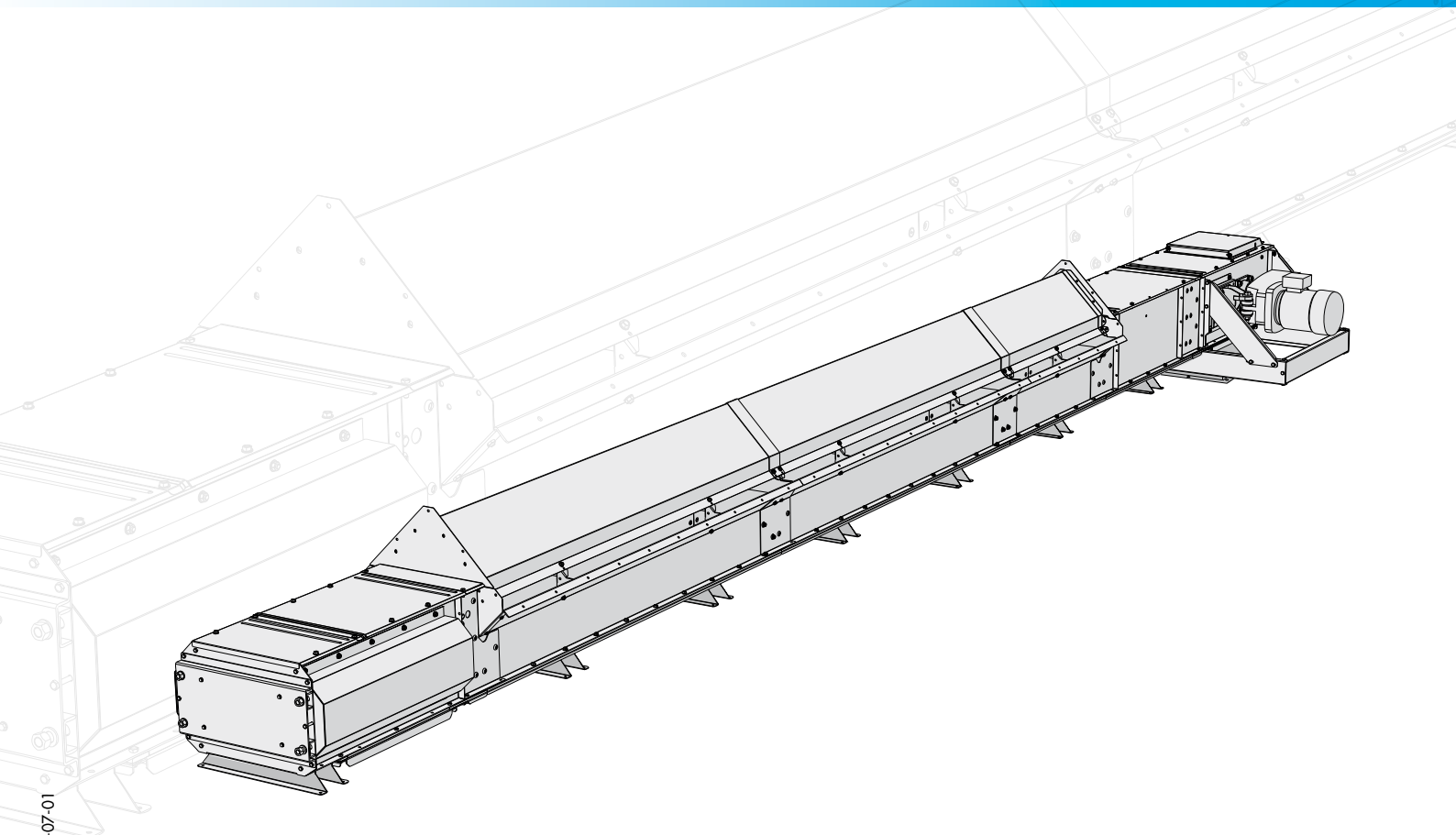




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Goods inspection

Check that the number of packages agrees with the delivery note and that the packing and goods are not damaged. Make a note of any damage and missing materials on the consignment note and report it to the carrier and to us. Make sure the delivery is complete after unpacking the goods. Any materials that are found to be incorrect must not be assembled.

