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XL JUNCTION BOX

OPERATING MANUAL



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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 XL 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.

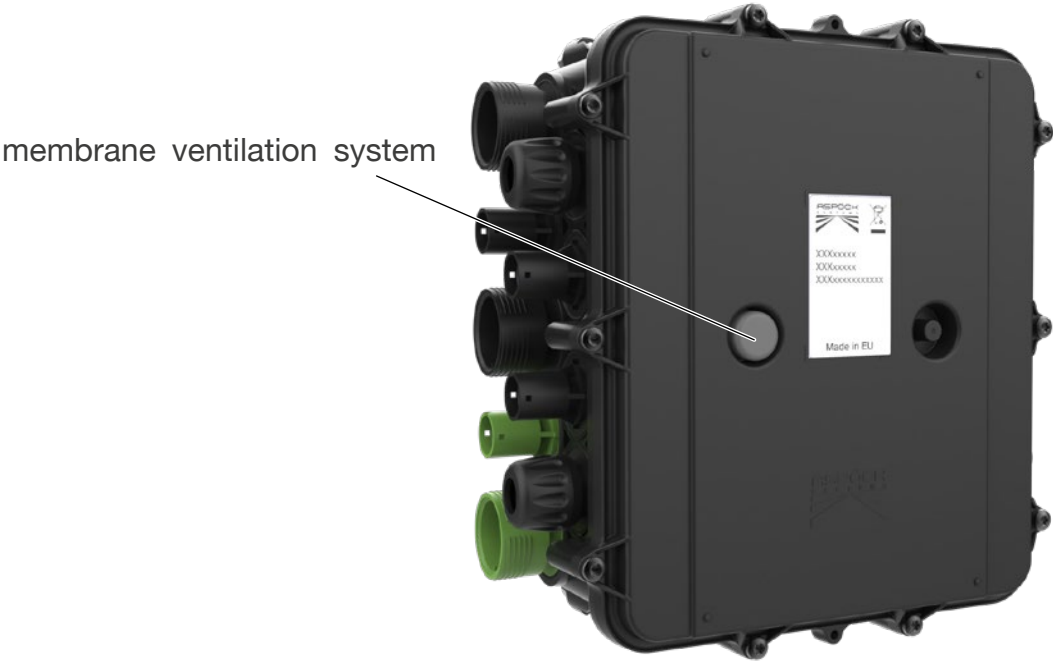
The XL junction box fulfils the following requirements:

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

3. VERSIONS

The XL junction box is available with different slots and exchangeable inserts.

XL Junction box



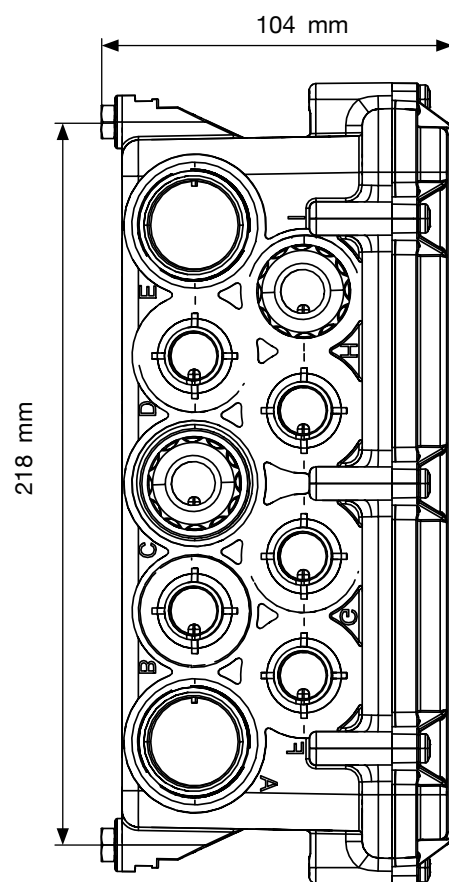
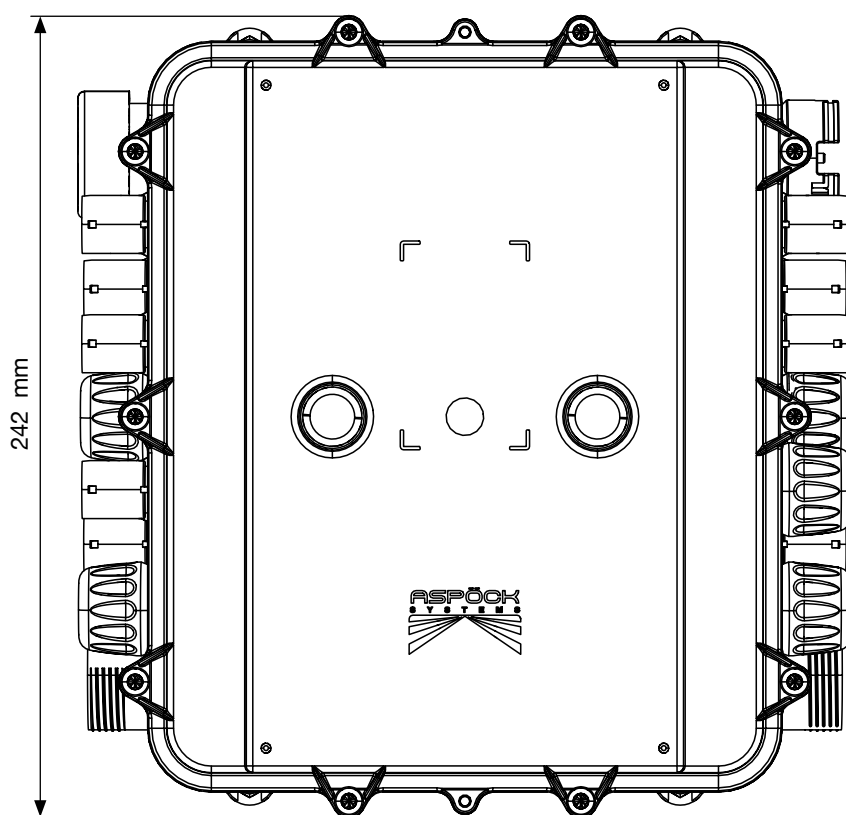
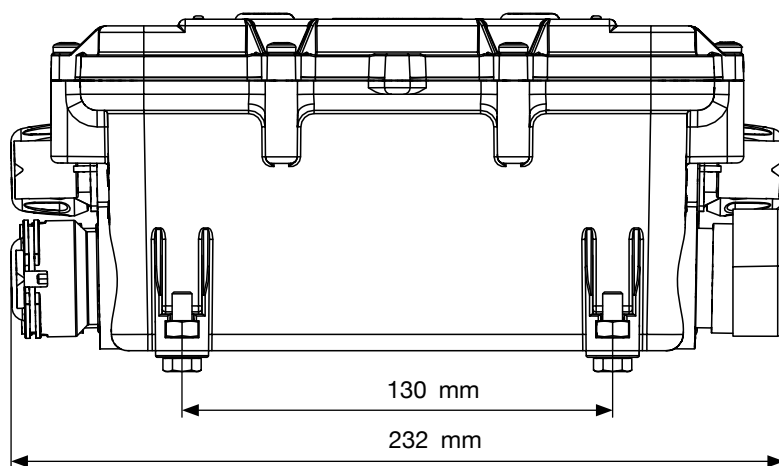
3.1 TECHNICAL DATA

