 Transport

NOTE

The product must:

- only be transported in the original packaging.
- not fall.
- be protected from moisture.

4.2 Storage

The product should be stored in its original packaging
at an ambient temperature of -20 °C to +50 °C in a dry and clean place. The packaging must not be loaded by other objects.

5 Assembly

5.1 Unpacking and assembling the product

ATTENTION

The operating company of the product may only assign specialists to carry out the independent assembly.

NOTE

The extraction arm and/or the support frame must be fully assembled for the assembly of the extraction hood.

The optional required cable routing up to the extraction hood must be prepared.

The extraction arm is not included in the scope of supply of this product.

NOTE

If add-on products are also present, follow the enclosed manuals when assembling them.

Assemble the product as follows:

1. Open the product packaging and remove the product with the accessories.

⚠ CAUTION

Caution: Risk of damage!

Exercise caution when opening with sharp objects! Do not cut too deeply!

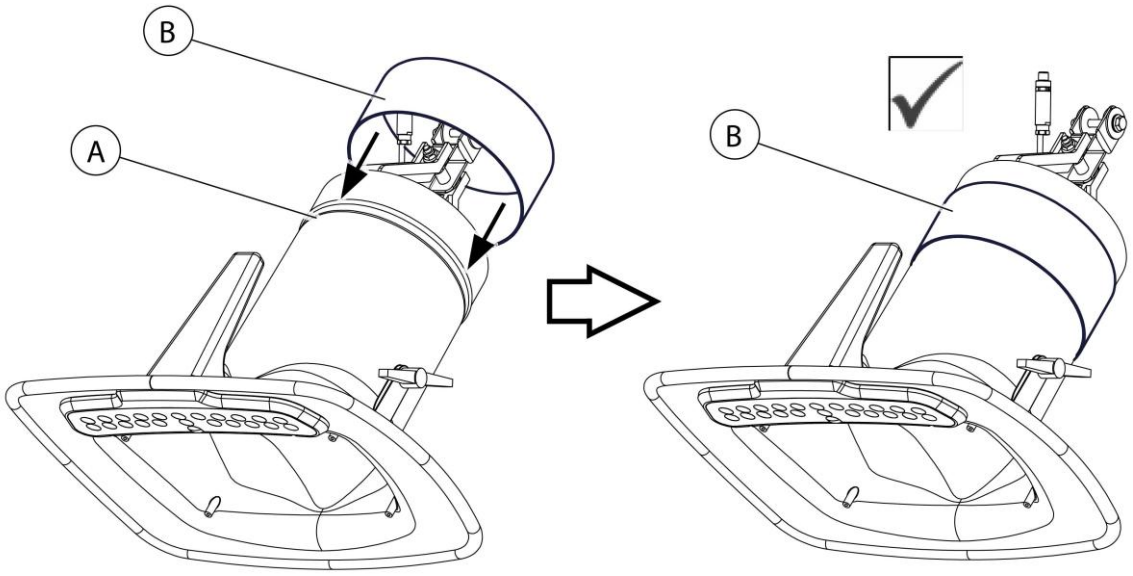


Fig. 3: Assembly – rubber ring

Pos.	Description	Pos.	Description
A	Slewing ring (air gap)	B	Rubber ring (sleeve)

Table 3: Assembly – rubber ring

2. Before starting the assembly, pull the enclosed rubber ring (Pos. B) as per the figure over the slewing ring (Pos. A) of the product.

ATTENTION

The rubber ring is used to seal the air gap on the slewing ring and prevents the intake of external air.

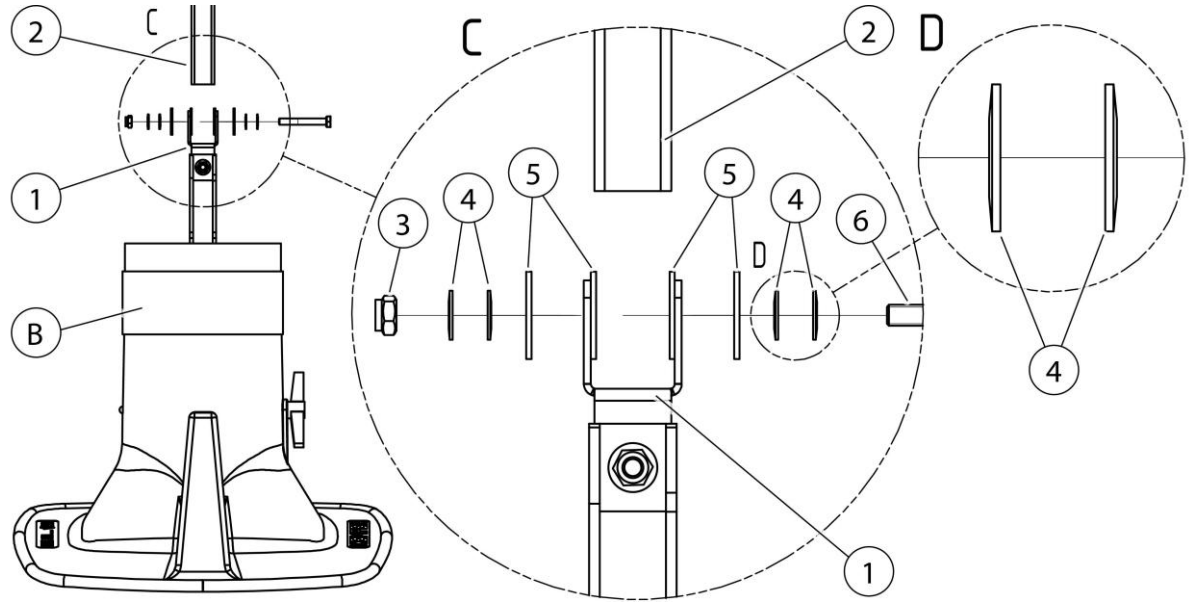


Fig. 4: Assembly – Assembling the product with the support frame

Pos.	Description	Pos.	Description
1	Product fastener	4	Belleville washer (4 x)
2	Square tube - support frame	5	Brake disc (4 x)
3	Hexagon nut	6	Hexagon bolt