Warranty

A 2-year factory warranty from the day of delivery applies to all models of Skandia Elevator AB machinery. A condition of the warranty and any subsequent compensation is that Skandia Elevator AB is contacted and an agreement reached between the customer and Skandia Elevator AB on how any faults should be rectified. The warranty covers all parts that are damaged or break due to faulty design or manufacture. Faults and damage caused by faulty assembly, incorrect use or lack of maintenance will not be covered by the warranty.

CE mark

A CE mark is located on the transmission side of the drive and is proof that the machine has been manufactured in accordance with EU machine directives and complies with safety requirements. The CE mark contains information concerning year of manufacture, model designation and order number. Always specify the order number in the event of a claim and on orders for spare parts.

EC Declaration

Skandia Elevator AB
Arentorp
S-53494 Vara
SWEDEN

declare under our sole responsibility that the product:

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order number:

.....
to which this declaration relates is in conformity with Council Directive of 29 December 2009 on the harmonisation of the member States relating to machinery, 2006/42/EC.

Unless otherwise specified on the CE mark, the product is manufactured in accordance with EU Machinery Directive and is classified as Category III 3D/OD. It is intended for the transport of materials that correspond with ATEX Zone 22 and the external environment is unclassified.

Vara 29/12 2009

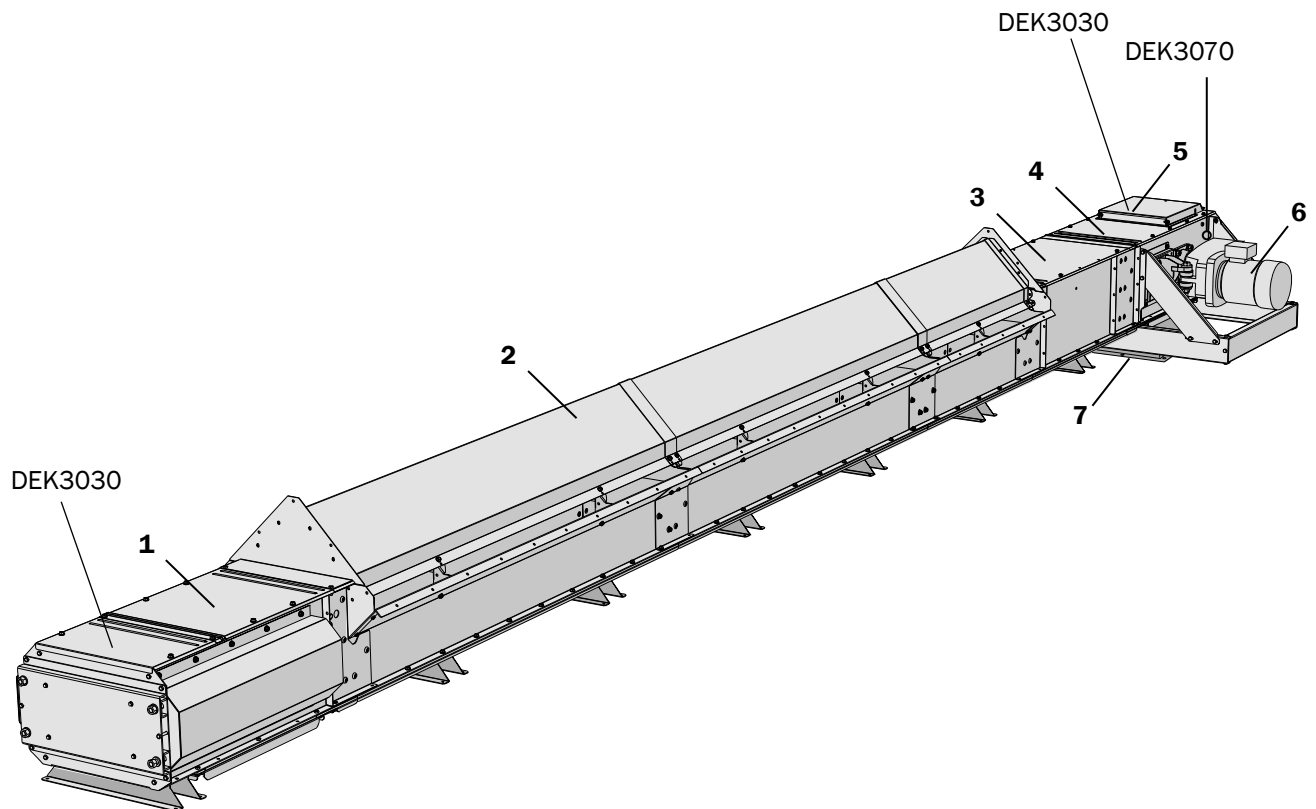
Joakim Larsson, CEO

Thank you for choosing Skandia Elevator!