TECHNICAL DATA	
MATERIAL	PA6 GF15
COLOR	Black
DIMENSIONS	242 x 232 x 104 mm
WEIGHT (WITHOUT CABLE AND CONNECTORS)	850g ±5%
WORKING TEMPERATURE RANGE	-40°C — +50°C
STORAGE TEMPERATURE RANGE	-40°C — +90°C
CORROSION RESISTANCE	480 hours
VIBRATION RESISTANCE	Aspöck Standard Vibrationstest (PAW 80.04)
CHEMICAL RESISTANCE	Diesel, unleaded petrol, car wash chemicals, isopropyl alcohol cleaner, engine oil
PROTECTION CLASS	IP6K9K*
ADR-TEST	ADR Zone 2

*Depending on junction box inserts.



3.2 DIMENSIONS



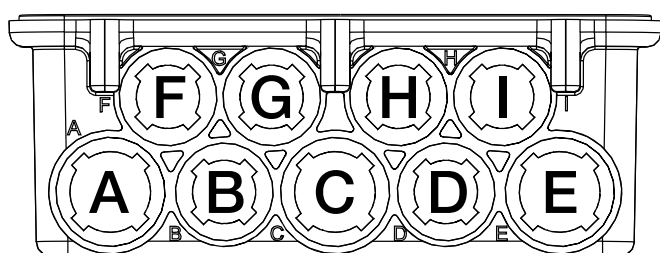


3.3 SLOTS

The XL junction box offers 9 slots on each of two sides. Consisting of inserts can be exchanged.

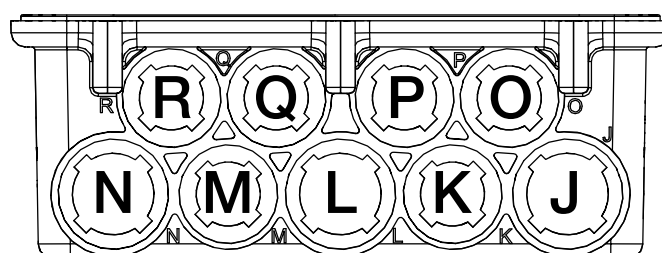
On each side, 9 slots can be equipped with ASS1, ASS2, ASS3, Superseal and AMP connectors with bayonet locking.

