



aspoeck.com

ASS JUNCTION BOX

OPERATING MANUAL



OPERATING MANUAL





SERVICE NOTES

- Please read these assembly instructions completely before starting assembly.
- These installation instructions are intended for workshops and attachment manufacturers. Appropriate background knowledge is therefore assumed in these assembly instructions. It should be noted that some work may only be carried out by appropriately qualified personnel in order to avoid the risk of injury and to achieve the quality required for construction work.
- When making product improvements, we reserve the right to make technical and optical changes.
- If you have any questions or installation problems, call Aspöck customer service, the dealer or contact your authorized workshop.

LIABILITY PROVISIONS



General information:

- National mounting, installation and operating regulations must be observed.
- The product may only be used in accordance with the enclosed instructions and safety notes. Instructions can be found online at **www.aspoeck.com**.
- No modifications may be made to the product unless only the original spare parts intended for this purpose or spare parts approved by Aspöck are used and installed by professionally qualified personnel.

Exclusion of warranty:

- Warranty for any product damage is excluded in the event of non-compliance with the instructions, with the product data sheet or in the event of use outside of the intended purpose or operating conditions.
- The warranty also does not cover products that have been damaged or are in poor operating condition due to hazards (including environmental hazards, road traffic hazards, hazards caused by third parties or circumstances beyond the control of Aspöck).
- Repair or replacement of a defective product does not result in the start of a new warranty period.
- Other warranty provisions can be found in item 10 of the Terms of Sales and Delivery (TSD) **www.aspoeck.com**.

Exclusion of liability:

- Aspöck Systems accepts no liability for indirect damage, consequential damage and financial losses.
- Other (limiting) liability provisions can be found in item 11 of the Terms of Sales and Delivery (TSD) **www.aspoeck.com**.
- Limiting product liability provisions are laid down in item 12 of the Terms of Sales and Delivery (TSD) **www.aspoeck.com**.



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1. LIST OF SHORTCUTS

| SHORTCUT | EXPLANATION |
|----------|---------------------------------|
| EMC | Electro-magnetic compatibility |
| ESD | Electrostatic discharge |
| OEM | Original equipment manufacturer |
| LCG | Light Control Gear |
| SMCG | Side Marker Control Gear |

2. GENERAL INFORMATION

2.1 TARGET GROUP

This document is intended for qualified specialists from vehicle manufacturers or workshops. Unauthorised opening or modifications to the distributor box exclude the manufacturer's liability.

2.2 SAFETY

2.2.1 INTENDED USE

The ASS junction box may only be used for wiring electrical components on towed vehicles. Any other use is considered improper. The manufacturer is not liable for any resulting damage. Proper use also includes compliance with the operating, maintenance and servicing instructions prescribed by the manufacturer. Use is subject without exception to the country-specific traffic regulations in which the vehicle is operated. Unauthorised modifications to the system exclude the manufacturer's liability for any resulting damage.



2.2.2 USED PICTOGRAM

These instructions contain information that must be observed for personal safety and to prevent personal injury and damage to property. These are highlighted by warning triangles and shown below depending on the degree of danger.

DANGER

The signal word indicates a hazard with a **high** level of risk which, if not avoided, could result in death or serious injury.

WARNING

The signal word indicates a hazard with a **medium** level of risk which, if not avoided, could result in death or serious injury.

CAUTION

The signal word indicates a hazard with a **low** level of risk which, if not avoided, could result in a minor or moderate injury.

NOTE

A note in the context of these instructions is important information, a technical note, about the product or the relevant part of the instructions to which particular attention is to be paid.

The ASS junction box fulfils the following requirements:

- ECE R10 - Electromagnetic compatibility (valid for LCG distributors)



3. VERSIONS

The ASS junction box is available in different versions.

ASS junction box
with low lid



ASS junction box
with high lid



ASS Junction box LCG



ASS Junction box
Double floor



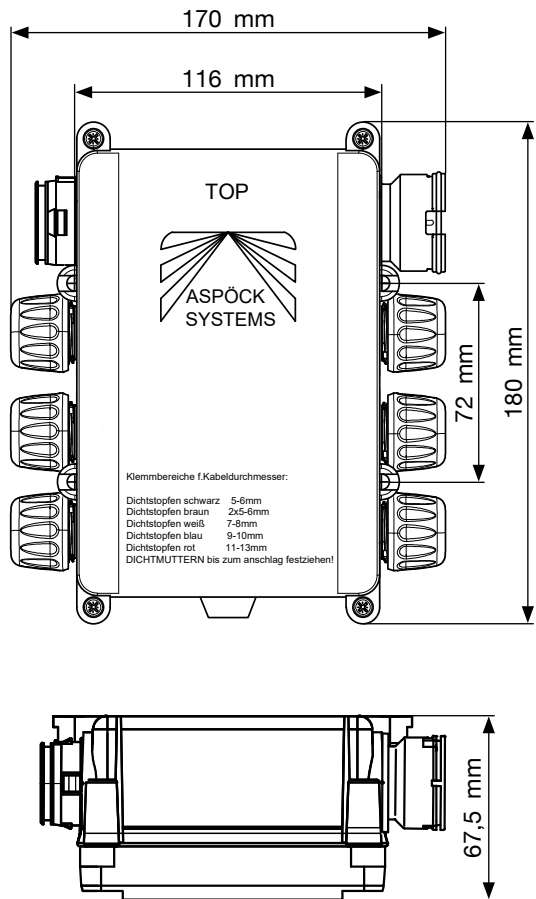


3.1 TECHNICAL DATA

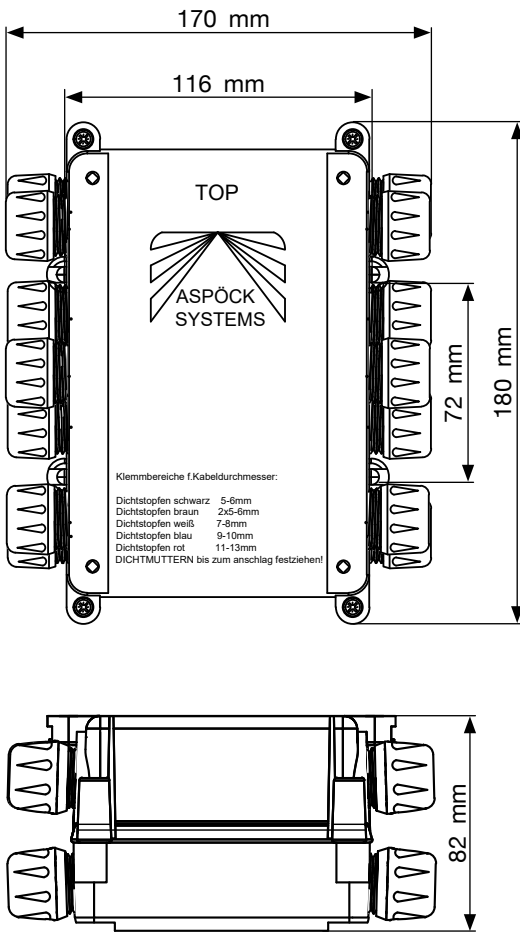
| TECHNICAL DATA | |
|---------------------------|--|
| HOUSING MATERIAL | ABS |
| COLOR | Black |
| WORKING TEMPERATURE RANGE | -40°C — +50°C |
| STORAGE TEMPERATURE RANGE | -40°C — +90°C |
| CORROSION RESISTANCE | 480 hours |
| VIBRATION RESISTANCE | Aspöck Standard Vibrationtest (PAW 80.04) |
| CHEMICAL RESISTANCE | Diesel, unleaded petrol, car wash chemicals, isopropyl alcohol cleaner, engine oil |
| PROTECTION CLASS | IP54 |
| ADR-TEST | ADR Zone 2 |