Your conveyor system must be assembled correctly and maintained thoroughly if it is to operate satisfactorily. These assembly instructions and the separate maintenance instructions must be followed for the warranty to apply.

We hope you will be pleased with your Skandia conveyor equipment for a long time.

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Parts	Pos.
Tail end	1
Trench intake section	2
Intermediate section	3
Drive	4
Pop-up overloading flap	5
Geared motor	6
Outlet	7
Safety decals	DEK xxxx

The owner of the transport equipment is responsible for these assembly instructions always being available to the fitters, electricians, maintenance technicians and engineering technicians concerned.

Incorrect assembly and/or operation may lead to personal injury or damage to the conveyor equipment and/or other equipment. It can also cause malfunctions or a reduction in capacity.

Read the assembly instructions carefully before assembly, electrical connection, maintenance or operation commences. If any part of these instructions should be difficult to comprehend, please get in touch with your reseller for assistance.

The safety information is presented and interpreted as follows:



WARNING!

Disregarding instructions given in warnings can cause serious personal injury or death.



IMPORTANT!

Ignoring the instructions given in important texts may cause damage to the conveyor equipment and/or other equipment. It can also cause malfunctions or a reduction in capacity.

NB! indicates that the text contains information that will simplify the assembly process.

General



WARNING!

- Ensure that everyone responsible for assembly, electrical connection, maintenance and operation of the conveyor equipment has read and understood the instructions and safety information.
- Use protective gloves, helmet, steel-toed boots, ear defenders, protective goggles and high-vis vest when carrying out assembly, electrical connection, maintenance and operation of conveyor equipment.



WARNING!

- Stop the machinery and turn off electric power before attempting any type of assembly, electrical connection or maintenance work.
- Do not start the machinery without the lid, hatches, covers, guards and connections fitted in such a way they can only be opened with tools.
- Connections to, from and between machinery must be permanently mounted and fully enclosed. If the design of the installation does not allow this at an outlet, finish off with a 1 m pipe.

IMPORTANT!

- If the machine is being assembled outdoors, the motors and transmissions must be fitted with a weather cover.
- The conveyor cannot be operated in both directions.
- If a short circuit should occur, ensure that the electrical equipment is in working order before continuing operation.
- Ensure that the electrical equipment is kept free from dirt, dust, moisture and electrostatic charge.
- The machine is not designed to stand or walk on.

Electrical connection

Incorrect electrical connection may lead to personal injury or damage to the conveyor equipment and/or other equipment. It can also cause malfunctions or a reduction in capacity.

WARNING!

- All electrical equipment is to be connected by a qualified electrician. See separate connecting directions for electronics.
- The power switch must be permanently mounted and located to allow easy access when carrying out maintenance work.
- Ensure the safety switch for the pop-up overloading flap is engaged during operation.

IMPORTANT!

- Ensure the motor protection is set to the correct ampere setting for the motor.
- Ensure the chain switch (optional accessory) is engaged during operation.

Maintenance

Inadequate maintenance may lead to personal injury or damage to the conveyor equipment and/or other equipment. It can also cause malfunctions or a reduction in capacity.

WARNING!

Read the separate maintenance instructions before taking the machine into service.

Safety decals

WARNING!

The machine is supplied with safety decals on delivery. They must not be removed or defaced. If a safety decal becomes damaged, you can order a new one free of charge from Skandia Elevator AB. Specify the part number of the decal. See the section below and the previous chapter Machine Overview.



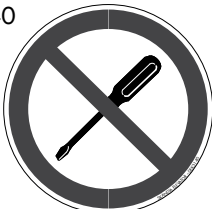
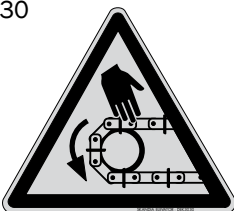

There are safety decals for:









- Mandatory (white symbol on round blue background).
- Forbidden (black strike-through symbol on round white background with red surround).
- Warning (black symbol on triangular yellow background with black surround).