Side A to I



3 large inserts (A, C, E)
6 small inserts (B, D, F, G, H, I)

Side J to R



3x large inserts (N, L, J)
6x small inserts (M, K, R, Q, P, O)



4. MOUNTING JUNCTION BOX XL

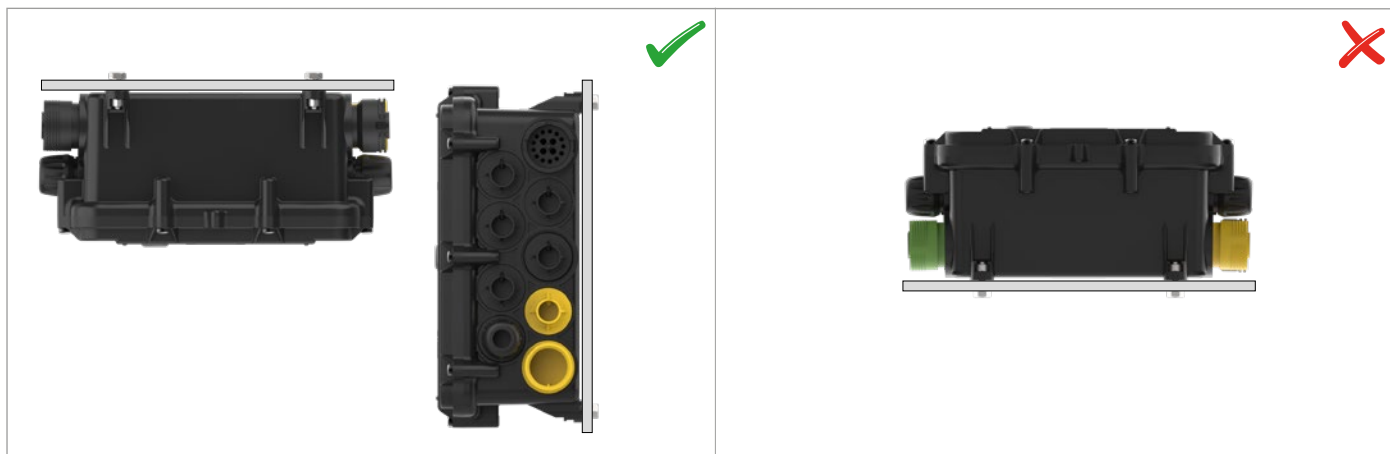
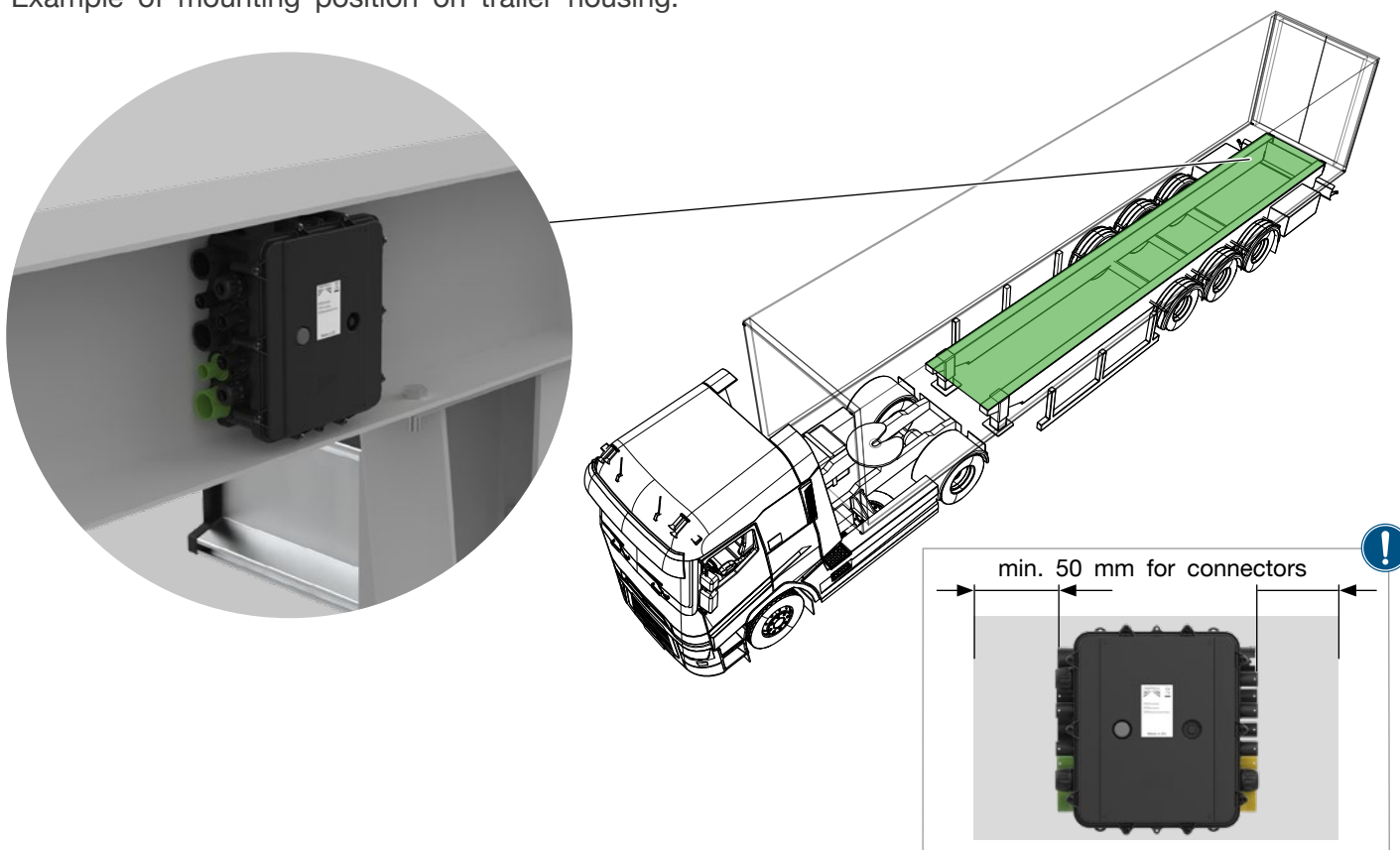
Mounting position