Table 4: Positions on the product

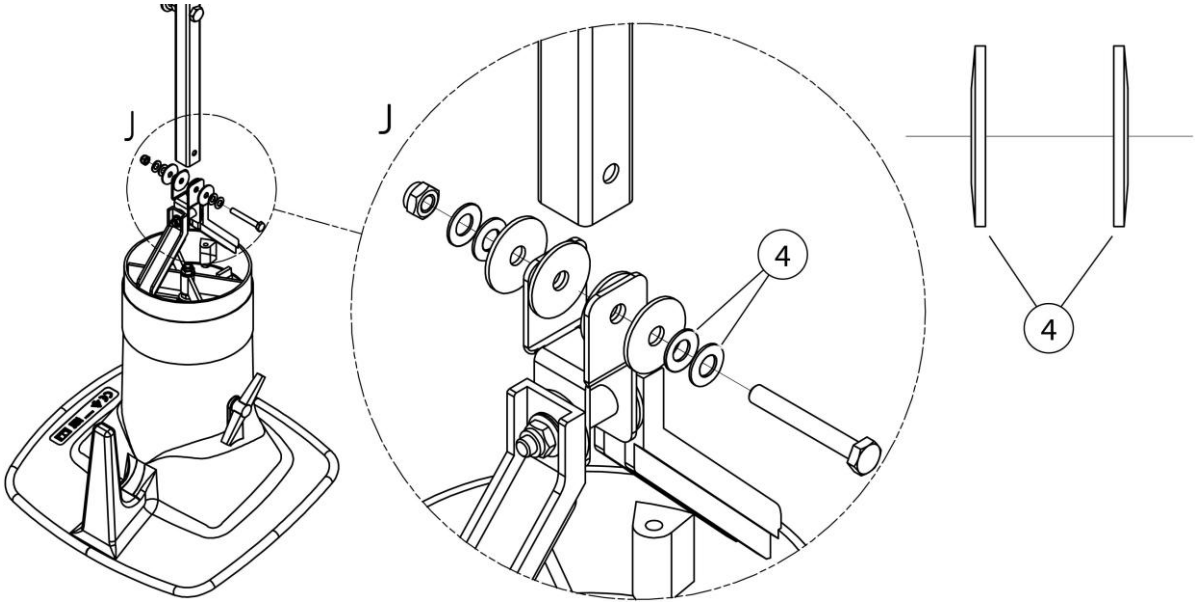


Fig. 5: Assembly – Assembling the product with the support frame

3. Connect the fastener (Pos. 1) of the hood to the square tube of the support frame (Pos. 2). When doing so, make sure that the brake discs (Pos. 5) and Belleville washers (Pos. 4) are assembled according to the figure.