WARNING!

The mandatory instruction, forbiddance or warning given on all safety decals must be considered or serious injury or death may follow.

Skandia Elevator machines have the following safety decals:

Part number/Safety decal Refer to the "Machine Overview" chapter for placement.	Written definition
DEK3090 	Read the "Back stop" section in the elevator's assembly instructions before test starting the motor for the first time.
DEK3100 	Do not place the valve with the motor side face down.
DEK3140 	Changing settings and equipment is prohibited.
DEK3030 	Warning for conveyor chain!
DEK3060 	Warning for bucket belt!

DEK3040		Warning for chain drive!
DEK3050		Warning for belt drive!
DEK3070		Warning for rotating conveyor drive shaft!
DEK3080		Warning for rotating elevator drive shaft!
DEK3110		Warning for moving machinery!
DEK3120		Warning for moving machinery!
DEK3010		Warning for dust explosion!
DEK3130		Warning, a maximum of 2 people = 200 kg/440 lbs may be on the platform and ladders simultaneously!

The conveyor can be assembled directly in place in the installation or separately and then lifted in place. The design and space requirements of the installation and the length of the conveyor will determine which method is most suitable.

⚠ IMPORTANT!

- Ensure the machine is situated correctly in relation to the planned connections.
- The conveyor length must not exceed 14 metres if being lifted after assembly. Its weight must be distributed over several lifting points with one supporting the support frame of the drive. The distance between the lifting points must be a maximum of 12 metres.
- The maximum span between supports for a standard conveyor is 6 metres. This distance is 12 metres if cable supports are used.
- Relieve the weight of the drive with braces to the ground and/or a nearby stable construction. If the machine has a geared motor, brace its support frame. Never use the motor/geared motor to brace on.

1.

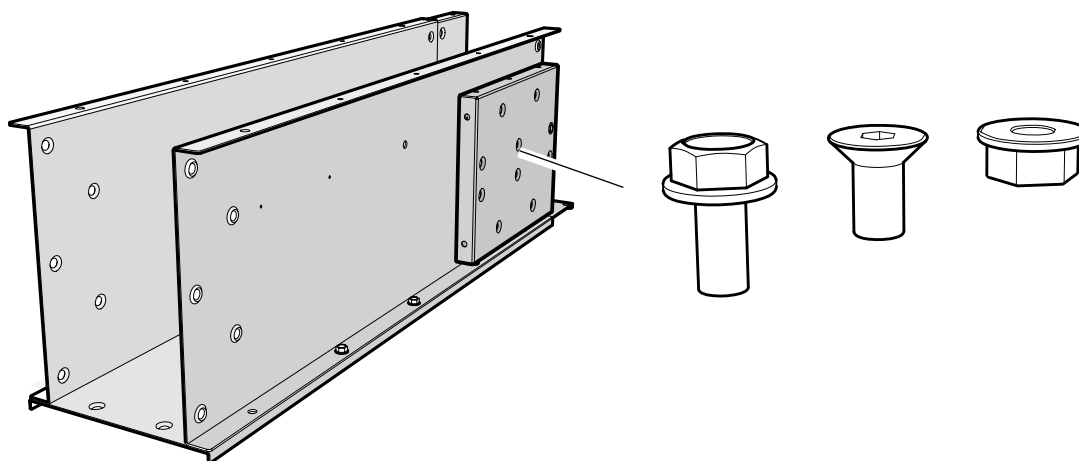
Remove joining plates that are fitted the wrong way round inside/outside intermediate sections and in the drive. bolts for assembling the conveyor are underneath.

NB! The bolt used to fasten the joining plate is not needed for assembly.