The XL 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)

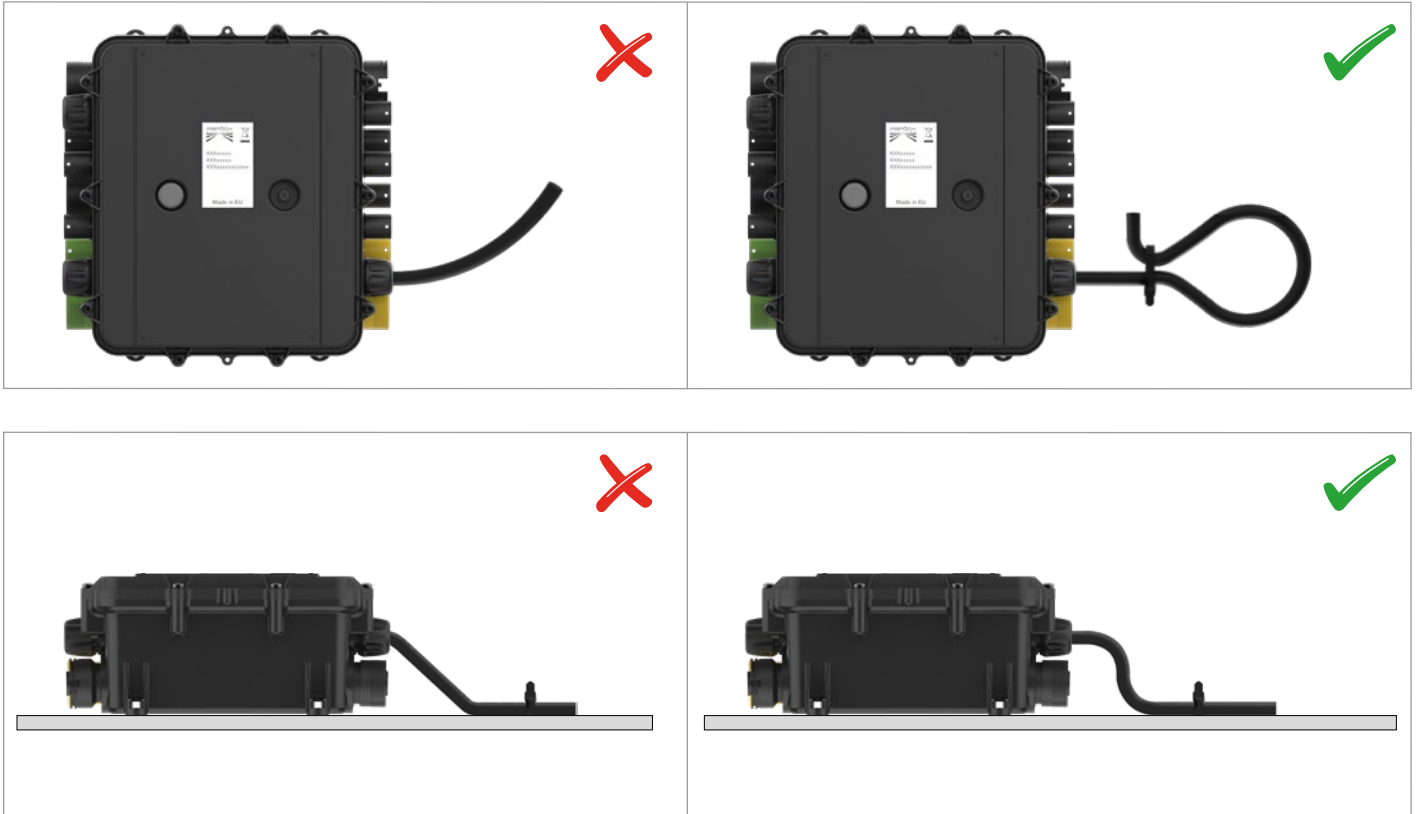
Example of mounting position on trailer housing:





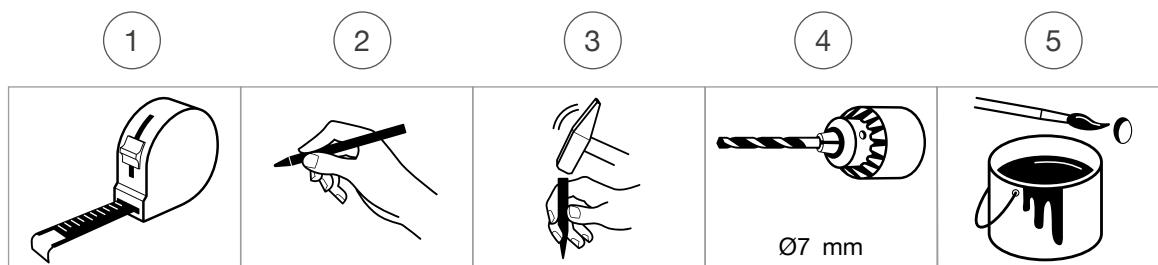
Wiring

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.