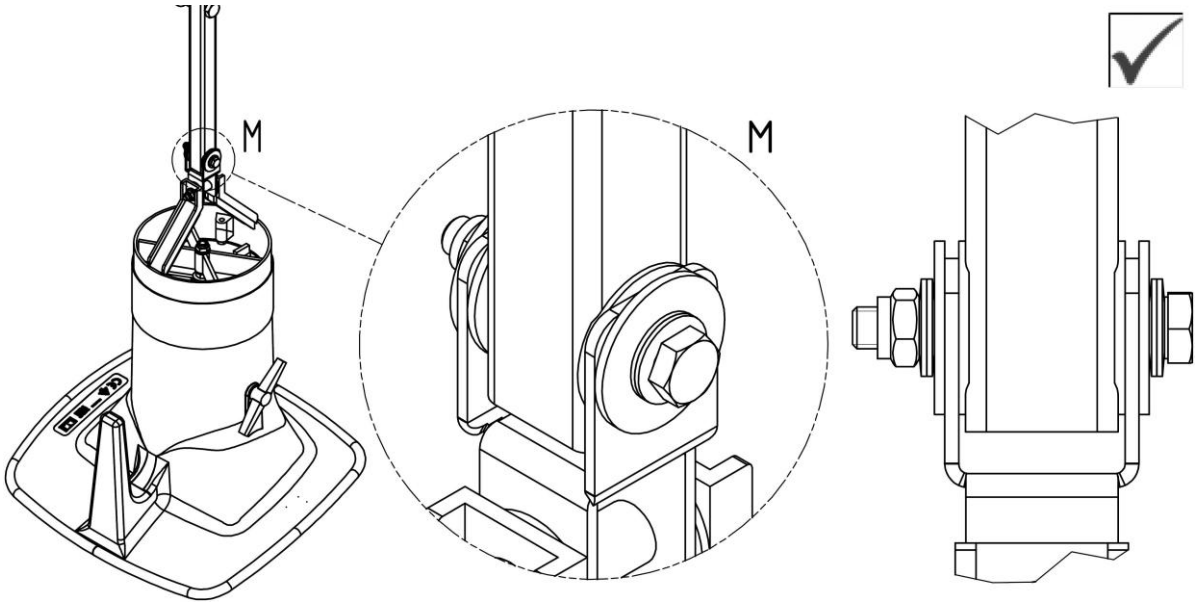


Fig. 6: Assembly – Assembling the product with the support frame

5.1.1 Assembly – Product LED lighting unit (optional)

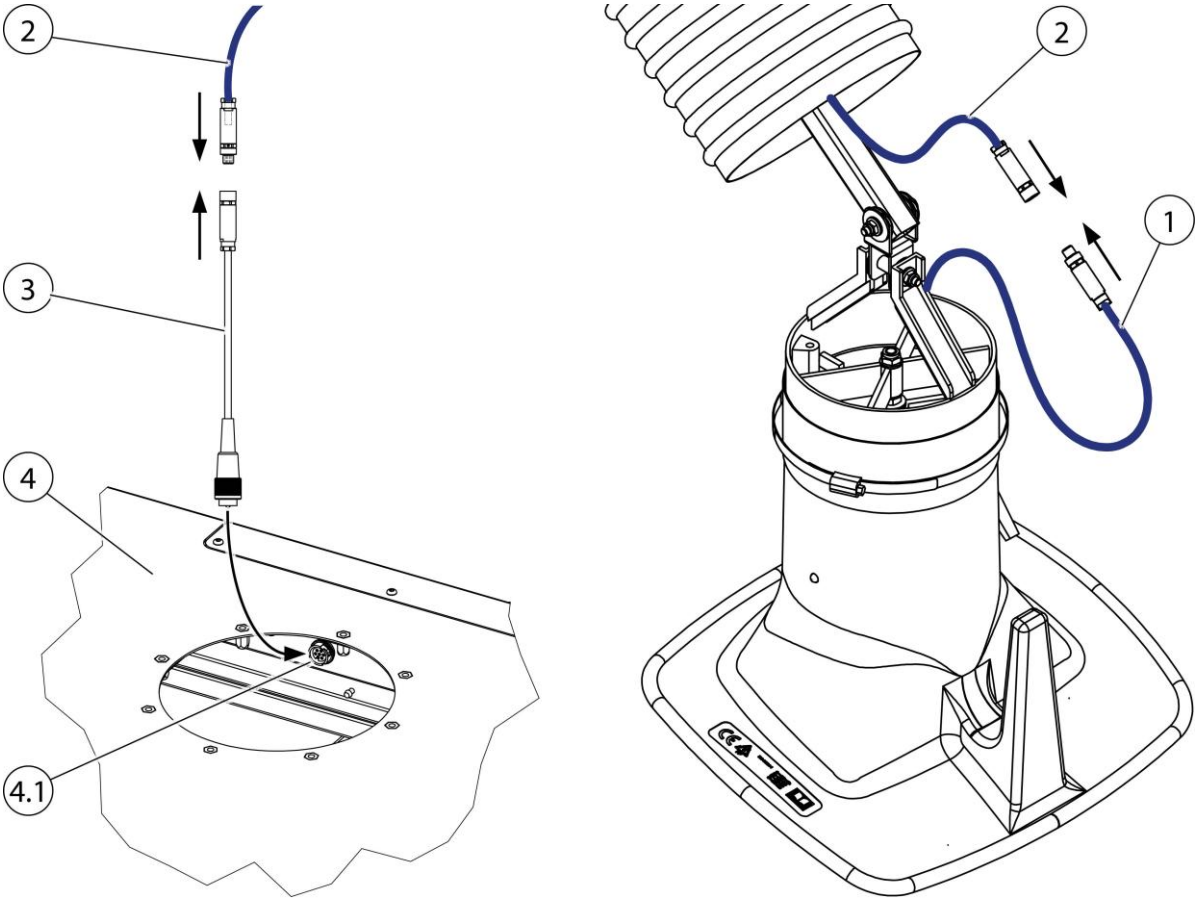


Fig. 7: Assembly – Product with control board and lighting

Pos.	Description	Note
1	Product connection cable with M8 plug	
2	Cable set length: 5.0 m/ 10.0 m/ 15.0 m (optional)	Can be selected depending on the length of the extraction arm (see Spare parts and accessories chapter)
3	Adapter cable	Adapter for connection to extraction unit and cable set
4	Extraction unit	Sample illustration
4.1	Connection socket	Sample illustration

Table 5: Assembly – Connection for control board

NOTE

Route the cable according to the figure, plug in and secure with the union thread.

When routing, make sure that the cables are not crushed or overtensioned.

5.2 Assembly – Optional accessories

5.2.1 Assembling the butterfly valve (optional)

Assemble the butterfly valve as follows:

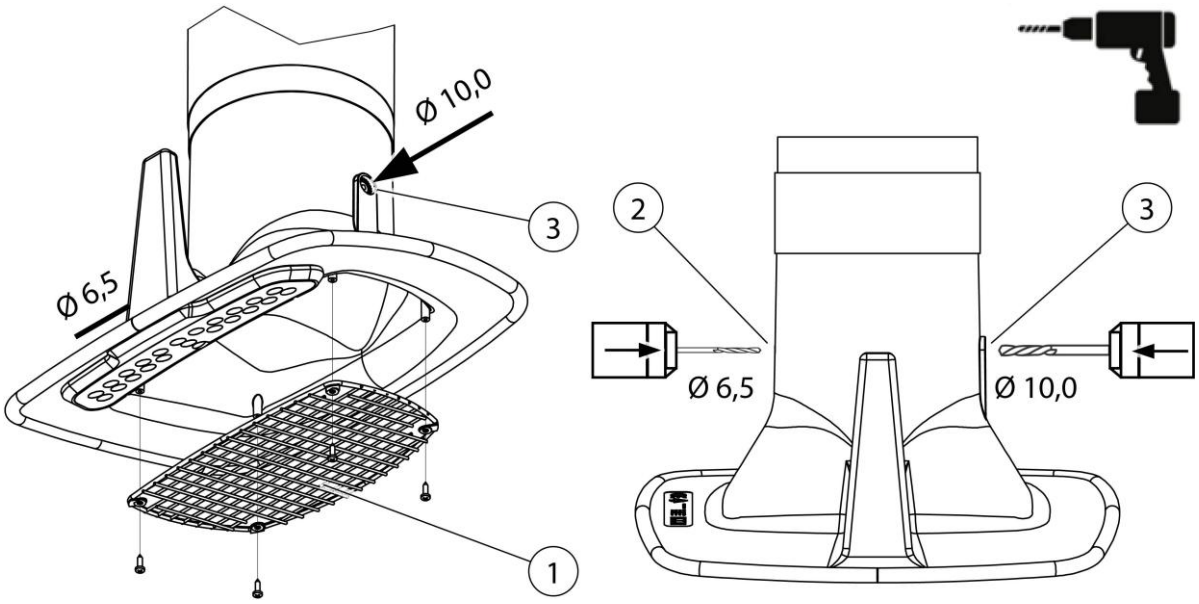


Fig. 8: Assembly – Preparing the extraction hood

Pos.	Description	Pos.	Description
1	Protective mesh	3	Guide bore Ø 10.0 mm
2	Guide bore Ø 6.5 mm		

Tab. 6: Assembly – Preparing the extraction hood

1. Get the butterfly valve ready. (See also the Spare parts and accessories chapter)
2. Remove the protective mesh (Pos. 1).
3. Make the necessary bores as per the figure:
   Drill guide bore (Pos. 2) = Ø 6.5 mm
   Drill guide bore (Pos. 3) = Ø 10.0 mm