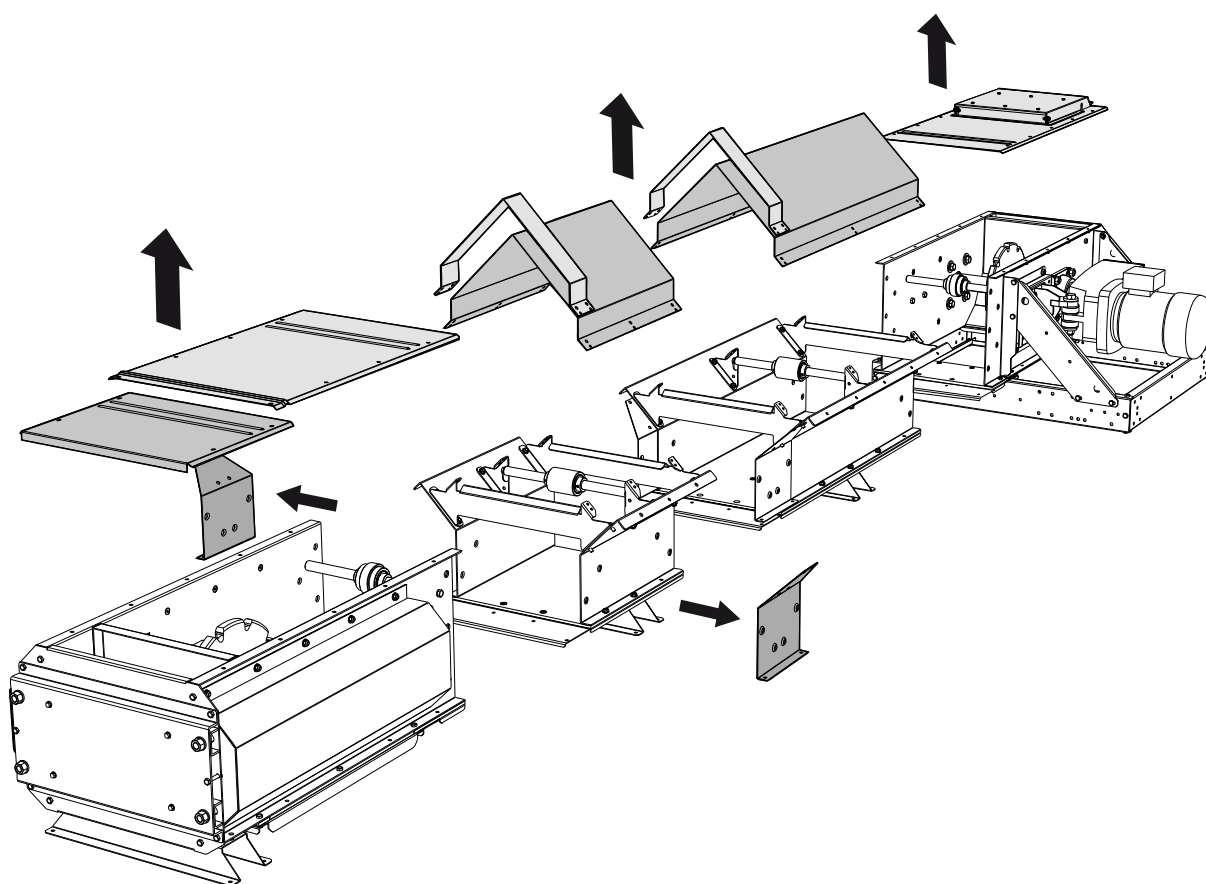
2.

Fit joining plates that have been removed in the same manner and at the same end as the preassembled joining plates.

NB! If an intermediate section/drive is fitted to a trench intake section, specially adapted side joining plates are used. See the section "Assembling the machine".



3.
Lay out the machine parts in the order they are to be assembled.
4.
Remove the lid plates.
5.
Remove joining plates in trench intake sections to be assembled to the tail end/intermediate section.



WARNING!

Connections to, from and between machinery must be permanently mounted and fully enclosed. If the design of the installation does not allow this at an outlet, finish off with a 1 m pipe.

Assemble the outlet as instructed in the section "Assemble the machine".

IMPORTANT!

- Use only recommended outlet and connecting components.
- Ensure the ducting is dimensioned sufficiently and that its angle of inclination is at least 45°.

Trench intake section

A trench intake section is a self-regulating inlet used for feeding from an intake pit.