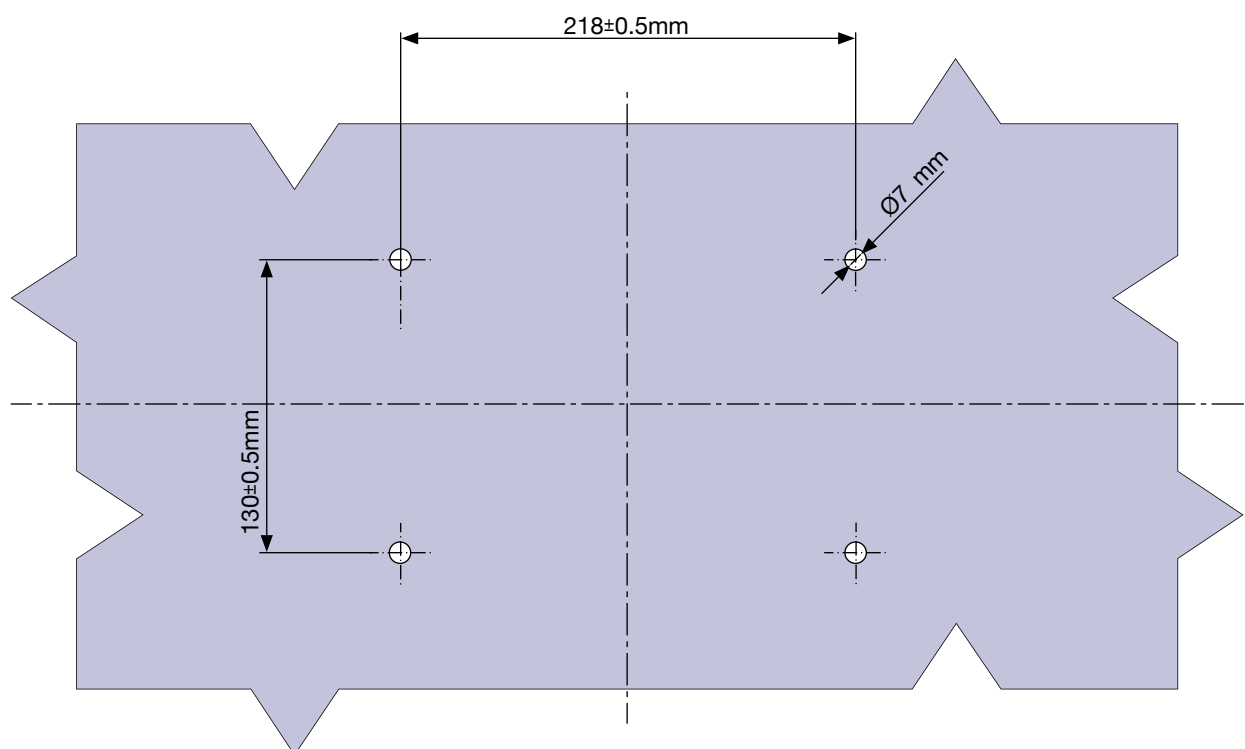




Preparation for assembly

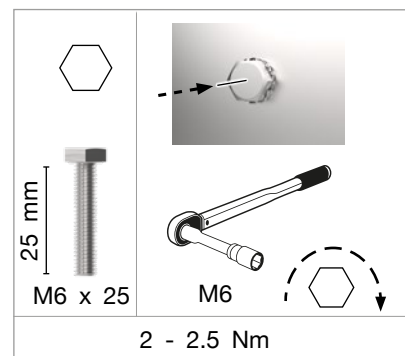


Drilling pattern XL junction box





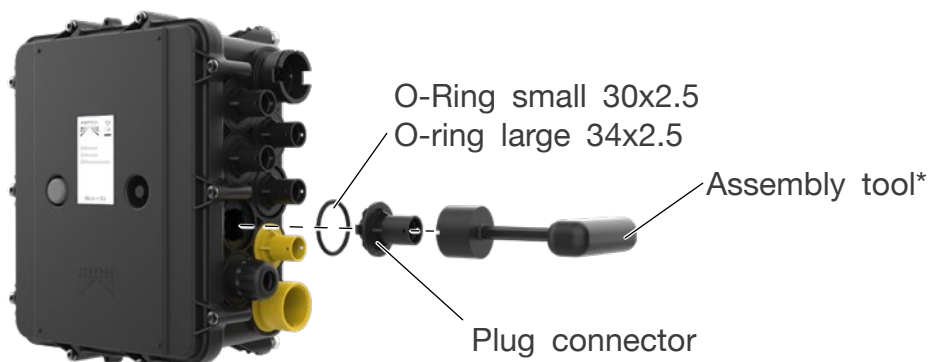
Mounting





4.2 MOUNTING BAYONET INSERTS