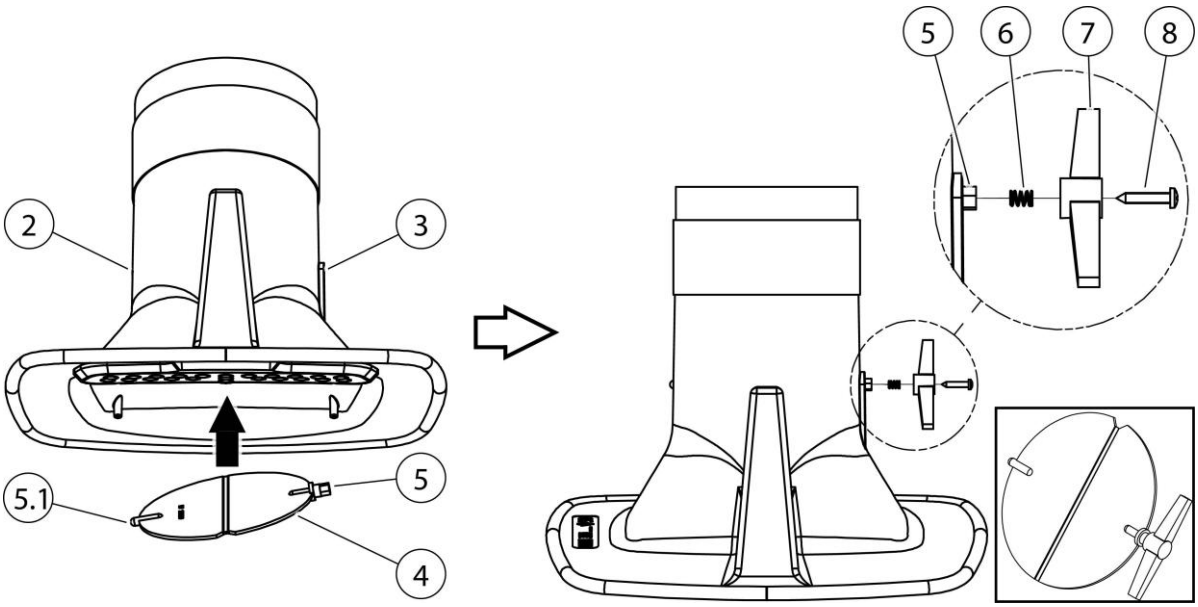


Fig. 9: Assembly – Assembling the butterfly valve

Pos.	Description	Pos.	Description
2	Guide bore Ø 6.5 mm	5.1	Guide pin - butterfly valve
3	Guide bore Ø 10.0 mm	6	Coil spring
4	Butterfly valve	7	Twist grip
5	Hexagon guide pin - butterfly valve	8	Screw - cross slot

Tab. 7: Assembly – Assembling the butterfly valve

4. Insert the butterfly valve into the hood. To do so, first insert the hexagon guide pin (Pos. 5) into the guide bore (Pos. 3).
5. Then insert the butterfly valve into the hood using some pressure and bending so that the guide pin (Pos. 5.1) springs into the guide bore (Pos. 2).
6. Screw together the twist grip (Pos. 7) and the butterfly valve (Pos. 5) as per the figure. When screwing them together, note (Pos. 5, 6, 7, 8).

NOTICE

When screwing together, note that the twist grip is screwed together in parallel in a line with the butterfly valve.

5.2.2 Assembling the LED lighting unit (optional)

Assemble the LED lighting unit as follows:

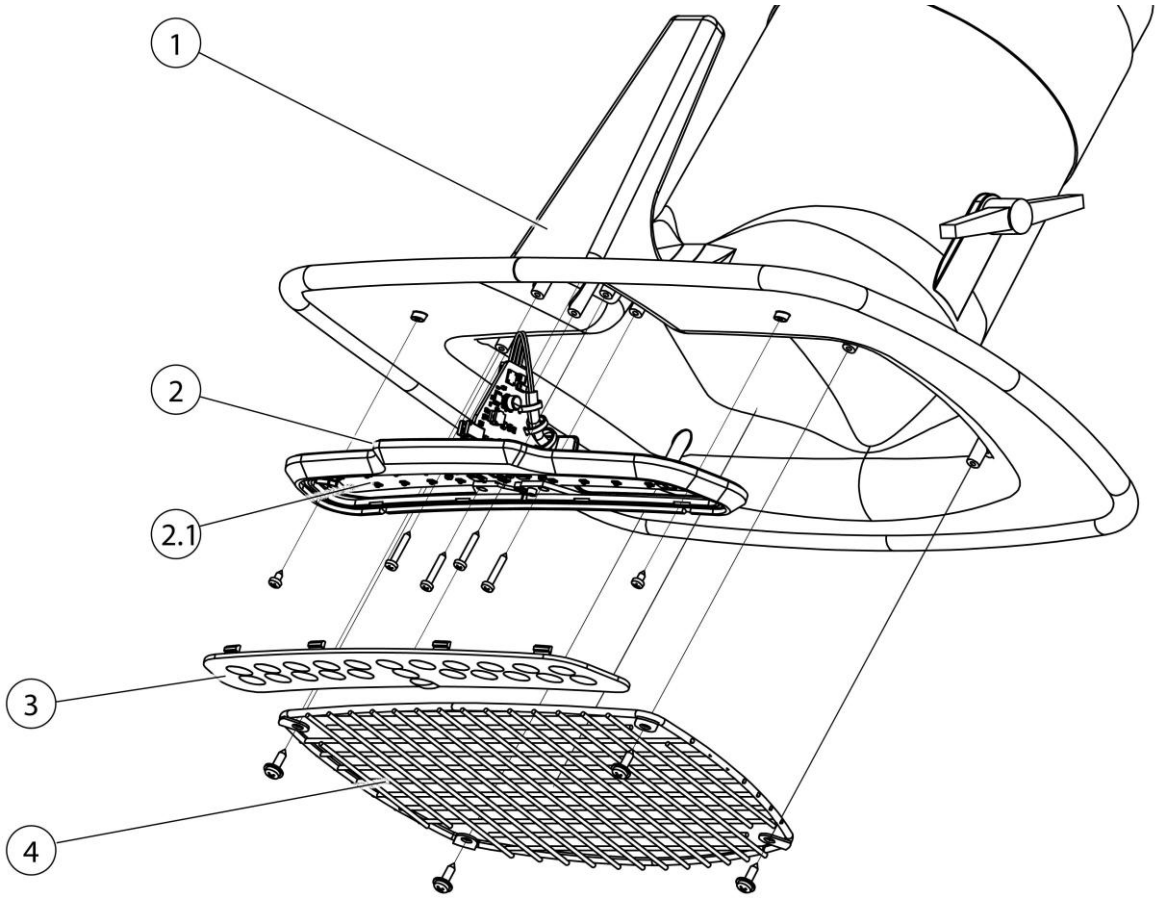


Fig. 10: Assembling the LED lighting unit

Pos.	Description	Pos.	Description

1	Extraction hood	3	Plastic lens holder
2	LED lighting unit/ mounting frame	4	Protective mesh
2.1	LED board		

Tab. 8: Assembling the LED lighting unit

1. Get the LED lighting unit ready. (See also the Spare parts and accessories chapter)
2. Remove the protective mesh (Pos. 4).
3. Remove the plastic lens holder (Pos. 3). (See also the Maintenance – Replacing the plastic lens holder chapter)
4. Remove the LED lighting unit/ mounting frame. To do so, unscrew the six fastening screws.
5. Assemble the new LED lighting unit (Pos. 2) and re-secure with the six fastening screws.

ATTENTION

Screw in the two outer short screws carefully with minimal torque until the seal surface makes contact.

⚠ CAUTION

Caution – risk of damage to the LED board!

The LED board and the LEDs on it are sensitive to mechanical loads and electrostatic discharge.

Avoid touching the board components.

6. Insert the plastic lens holder (Pos. 3). To do so, insert the plastic lens holder into the LED lighting unit and then press all around until all the latching lugs click audibly into place.