3.2 DIMENSIONS

ASS junction box
with low lid

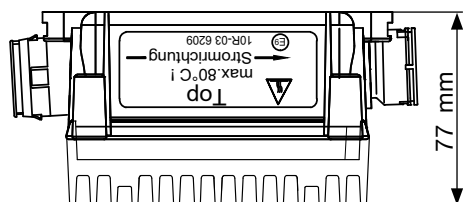
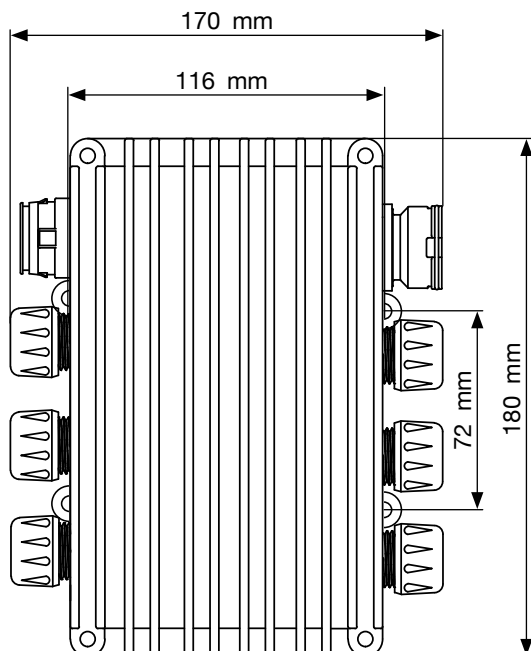


ASS junction box
with high lid

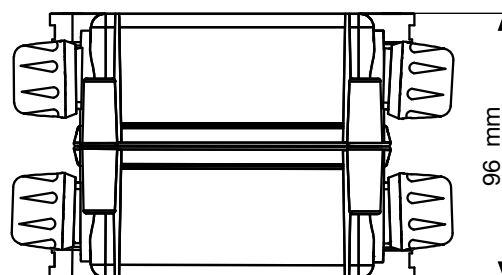
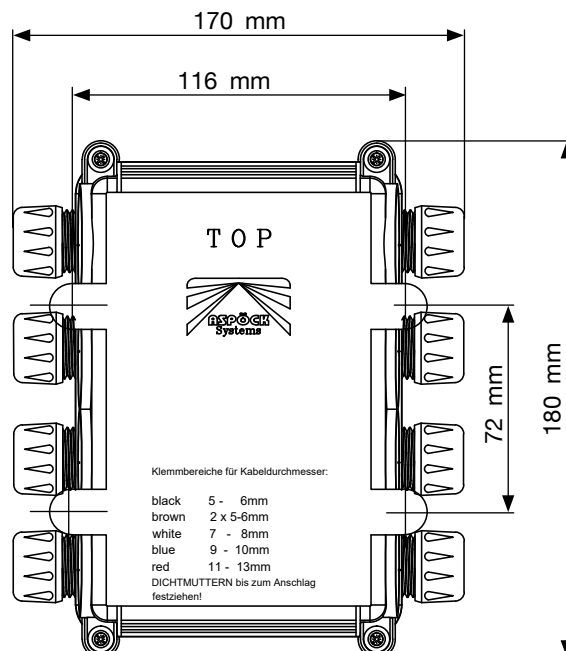




ASS Junction box LCG



ASS Junction box
Double floor



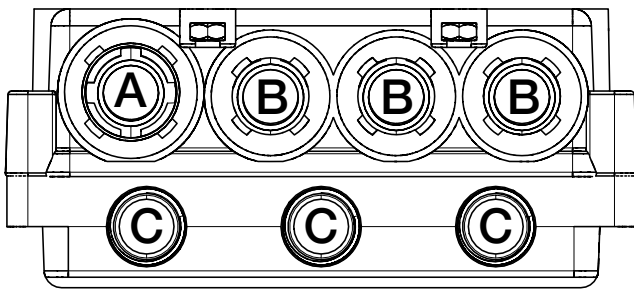


3.3 SLOTS

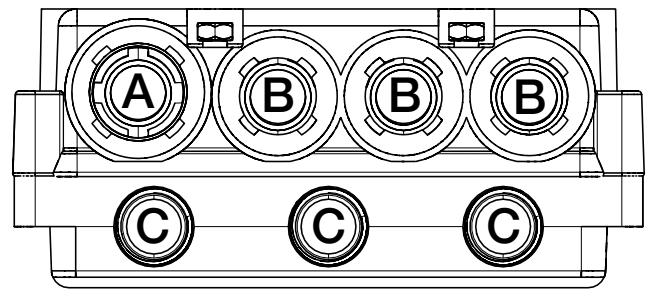
Depending on the version, the ASS junction box offers different slots on both sides. Existing inserts can be exchanged.

The slots can be equipped with the following connections: ASS1, ASS2, ASS3 with bayonet catch. Superseal 2-pin, Superseal 3-pin and AMP 7-pin.

Example: ASS distributor with high lid



1x large insert (A)
3x small inserts (B)
3x fixed screw connection (C)



1x large insert (A)
3x small inserts (B)
3x fixed screw connection (C)