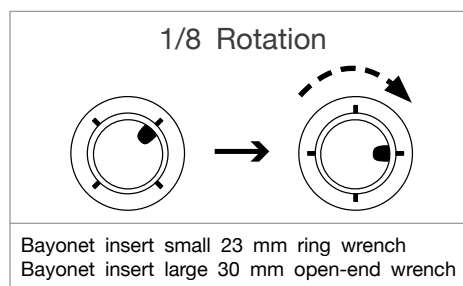
1



2



3



4



* special assembly tool can be ordered from the Aspöck company

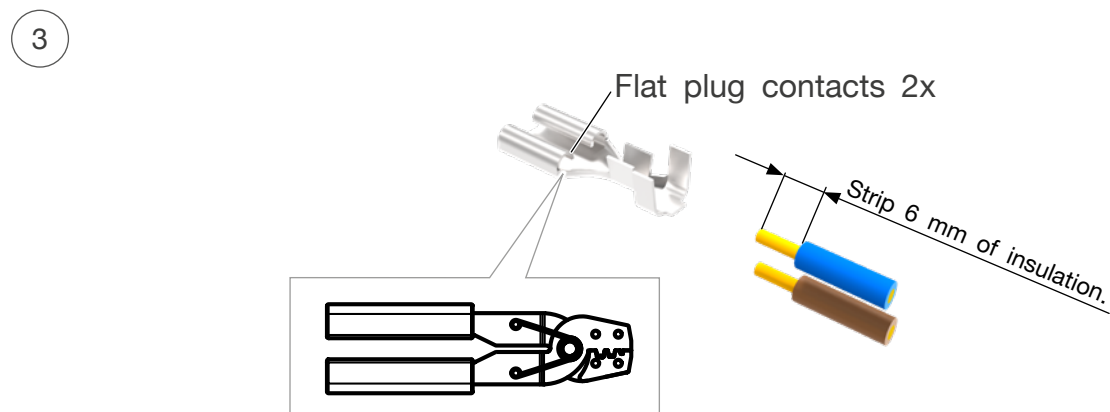
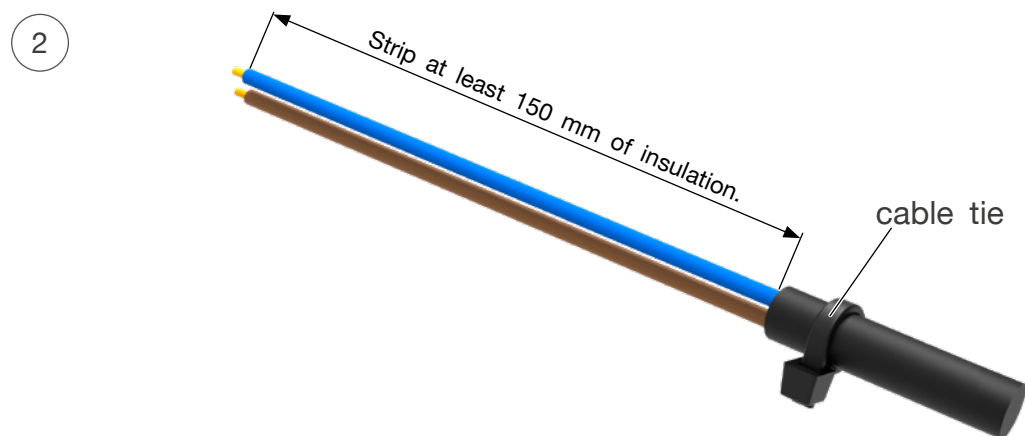
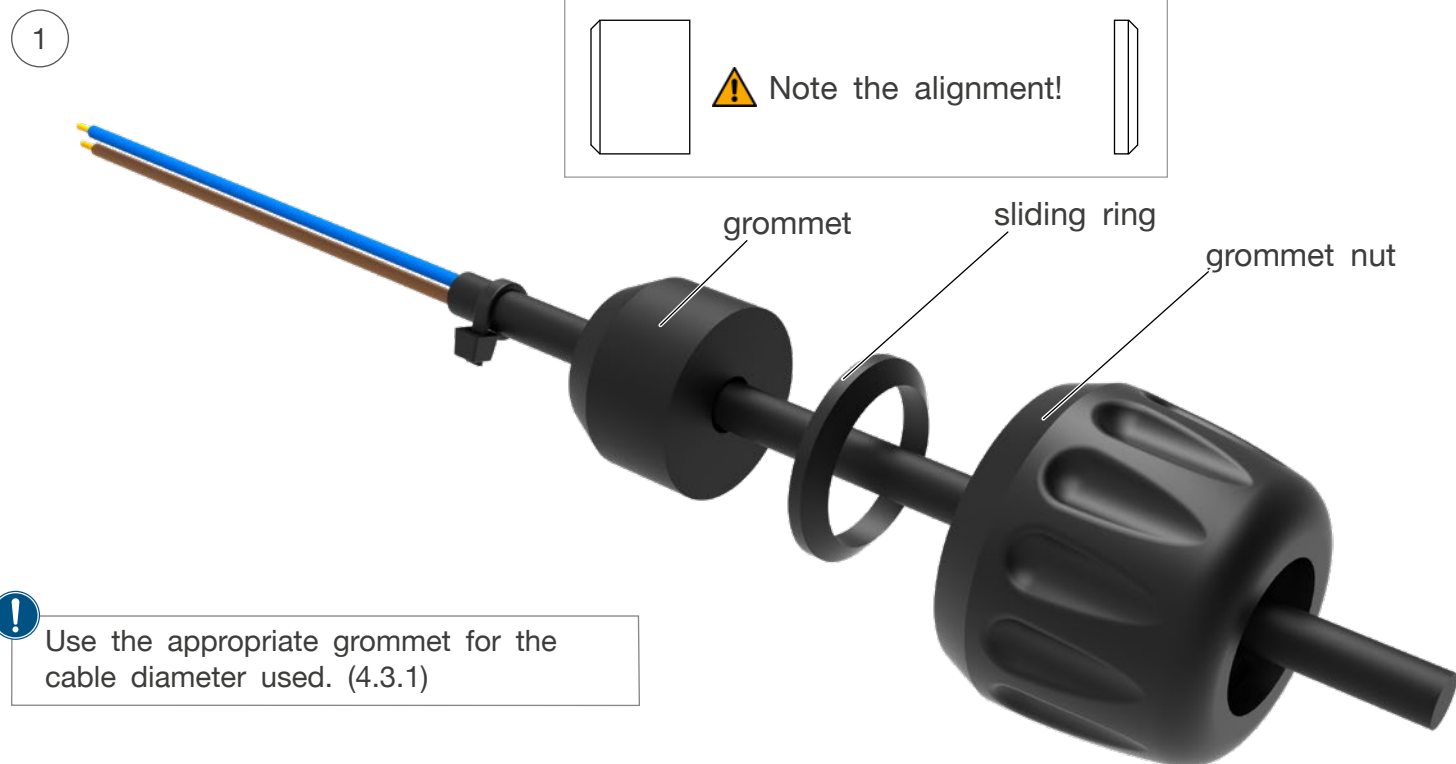