Cable routing:

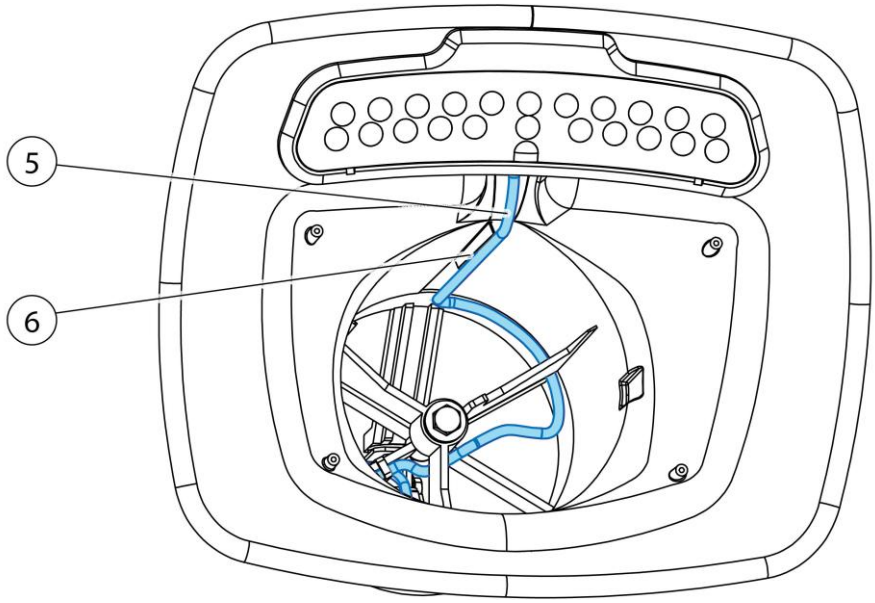


Fig. 11: Assembling the cable routing

Pos.	Description	Pos.	Description
5	Connection cable	6	Cable guide

Tab. 9: Assembling the cable routing

7. Press the connection cable (Pos. 5) into the cable guide as per the figure.

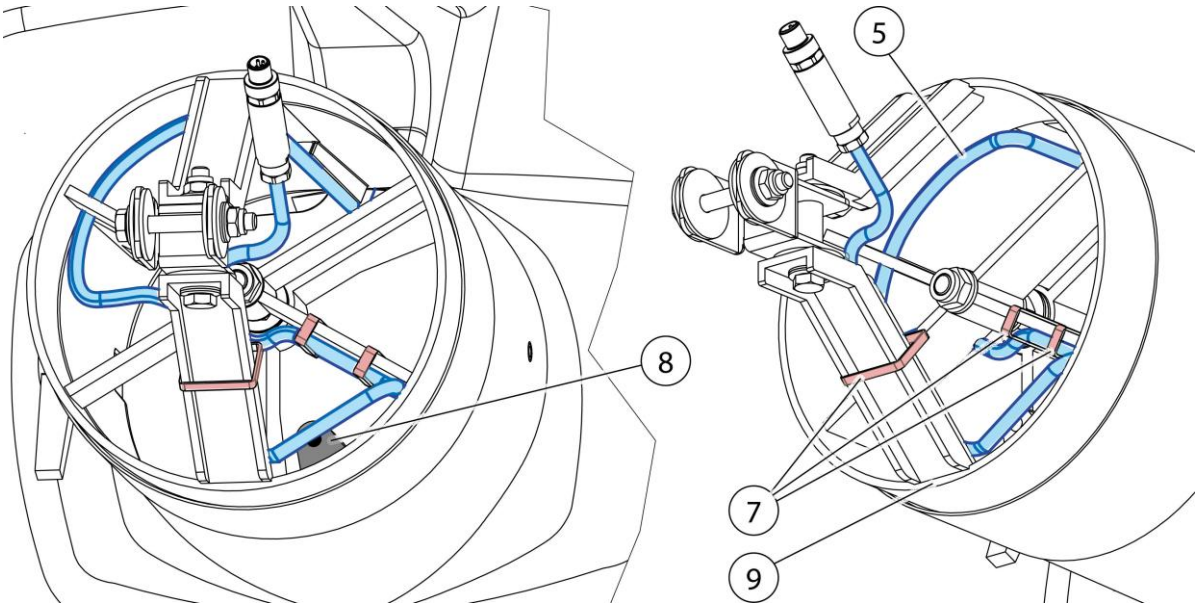


Fig. 12: Assembling the cable routing

Pos.	Description	Pos.	Description
5	Connection cable	8	Stop - slewing ring
7	Cable tie	9	Slewing ring

Tab. 10: Assembly. Cable routing

8. Route the connection cable (Pos. 5) as per the figure in a large loop in the slewing ring (Pos. 9).
9. Fix the cable (Pos. 5) with the enclosed cable ties (Pos. 7).

ATTENTION

Risk of damage to the connection cable!

When routing in the slewing ring, ensure that the cable is not crushed or overtensioned.

Rotate the slewing ring over the entire range of movement (approx. 330°) and check the cable for crushing and overtensioning.

NOTICE

If attachment parts are also present, follow the enclosed manuals when assembling them.

6 Use

Every person who deals with use, maintenance and repair of the product must have thoroughly read these operating instructions as well as the instructions for any attachment and accessory products and have understood them.

6.1 Qualification of the operating personnel

The operating company of the product may only commission persons to use the product independently if they are well-versed in this task.

Those familiar with this task includes those who have been instructed appropriately in the task and know the operating instructions as well as the operational issues in question.

The product should only be used by trained or instructed personnel.
This is the only way to ensure safety and hazard awareness of all personnel during work.

6.2 Operating controls

The product variant with control board and LED lighting unit is fitted with integrated impact and acceleration sensors which react to double taps and execute switch functions.