Connection between trench intake section and intake pit

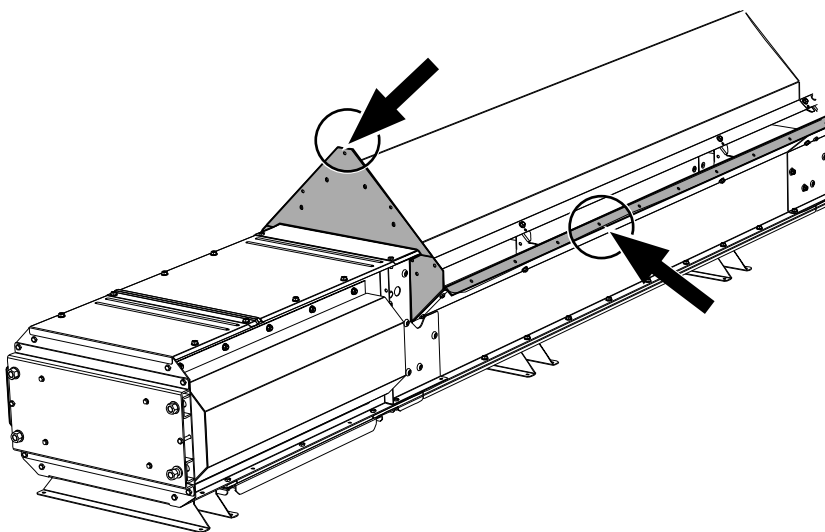
The trench intake section is designed so that it can be connected to the intake pit.

WARNING!

- Connection between the trench intake section and the intake pit must be permanently mounted and enclosed.
- The intake pit must be fitted with a permanent protective grating

IMPORTANT!

The full weight of the intake pit must never rest on the conveyor.



Connection to subsequent machine

Connect the conveyor to the subsequent machine according to its assembly instructions.

1.
Push together the machine parts.

⚠ IMPORTANT!

Ensure the machine parts are assembled in a straight line and are not twisted.

2.
Fit the bottom bolts.
NB! Use lock nuts.
Fit the side bolts.

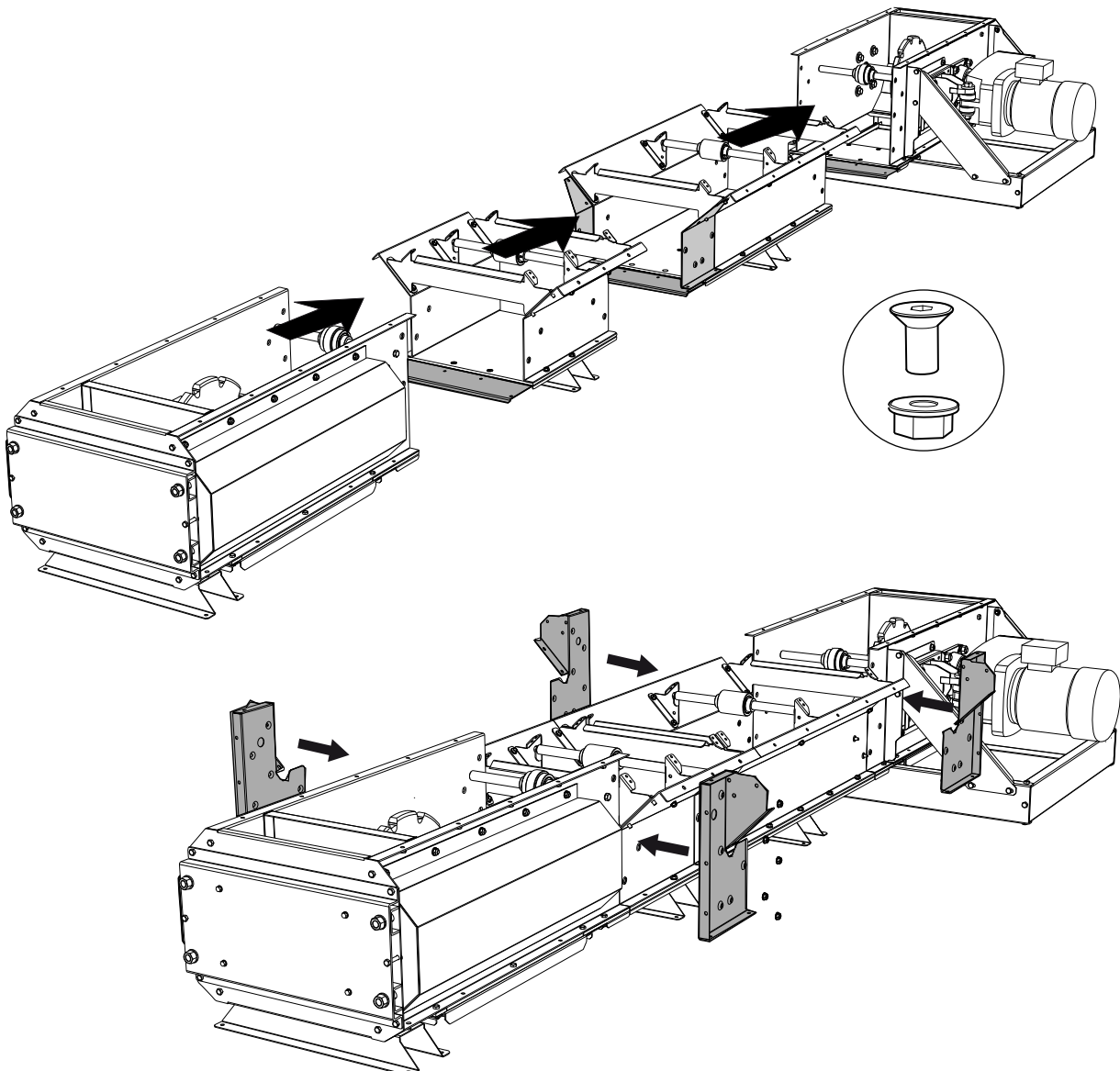
⚠ IMPORTANT!