4. MOUNTING JUNCTION BOX ASS

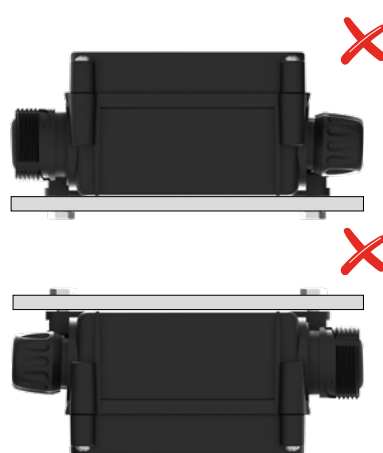
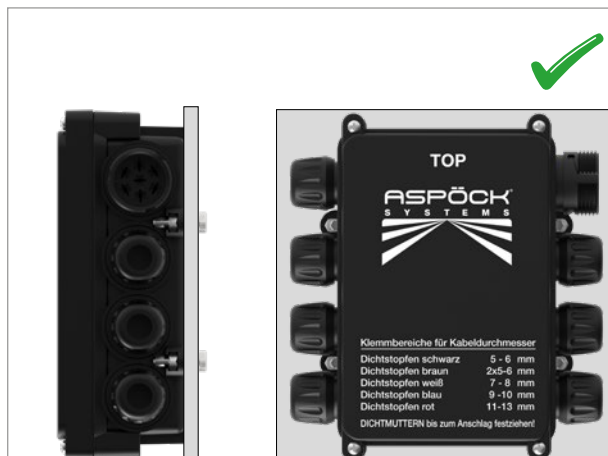
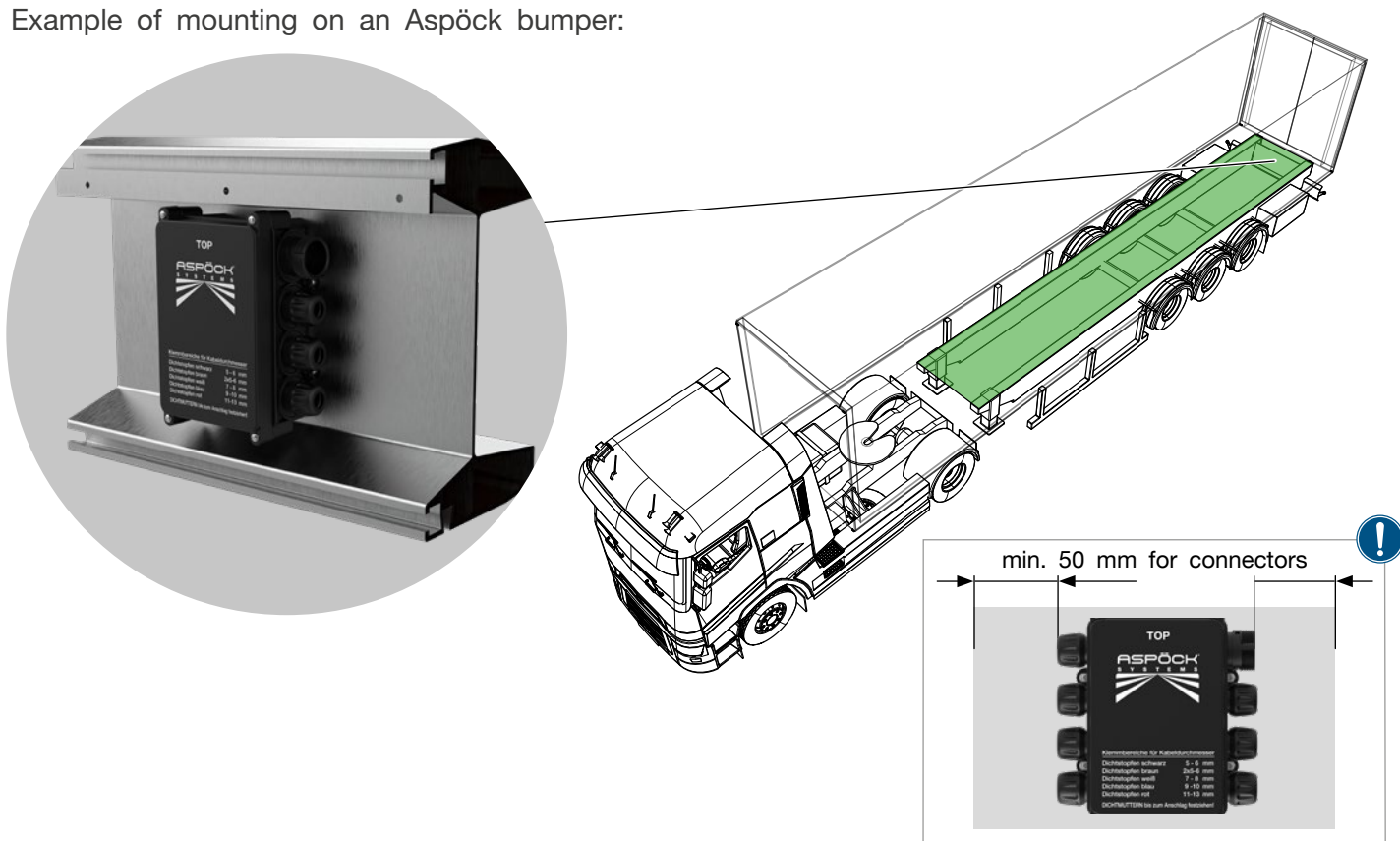
Mounting position

The ASS junction box is permanently installed on the trailer in a protected area. Cable lengths and sufficient space for the plugs/inserts must be observed.

NOTE

Protected attachment required: Distribution boxes must not limit or protrude beyond the vehicle outline or protrude beyond it. Installation in a protected area in the underride guard or in frame parts is necessary. Installation in the spray area of the wheels is prohibited. (Risk of stone chipping)

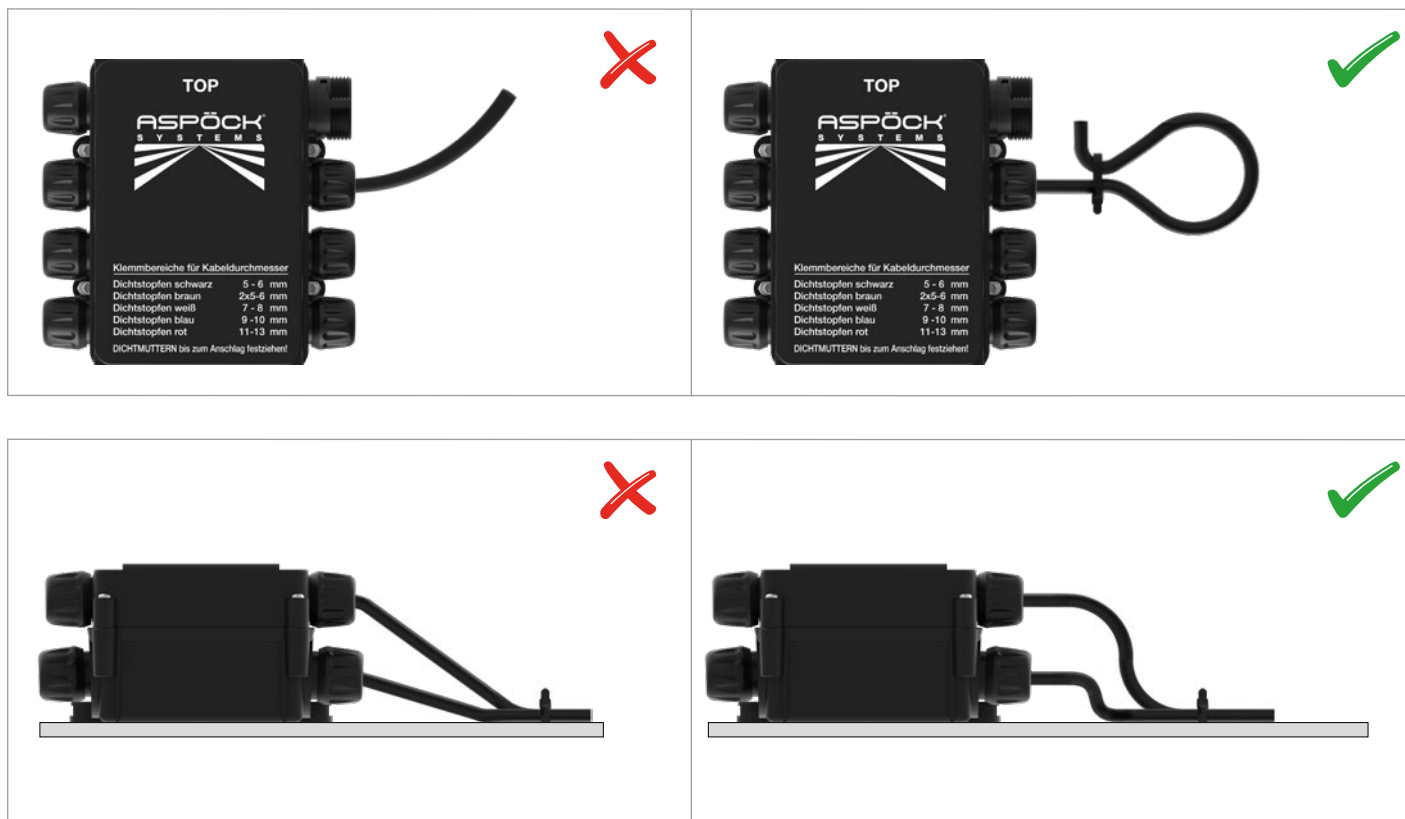
Example of mounting on an Aspöck bumper:





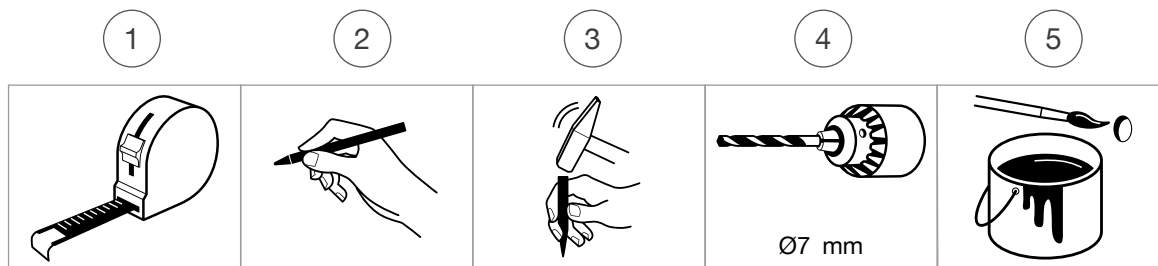
Wiring

It is assumed that general rules for wiring on vehicles are known and understood. The cables must be fastened and positioned in such a way that they are protected against mechanical and thermal stress.

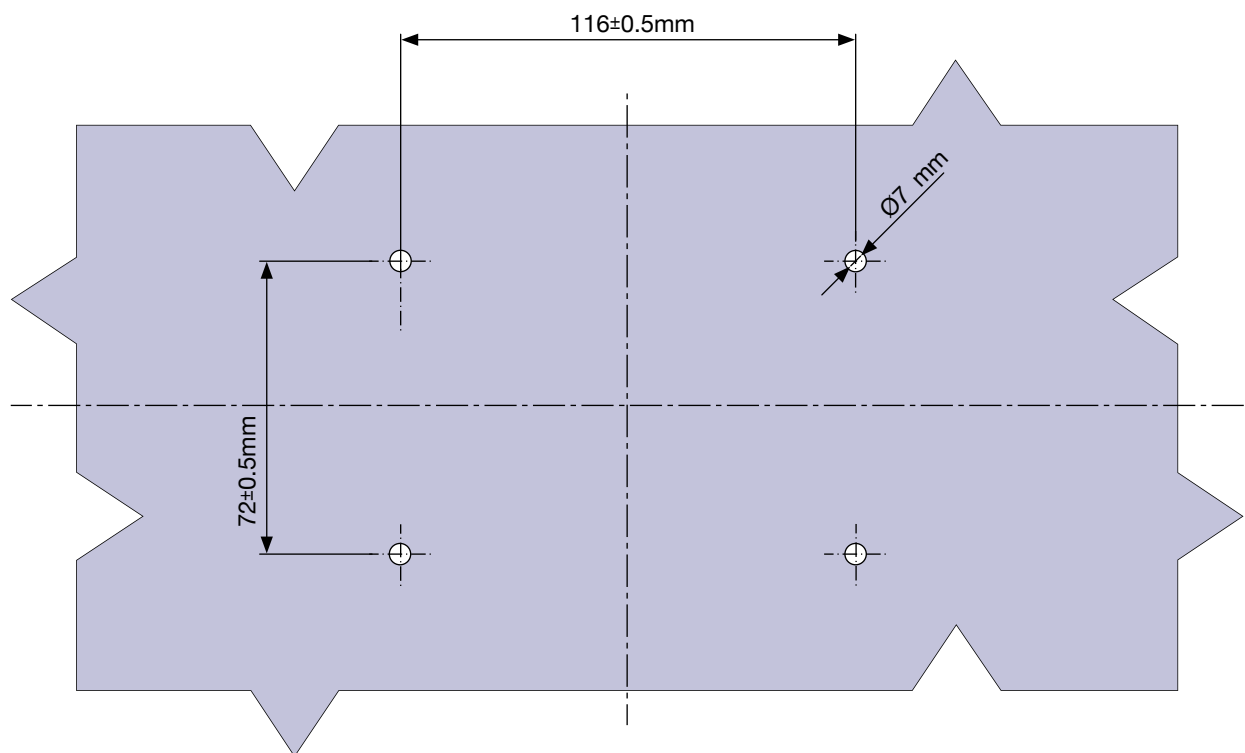




Preparation for assembly

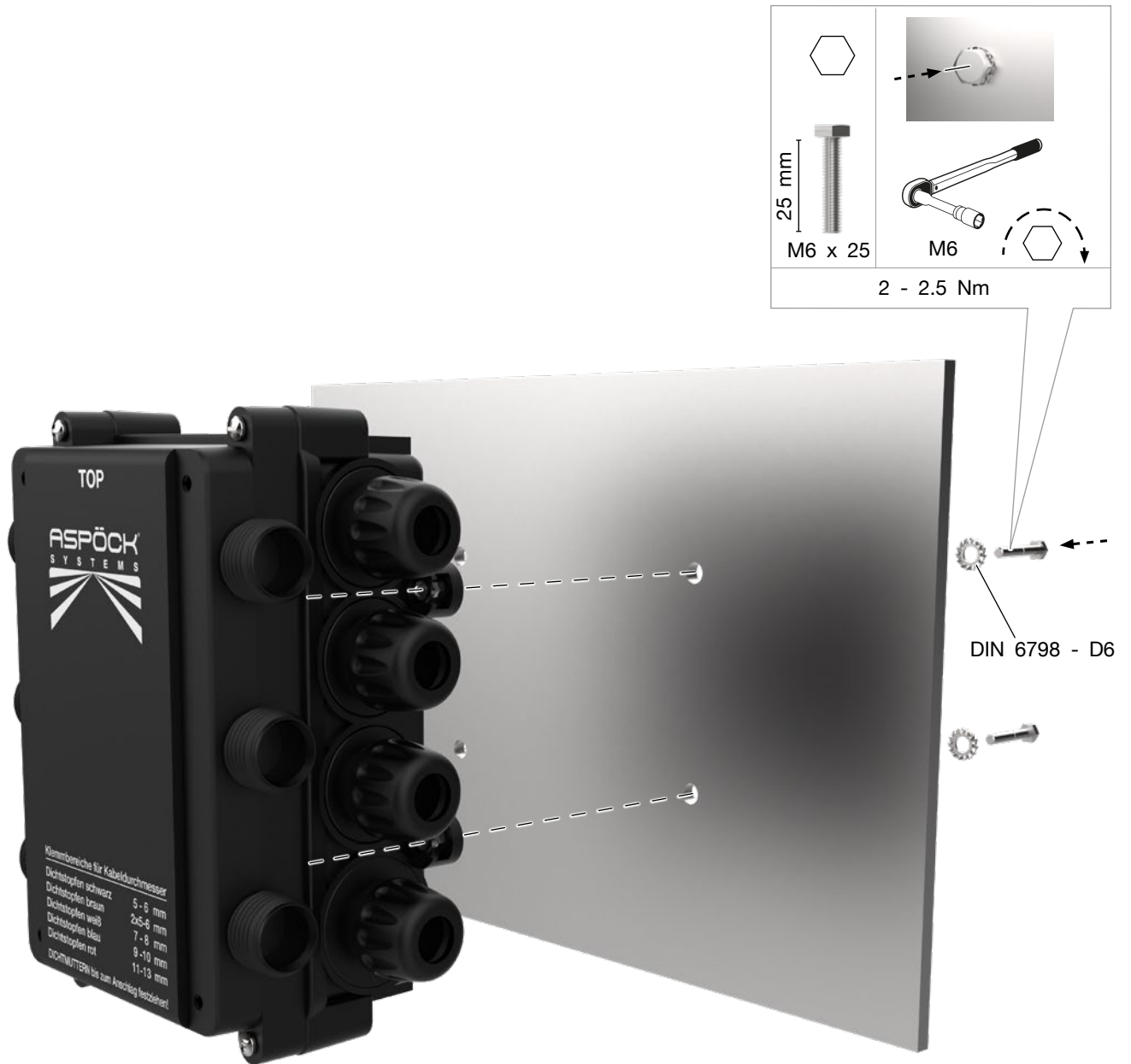