4.2.1 SPARE PARTS

	PART NO	ADDITION
SPARE PARTS	76-5202-007	Junction box XL basic (empty/not wired)
	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

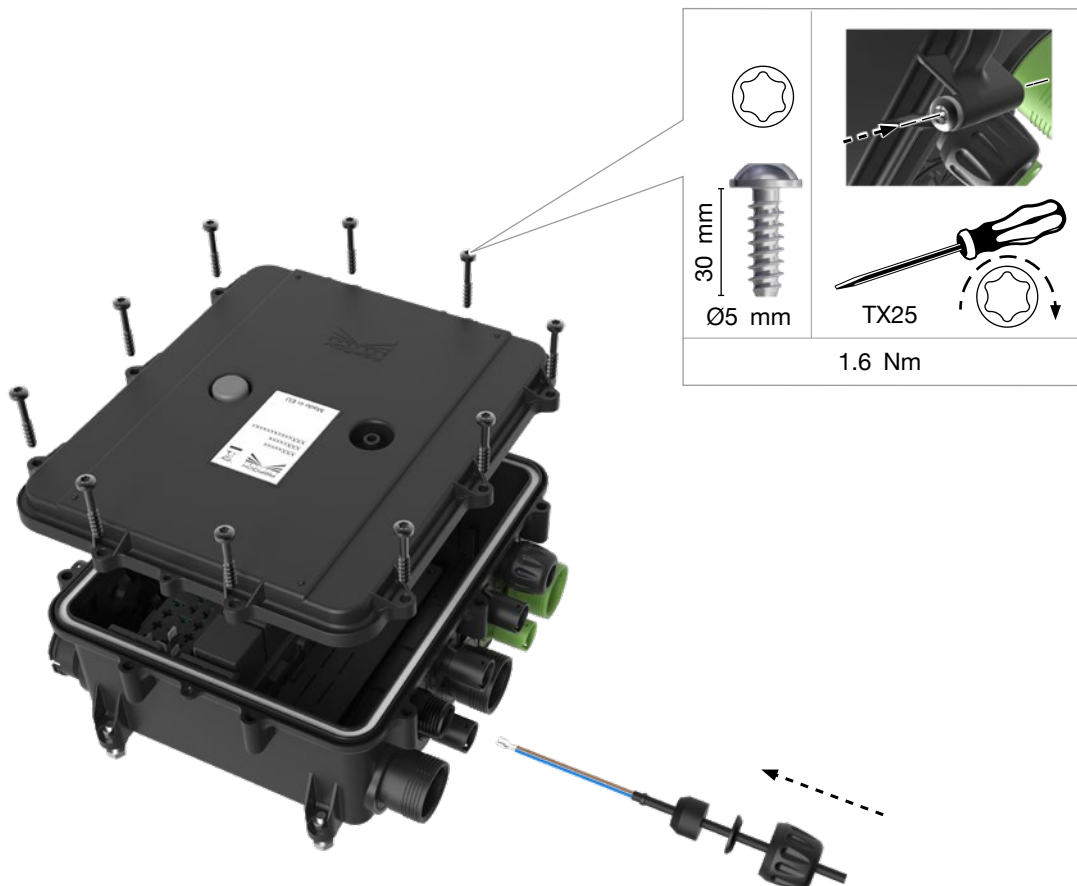


4.3 RETROSPECTIVE WIRING





4



5










HINWEIS

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



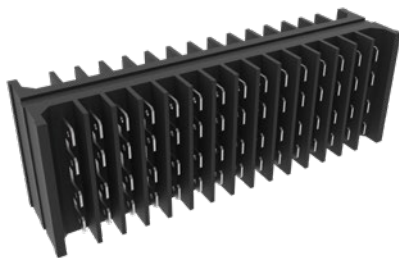
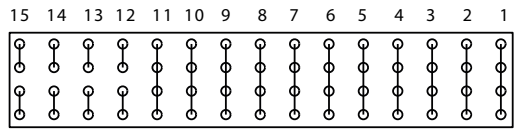
4.3.1 XL JUNCTION BOX - GROMMETS

	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.