Ensure the bottom joints are smooth.

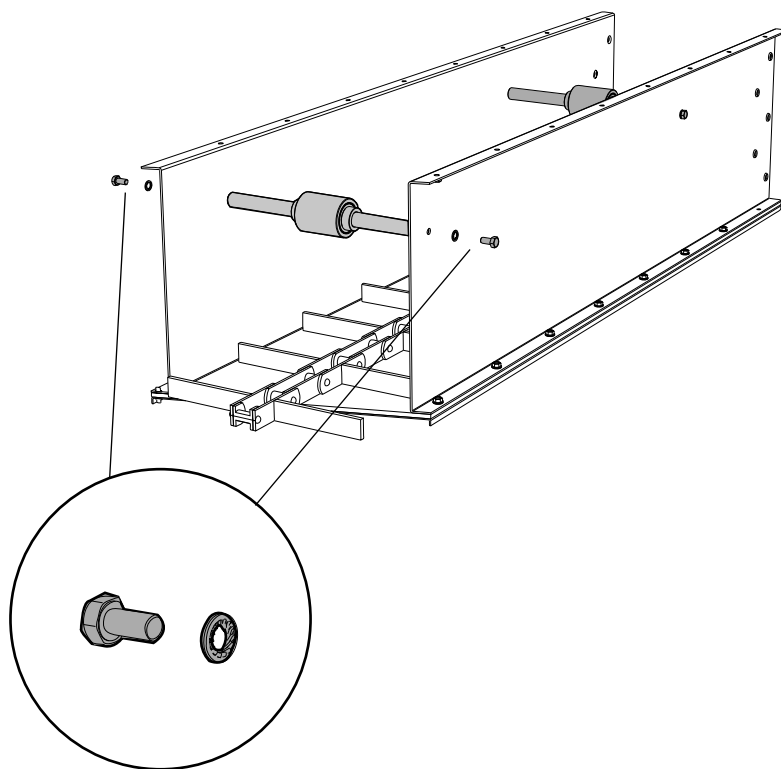
3.
Assemble the side joints.

⚠ IMPORTANT!

When assembling outdoors, the joints in the side plates, lid and inlet must be sealed with silicone.