Drilling pattern ASS junction box





Mounting



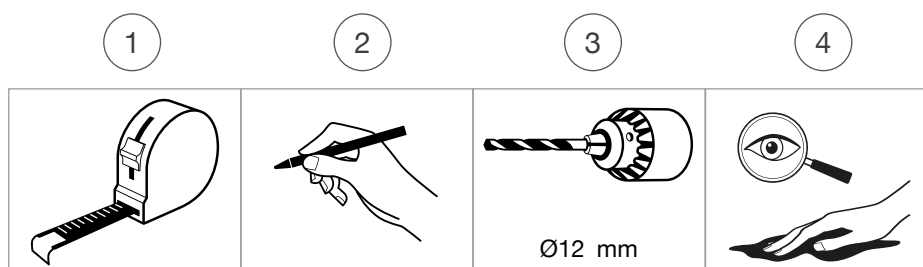


4.1 RETROFIT DRAIN VALVE*

* for closed ASS junction boxes

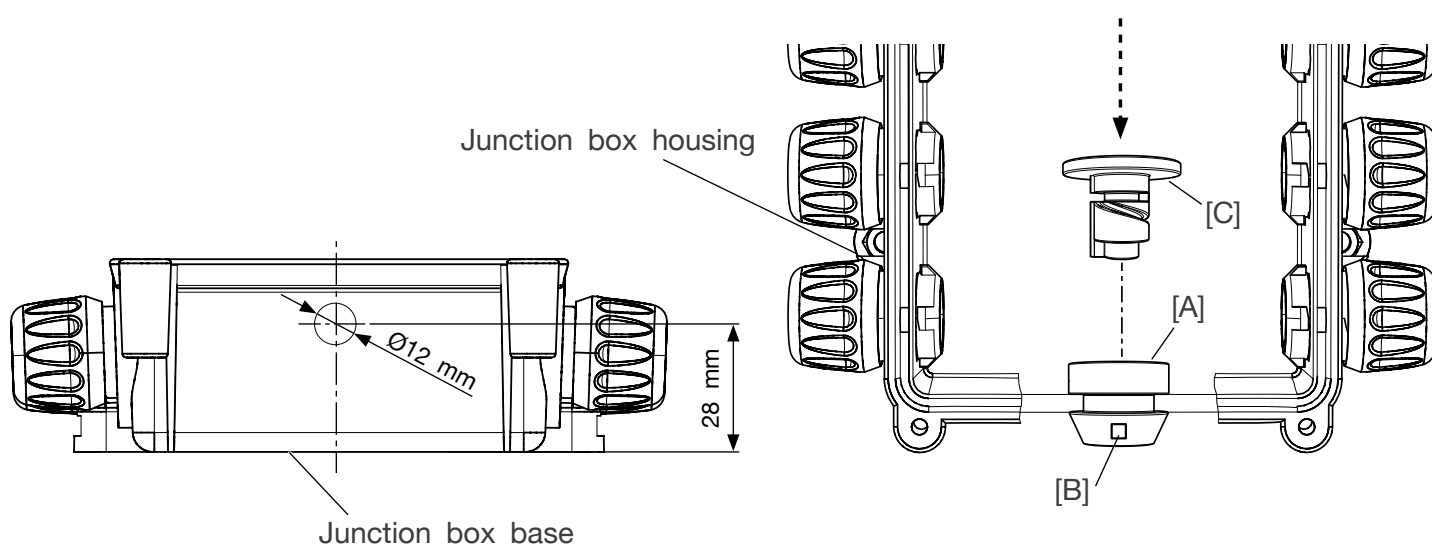


Preparation for assembly



Mounting

Open the junction box and then mark the position where the hole must be drilled. After drilling, cleanly remove the drill burr on the inside and outside.