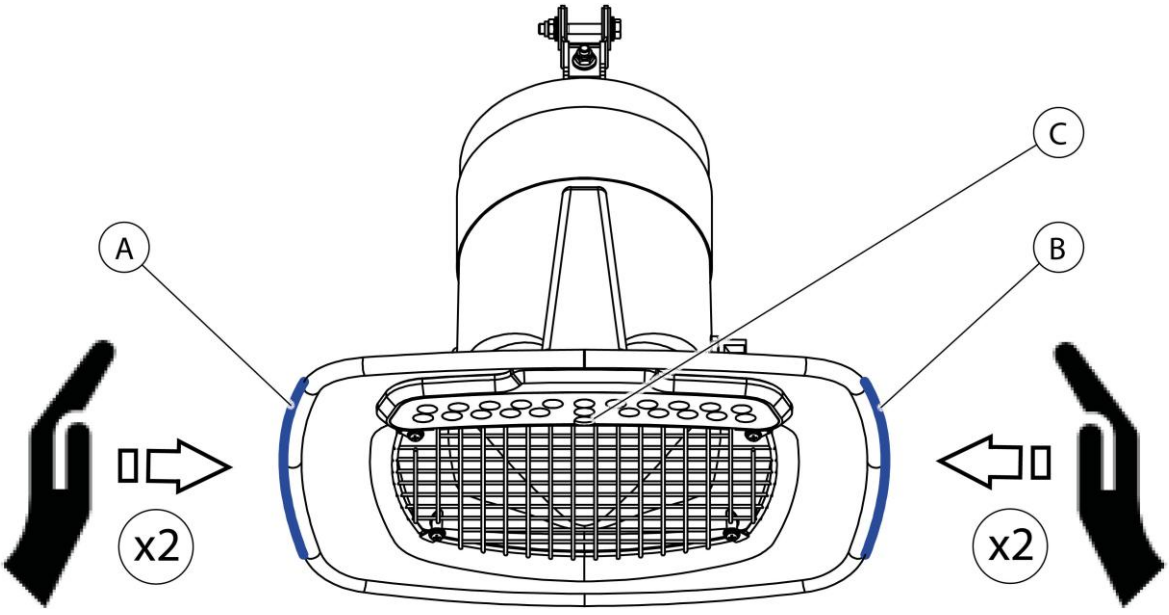


Fig. 13: Operating controls

Pos.	Description	Function
A	Tap surface (double-tap)	Switches the lighting unit on or off

B	Tap surface (double-tap)	Switches the connected extraction unit on or off
C	Status LED	Signals the function status See troubleshooting chapter

Tab. 11: Operating controls

Status of LED flashing codes - Normal mode

Flashing code	Flashing colour	Function
1x per 2 seconds	Green	Product is ready for use
1x per second	Magenta	Lighting unit switched on
2x per second	Magenta	Extraction unit switched on
Continuous	Magenta	Lighting unit and extraction unit switched on
Lights up for short period	Blue	Operation – double-tap detected

Tab. 12: Status of LED flashing codes

NOTICE

For other LED flashing codes, see the Troubleshooting chapter

6.3 Positioning the extraction hood

The extraction arm or extraction hood is designed in such a way that it can be adjusted and moved easily by hand. Once it has been positioned, the extraction hood maintains its set position of its own accord. Furthermore, both the extraction hood and the arm can be pivoted through 360° so that almost any position can be set. It is important that the extraction hood is always positioned properly in order to achieve adequate capture of the welding fumes. The correct position is shown on the following image.

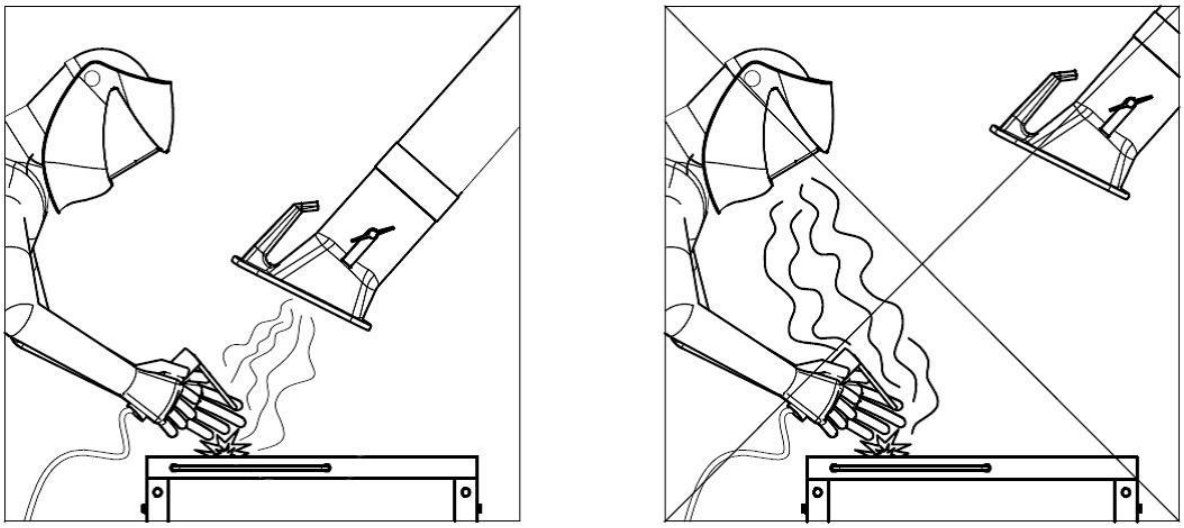


Fig. 14: Positioning the extraction hood

- Position the extraction arm so that the extraction hood is located approx. 25 cm diagonally above the weld.
- The extraction hood must be positioned so that it safely captures the welding fumes, taking into account the movement of welding fumes caused by the heat and the extraction range.
- Always move the extraction hood with respect to the weld position as you advance.

⚠ WARNING

An incorrectly positioned extraction hood or too low an extraction capacity do not ensure that air containing hazardous substances is captured adequately by the extraction hood. This means hazardous substances can enter the area where the operating personnel breathes and cause severe damage to health.

7 Maintenance

The instructions in this chapter are intended as minimum requirements. Depending on the operating conditions, further instructions may be required to keep the product in optimal condition.

The maintenance and repair work described in this chapter must only be performed by specially trained repair personnel of the operating company.

Spare parts used must comply with the manufacturer's specified technical requirements.

This is guaranteed if original spare parts are used.

The safe and environmentally friendly disposal of operating materials and replacement parts must be ensured.

The safety instructions in these operating instructions must be observed during maintenance work.

7.1 Care

The care of the product is essentially limited to cleaning all surfaces of the product and – if present – checking the filter inserts.

The warning notices listed in the chapter "Safety notes for maintenance and fault removal" must be observed.

NOTE

The product may not be cleaned with compressed air. This may result in dust and/or dirt particles getting into the ambient air.

Proper care helps to maintain the product in a continuous functional state.

For optimum care and cleaning of the powder-coated surfaces, the following must be observed:

- Thoroughly clean the product monthly or as needed.
- Clean the exterior areas of the product with a suitable industrial vacuum cleaner of dust classification H or with damp soft cloths/industrial cotton wool.
- For stubborn dirt, use commercially available household cleaners. Avoid vigorous rubbing.
- Do not use any abrasive agents that scratch.
- Do not use any acidic or strongly alkaline cleaning agents.
- Do not use organic solvents containing esters, ketones, alcohols, hydrocarbons or similar.

7.2 Maintenance

Regular inspection and servicing have a positive effect on the reliable functioning of the product and should be done at least once a month.

Please observe the listed warning notices for maintenance listed in chapter “safety”.

⚠ WARNING

Warning of serious personal injury hazard

In the event of misconduct, there is a danger of serious bodily injury, e.g. crushing damage, fingers or hands tearing off due to uncontrolled movements of individual machine elements.

Repair and maintenance work on the product may only be carried out by trained and authorised personnel while complying with the safety rules and the applicable accident prevention regulations.

Maintenance and repair work and troubleshooting must be performed only when the plant is switched off.