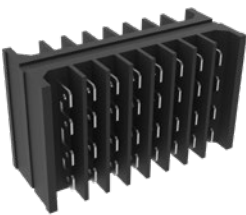
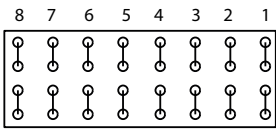


4.4 EQUIPMENT OPTIONS

4.4.1 PLUG CONNECTORS



15 columns / 4 rows
11x8 pin + 8x4 pin



8 columns / 4 rows
16x4 pin



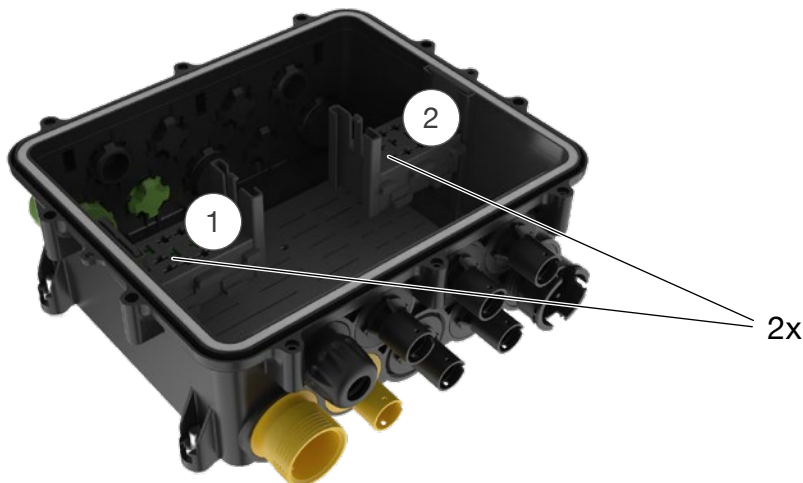
1x relay inserts required



2x relay inserts required

4.4.1 AUXILIARY RELAYS

Possible positions of the relay holders in the XL junction box.





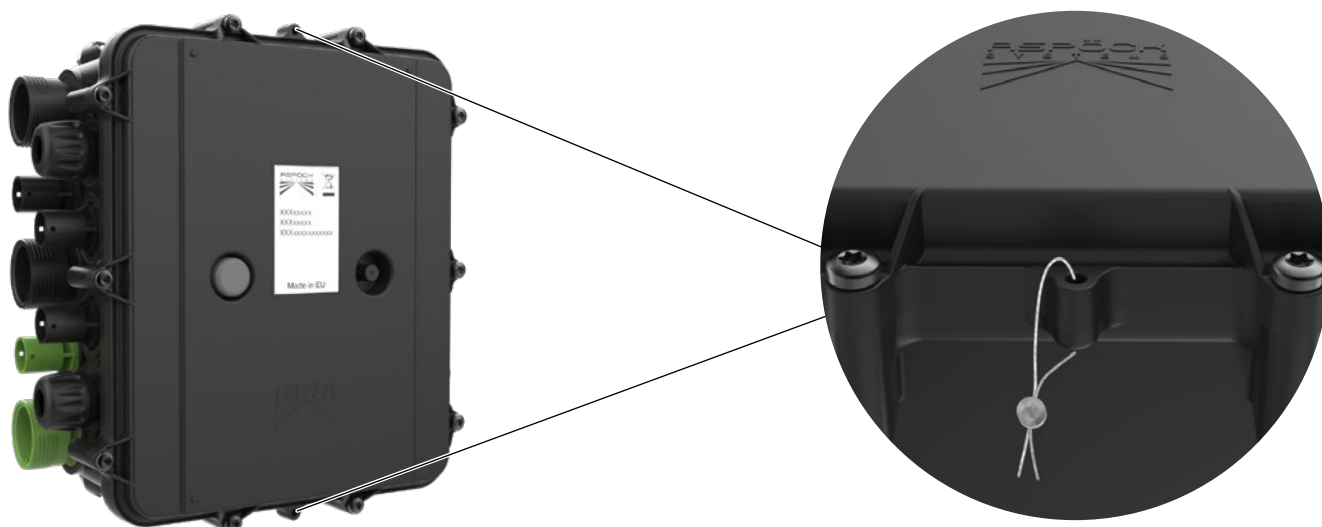
4.4.2 JUNCTION BOX INSERT

It is possible to install the junction box insert of the ASS junction box.



4.4.3 SEALABILITY

The XL junction box offers the option of sealing at two different points.





5. WORKSHOP INSTRUCTIONS

5.1 MAINTENANCE

The XL 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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