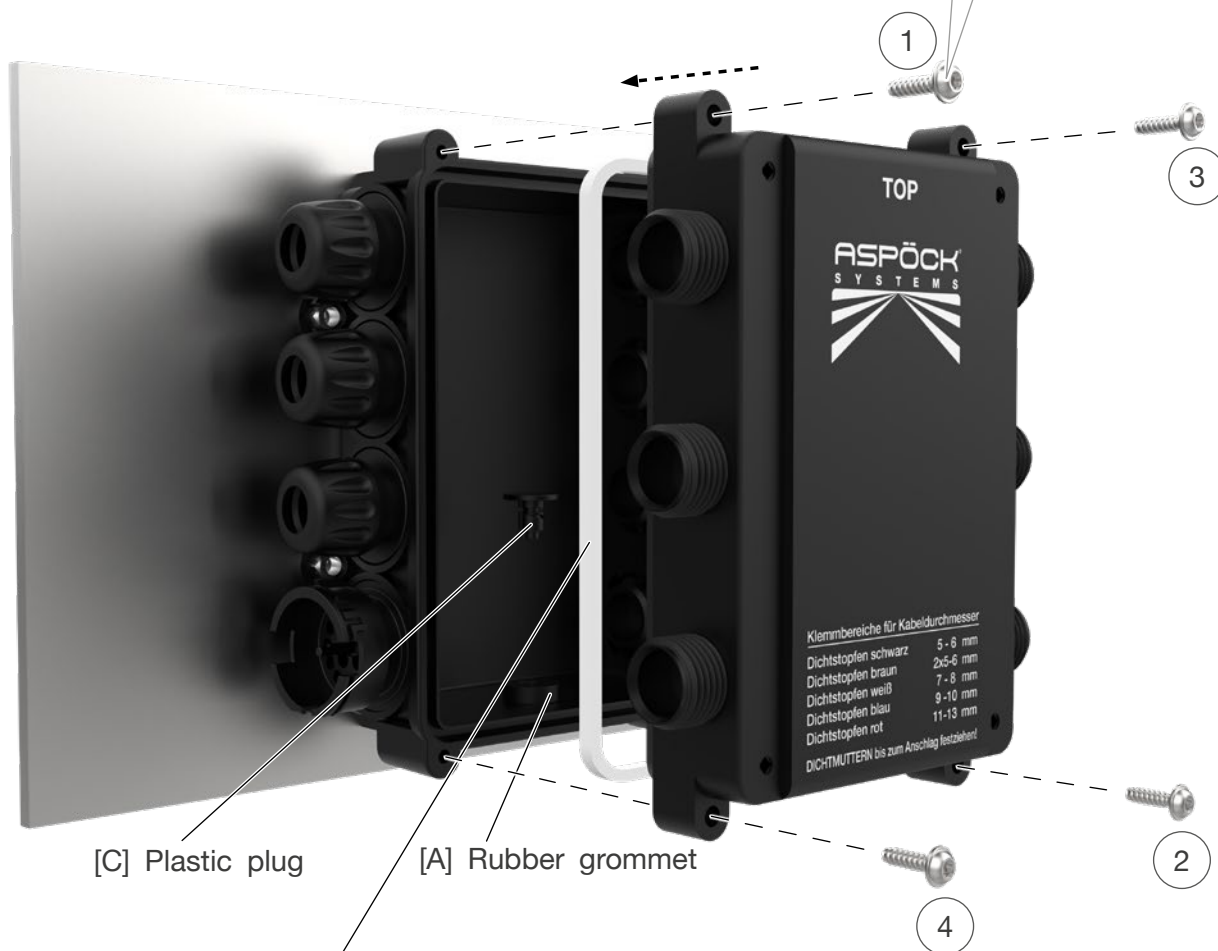
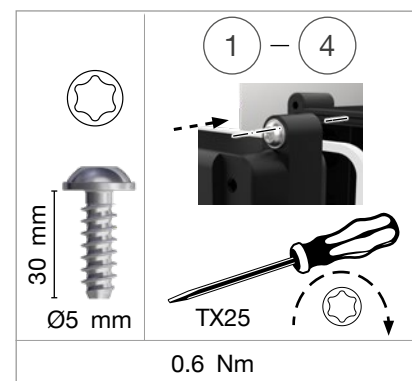
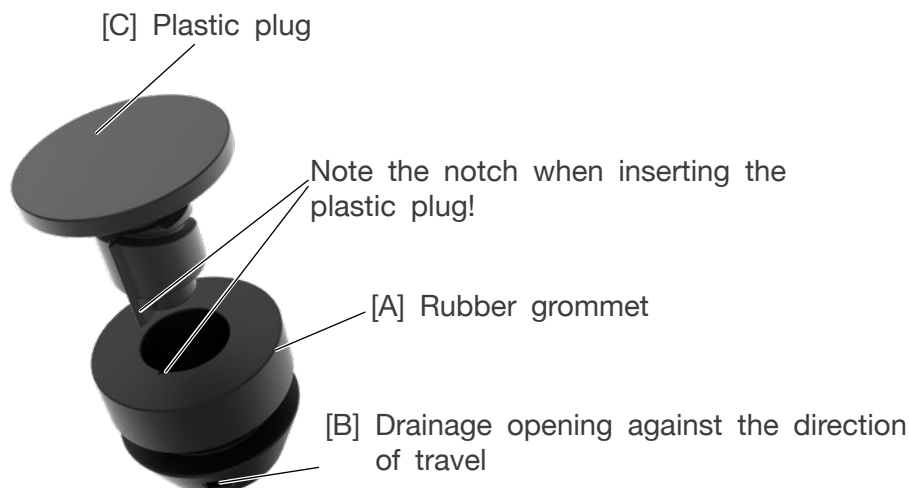


⚠ CAUTION

CAUTION: Make sure that the existing cables and contacts are not damaged when drilling.



Insert the rubber grommet [A] into the hole from the inside so that the drainage opening [B] is positioned AGAINST THE DIRECTION OF TRAVEL. Push the plastic plug [C] into the rubber grommet until it reaches the end position. Then screw the housing cover and the housing base together using the specified tightening torque.