7.3 Maintenance – Replacing the plastic lens holder

Replace the plastic lens holder as follows:

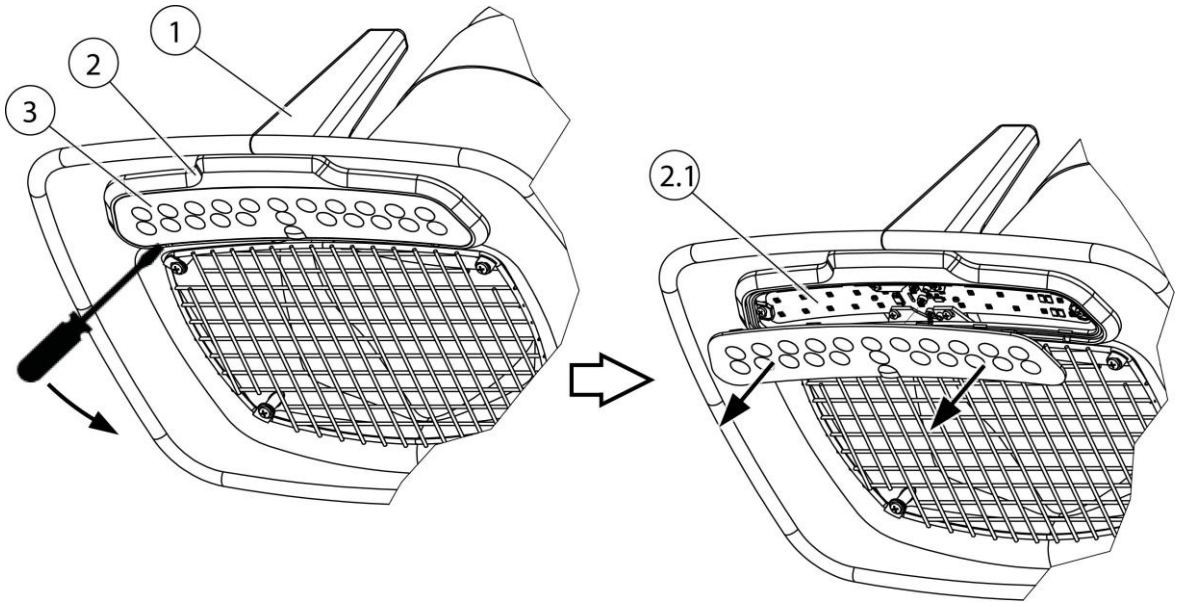


Fig. 15: Maintenance - Replacing the plastic lens holder

Pos.	Description	Pos.	Description

1	Extraction hood	2.1	LED board
2	LED lighting unit	3	Plastic lens holder

Tab. 13: Maintenance – Replacing the plastic lens holder

1. Get a new plastic lens holder (Pos. 3) ready.
2. Remove the defective plastic lens holder. To do so, apply a suitable lever tool between the LED lighting unit and the plastic lens holder as per the figure and carefully pry the plastic lens holder. Then pull off the plastic lens holder by hand.

⚠ CAUTION

Caution – risk of damage to the LED board!

The LED board and the LEDs on it are sensitive to mechanical loads and electrostatic discharge.

Avoid touching the board components.

3. Insert the new plastic lens holder (Pos. 3). To do so, insert the plastic lens holder into the LED lighting unit and then press all around until all the latching lugs click audibly into place.

7.4 Troubleshooting

Fault	Possible cause	Notice
Not all fumes are being captured	The butterfly valve of the extraction hood is closed	Open the butterfly valve
	Draught present	Eliminate draught
	Distance to the welding point too large	Move the extraction hood closer to the welding point
	Air duct blocked	Check the air duct
Extraction hood not working	No power supply available	Have the power supply checked by a qualified electrician
	Extraction unit not switched on	Switch on the extraction unit

Tab. 14: Troubleshooting

Flashing code (red)	Possible cause	Notice
1x per second	Power supply error	Wiring error, cable defective - have it checked by a qualified electrician
2x per second	Ambient temperature too high	Ventilate workplace, ensure sufficient cooling
3x per second	Too high load switched Short circuit, control board defective	Disconnect the product from the power supply for 30 seconds, Replace the control board, have it checked by a qualified electrician
4x per second	Component fault of the control board	Disconnect the product from the power supply for 30 seconds, Replace the control board, Have this checked by a qualified electrician

Tab. 15: Troubleshooting – Flashing codes

NOTICE

If the fault cannot be corrected by the customer, please contact the manufacturer’s service department.

8 Disposal

⚠ WARNING

Skin contact with welding fumes, etc. can cause skin irritation in susceptible individuals.

Disassembly work on the product may only be carried out by trained and authorised personnel while complying with the safety rules and the applicable accident prevention regulations.

Serious injury to the lungs and respiratory tract is possible!

In order to avoid contact with and inhalation of dust particles, use protective clothing, gloves and a blower respirator system.

The release of hazardous dust particles must be avoided during dismantling work so that persons in the vicinity are not harmed.

⚠ CAUTION

All work on and with the product must comply with the legal obligations for waste avoidance and proper recycling/disposal.

8.1 Plastics

Plastics, if present, must be sorted as far as possible. Plastics must be disposed of in compliance with the legal requirements.

8.2 Metals

Metals, if present, must be separated and disposed of.
Disposal must be carried out by an authorised company.

8.3 Filter elements

Filter elements, if present, must be disposed of in compliance with the legal requirements.

9 Annex

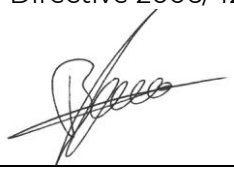
9.1 EU Declaration of Incorporation

Designation:	Add-on product
Series:	The Hood / The Hood Pro
Type:	79105, 79106 (possibly different article numbers for other product variants)
Machine ID:	(serial number) see the name plate on the product
	The product has been developed, designed and manufactured as partly completed machinery in accordance with EC directives 2006/42/EC – Machinery Directive
	At the sole responsibility of
Company:	KEMPER GmbH Von-Siemens-Str. 20, D-48691 Vreden The partly completed machinery must not be put into service until it has been established that the machinery into which the partly completed machinery is to be incorporated complies with the 2006/42/EC Machinery Directive.

The following harmonised standards are used:
EN ISO 12100:2010 Safety of machinery - General principles for design
EN 60204-1:2018 Safety of machinery - Electrical equipment of machines
EN ISO 13849-1:2023 Safety of machinery - Safety-related parts of control systems
EN IEC 61000-6-1:2019 Electromagnetic compatibility (EMC)
EN IEC 61000-6-4:2019 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
EN 60598-1+A:2021 Luminaires - General requirements and tests

A complete list of standards, directives and specifications applied is available from the manufacturer. The operating manual belonging to the product is available.