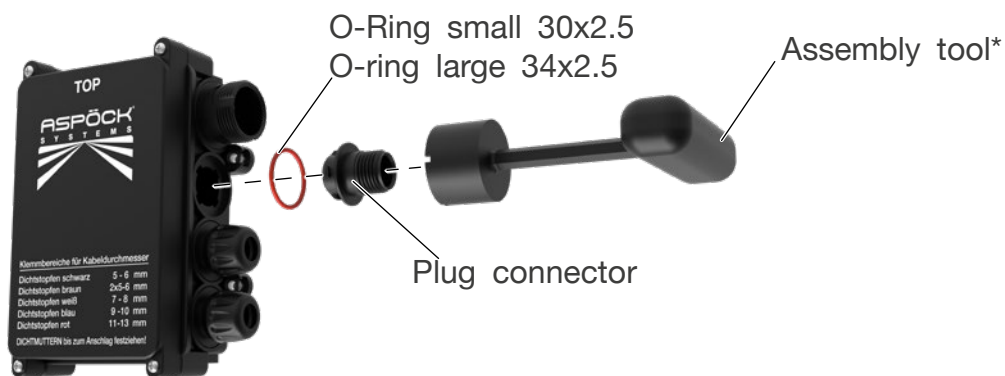
⚠ CAUTION

The gasket must be replaced after opening the junction box! OEM 15-5140-507



4.2 MOUNTING BAYONET INSERTS

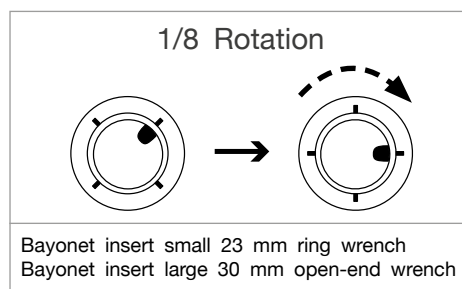
1



2



3



4



* special assembly tool can be ordered from the Aspöck company

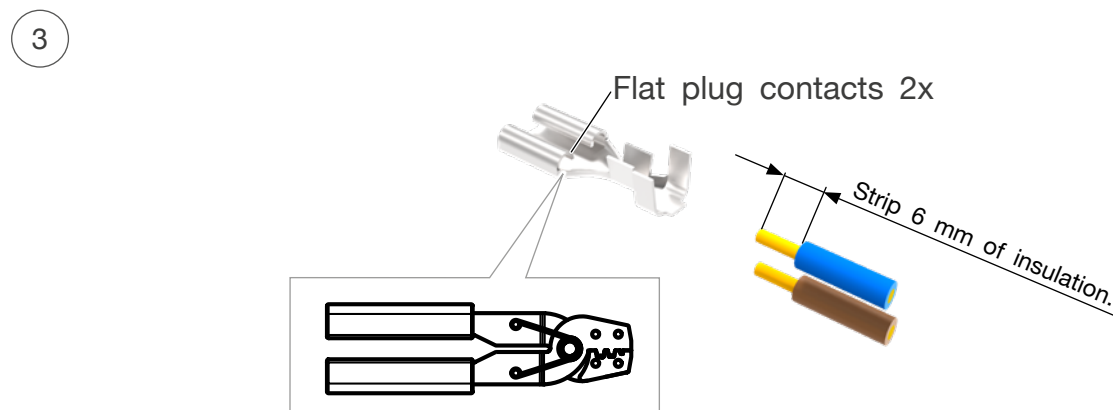
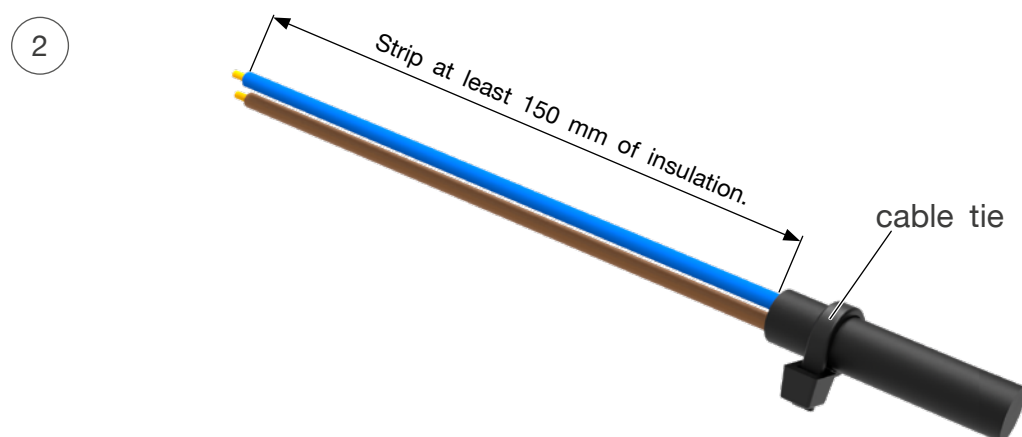
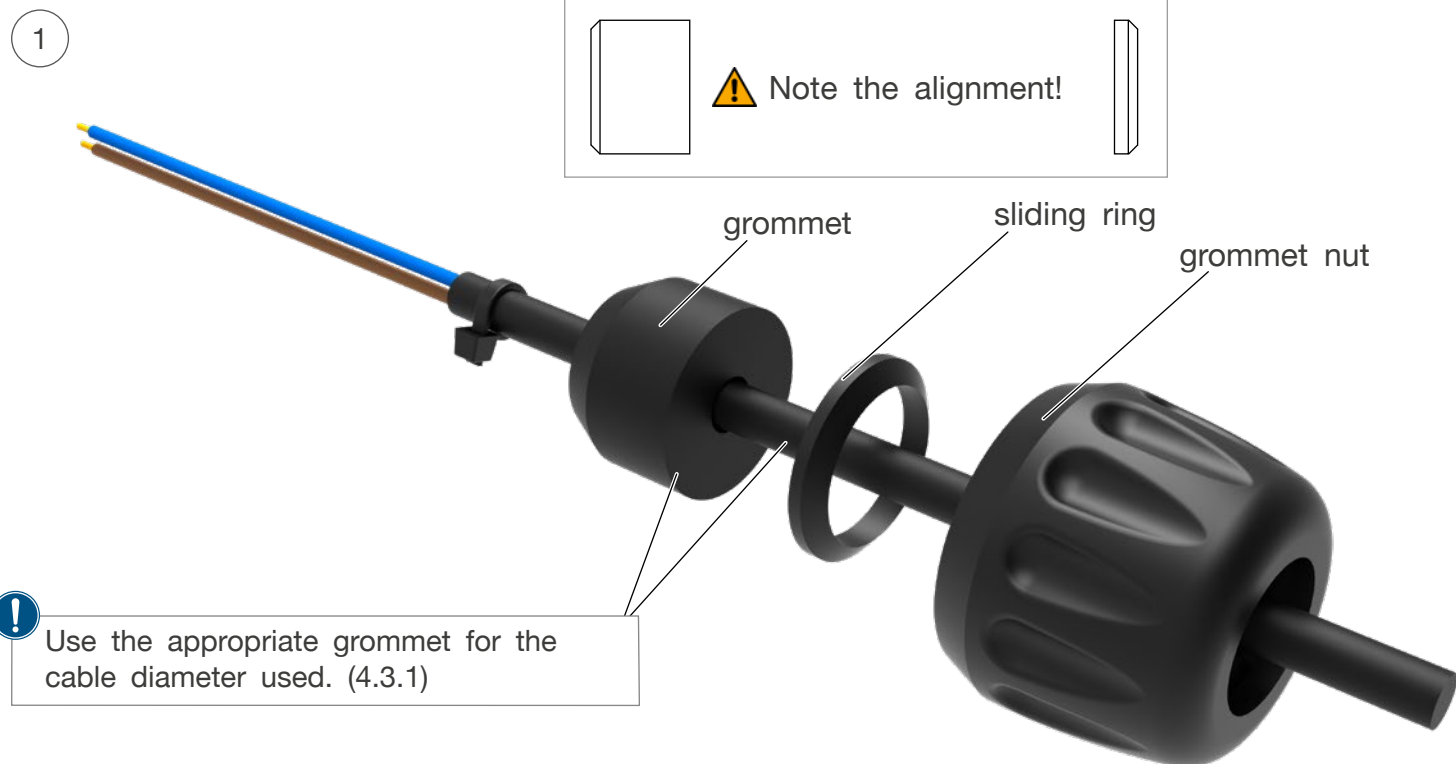


4.2.1 SPARE PARTS

| | PART NO | ADDITION |
|-------------|-------------|---|
| SPARE PARTS | 76-5100-007 | junction box ASS1 |
| | 13-5621-004 | bayonet housing black „open“ and O-ring |
| | 13-5621-014 | bayonet housing black „closed“ and O-ring |
| | 13-5627-204 | bayonet housing yellow for 2 pin outside connector with O-ring and flat plug contacts 6,3 |
| | 13-5627-224 | bayonet housing green for 2 pin outside connector with O-ring and flat plug contacts 6,3 |
| | 13-5627-284 | bayonet housing black for 2 pin outside connector with O-ring and flat plug contacts 6,3 |
| | 13-5627-704 | bayonet housing yellow for 7 pin outside connector with O-ring and flat plug contacts 6,3 |
| | 13-5627-724 | bayonet housing green for 7 pin outside connector with O-ring and flat plug contacts 6,3 |
| | 13-5627-784 | bayonet housing black for 7 pin outside connector with O-ring and flat plug contacts 6,3 |
| | 13-1750-004 | Bayonet housing 17 pin ASS3 pin, O-ring with spring and contacts |
| | 13-1740-004 | Bayonet housing, 17 pin ASS3 socket, with 2x O-ring and contacts |