Authorised representative:
Kemper GmbH, Von-Siemens-Str. 20, 48691 Vreden, Germany
The aforementioned person is authorised to compile the technical documentation in accordance with Annex VII of Directive 2006/42/EC.



Vreden, 10.04.2026		CEO
Place, date	B. KEMPER	Identification of the signatory

9.2 UKCA Declaration of Installation

Designation:	Installation products
Series:	The Hood / The Hood Pro
Type:	**79105, 79106** (possibly different article numbers for other product variants)
Machine ID:	(Serial number) see type plate on product This product is developed, designed and manufactured in accordance with the UKCA directives Supply of Machinery (safety) Regulations 2008
Company:	At the sole responsibility of **KEMPER GmbH** Von-Siemens-Str. 20, D-48691 Vreden

The following designated standards and technical specifications have been applied:

BS EN ISO 12100:2010 Safety of machinery - General principles for design
BS EN 60204-1:2018 Safety of machinery - Electrical equipment of machines
BS EN ISO 13849-1:2023 Safety of machinery - Safety-related parts of control systems
BS EN IEC 61000-6-1:2019 Electromagnetic compatibility (EMC)
BS EN IEC 61000-6-4:2019 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
BS EN 60598-1+A:2021 Luminaires - General requirements and tests

A complete list of standards, directives and specifications applied is available from the manufacturer. The operating manual belonging to the product is available.
Additional information:

UK Authorised Representative:
United Kingdom KEMPER (U.K.) Ltd.
Venture Court, 2 Debdale Road, Wellingborough, Northamptonshire NN8 5AA
The above-mentioned person is authorized to compile the technical documentation in Schedule 2 of the Supply of Machinery (Safety) Regulations 2008.

Vreden, 10.04.2026		CEO
Place, date	B. Kemper	Identification of the signatory

9.3 Technical data

Designation	With lighting	Without lighting
Type	**79105**	**79106**
Extraction field compliant with standard	DIN EN ISO 21904-1	
Extraction capacity Q (minimum volume flow in accordance with DIN EN 21904) m^3/h [CFM]	640 [377]	
Permissible ambient temperature (operation) °C [°F]	+5 to +40 [+41 to +104]	
Dimensions of the basic product W x H x D	See Dimensions sheet	
Rotation angle °	360	
Basic product weight kg [lbs]	2.14 [4.72]	2.07 [4.56]
Housing material	Polypropylene	
Supply voltage V AC	24V AC	--
Light colour K	5000	--
Luminous flux lm	500	--
Illumination width (at height 400 mm [15.7 in] and 100-25% light intensity) mm [in]	510 x 445 [20.1 x 17.5]	--

Table 16: Technical data

9.4 Spare parts

Consec. No.	Description	Part no.
1	Cable set 5.0 m	3605552
2	Cable set 10.0 m	3605553
3	Cable set 15.0 m	3605554
4	Clevis	1350352
5	Slewing ring including clevis and screws	7960419
6	Rubber ring set to protect the hose clamp (10 pieces)	1060290
7	Edge protection set	1400072
8	Plastic lens holder set (5 pieces)	1990035
9	Hose clamp	1990036

Tab. 17: Spare parts

9.5 Accessories

Consec. No.	Description	Part no.
1	Butterfly valve set	791030002
2	Protective mesh set (black)	1272520
3	LED lighting unit - retrofit kit	1990056

Tab. 18: Accessories

9.6 Dimensions sheet

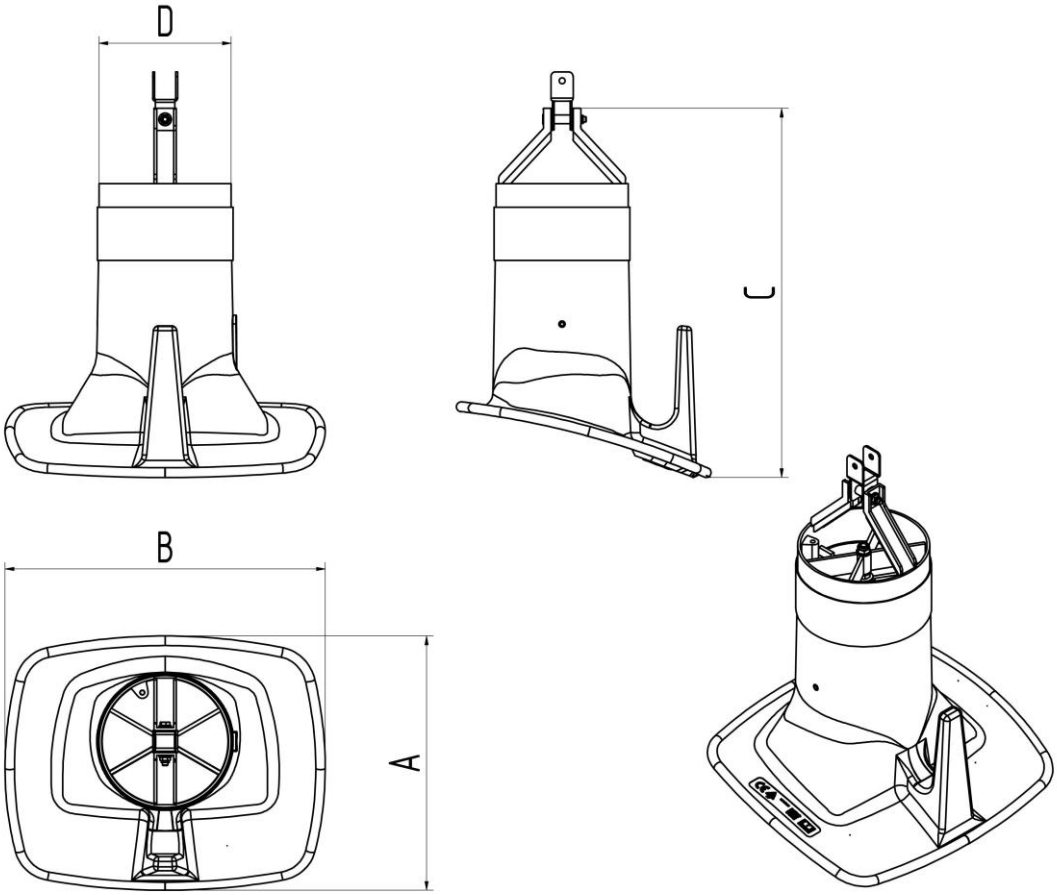


Fig. 16: Dimensions sheet

Symbol	Dimensions mm [in]	Symbol	Dimensions mm [in]
A	287 [11.3]	C	417 [16.4]
B	316 [14.2]	D	150 [5.9]

Tab. 19: Dimensions sheet

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