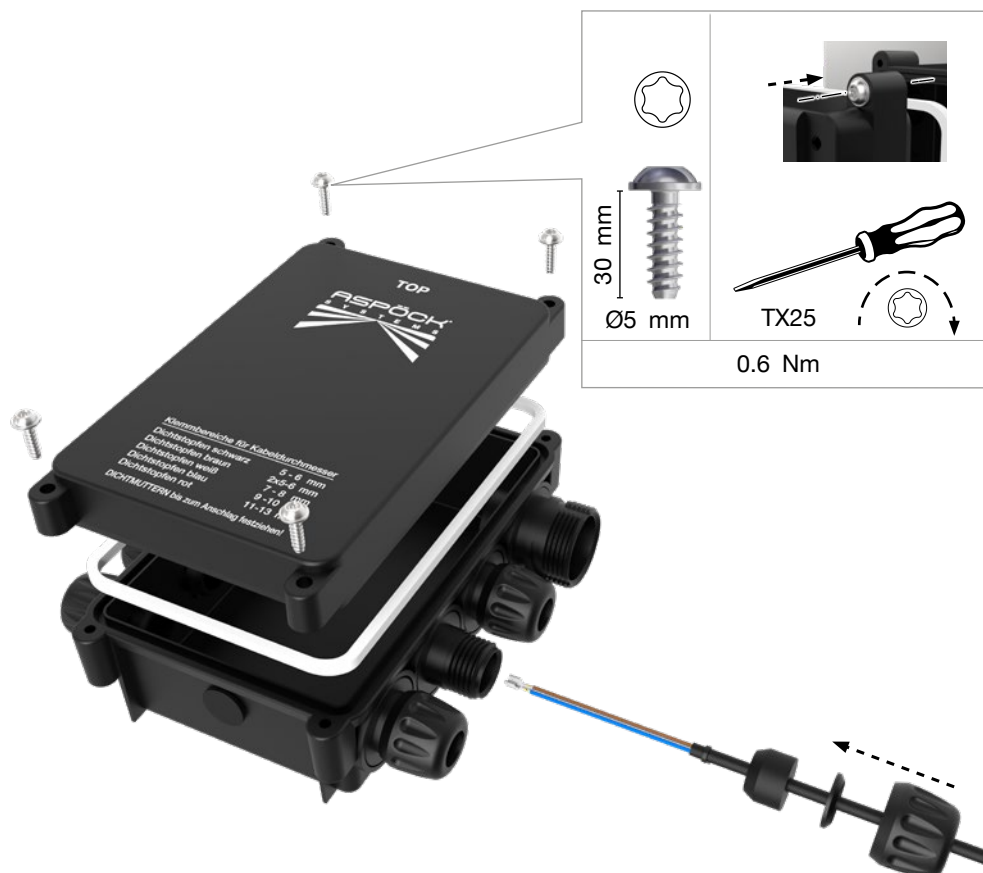


4.3 RETROSPECTIVE WIRING

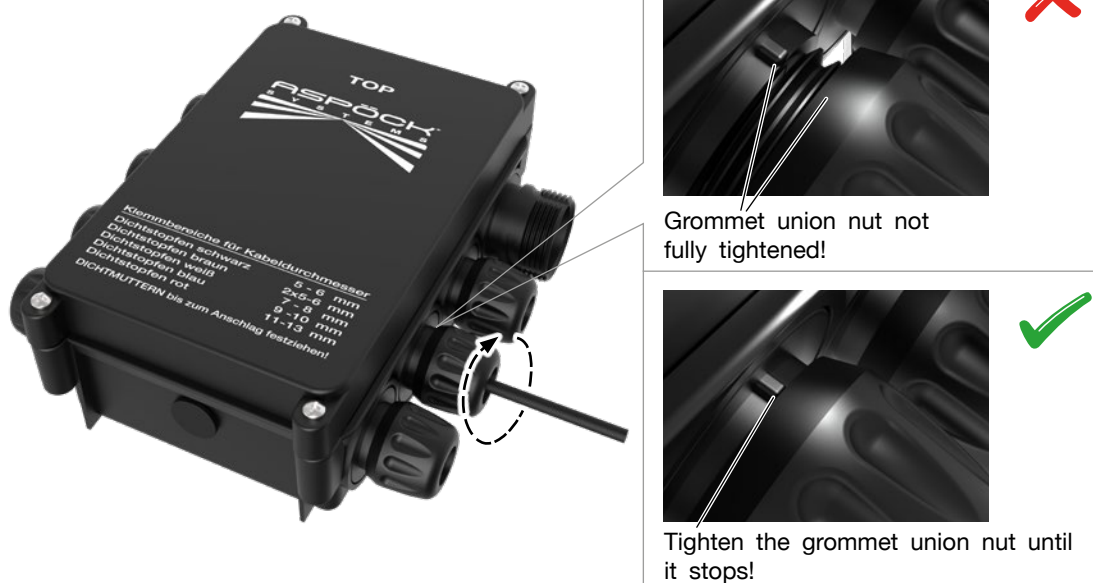




4



5



⚠ CAUTION








The gasket must be replaced after opening the junction box! OEM 15-5140-507

NOTE

Unused outlets must be closed with the green grommet and screw fitting.



4.3.1 ASS JUNCTION BOX - GROMMETS

| | PART NO | VERSION CABLE DIAMETER | ADDITION | COLOR | QUANTITY |
|-------------|-------------|---------------------------|----------|---|----------|
| SPARE PARTS | 15-5623-306 | 0 mm | closed |  | 5 pcs. |
| | 15-5623-006 | 5 - 6 mm | open |  | 5 pcs. |
| | 15-5623-106 | | closed | | |
| | 15-5623-016 | 2 x 5 - 6 mm | open |  | 5 pcs. |
| | 15-5623-116 | | closed | | |
| | 15-5623-026 | 7 - 8 mm | open |  | 5 pcs. |
| | 15-5623-126 | | closed | | |
| | 15-5623-036 | 9 - 10 mm | open |  | 5 pcs. |
| | 15-5623-136 | | closed | | |
| | 15-5623-046 | 11 - 13 mm | open |  | 5 pcs. |
| | 15-5623-146 | | closed | | |
| | 15-5623-186 | flat cable (P&R) | closed |  | 5 pcs. |



5. WORKSHOP INSTRUCTIONS

5.1 MAINTENANCE

The ASS junction box is basically maintenance-free. However, it is important to regularly check that all plug connections of the connectors and the cabling are in good order.

5.2 REPAIR

If a malfunction is detected, the junction box must be checked. If a fault continues to occur after the junction box, all connected plug connections and cables have been checked, a specialist workshop must be consulted immediately to repair the fault.

6. RECYCLING

- **Decommissioning and disposal:**
Please observe the applicable legal regulations for the decommissioning and disposal of this product. In particular, observe the regulations on the disposal of batteries, equipment and electrical systems.
- **Electrical appliances:**
Collect electrical appliances separately from household or commercial waste. These can be recycled or disposed of properly. If possible, pass on the old appliance for in-house disposal or contact the manufacturer for specific instructions.
- **Environmental protection:**
Electrical and electronic equipment must be collected separately from unsorted municipal waste and disposed of or recycled properly. Improper disposal can damage health and the environment. Contact specialised waste disposal companies or the responsible authorities for detailed information.
- **Packaging:**
Packaging must be disposed of separately. Paper, cardboard and plastics can be recycled.

THE ART OF LIGHTS

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