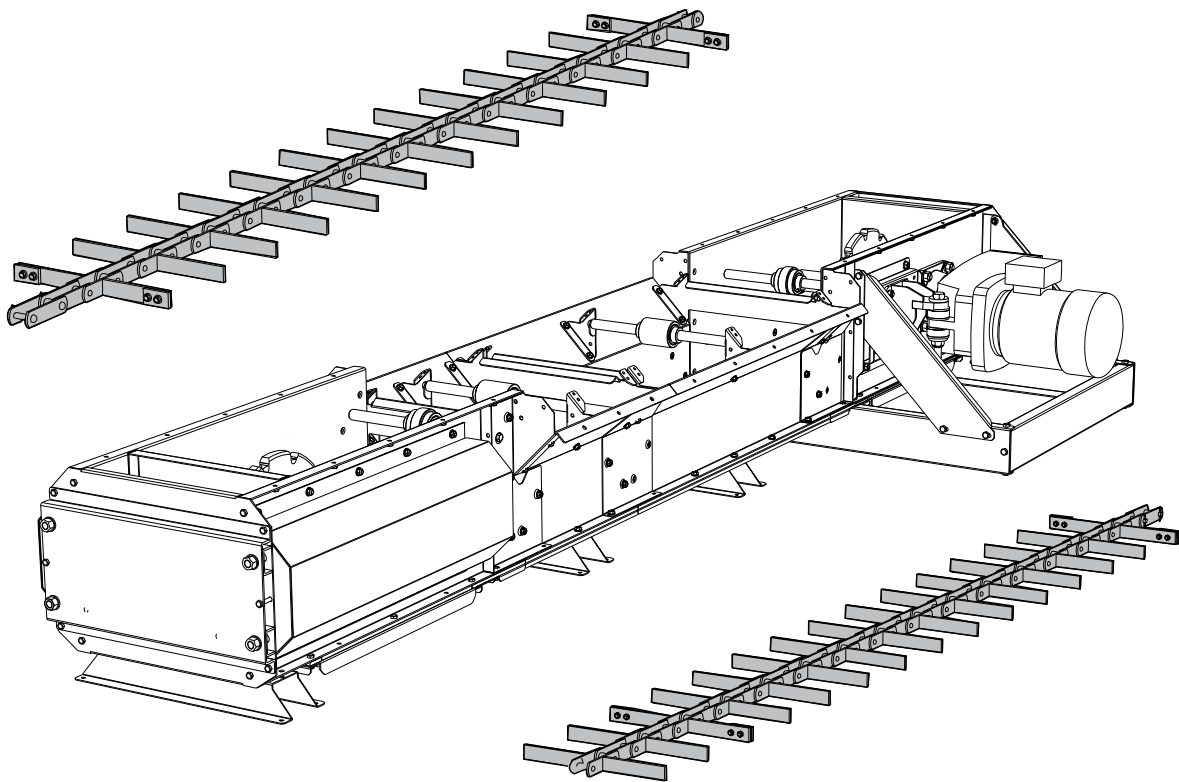
4.
Fit the chain return rollers in the intermediate sections.



5.
Assemble the lengths of chain in the bottom of the conveyor.
6.
Assemble the chain lengths on the upper level of the conveyor.
7.
Assemble the conveyor chain over the drive's chain sprocket.
8.
Slide the tail end shaft to forward position, towards the drive.
Position the conveyor chain over the tail end's chain sprocket. Shorten it if necessary to the correct length and then assemble it.

⚠ IMPORTANT!

Ensure the conveyor chain is centred, runs freely and does not foul the sides of the conveyor.



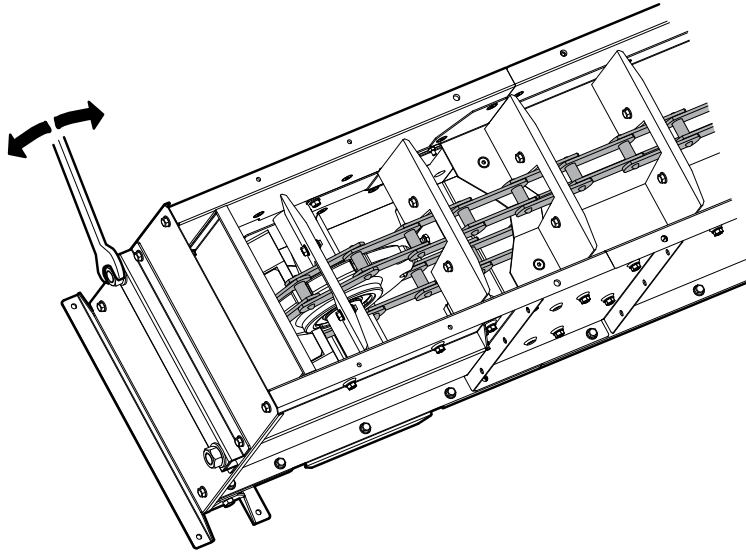
9.

Tighten the conveyor chain with the tensioning bolts in the tail end.

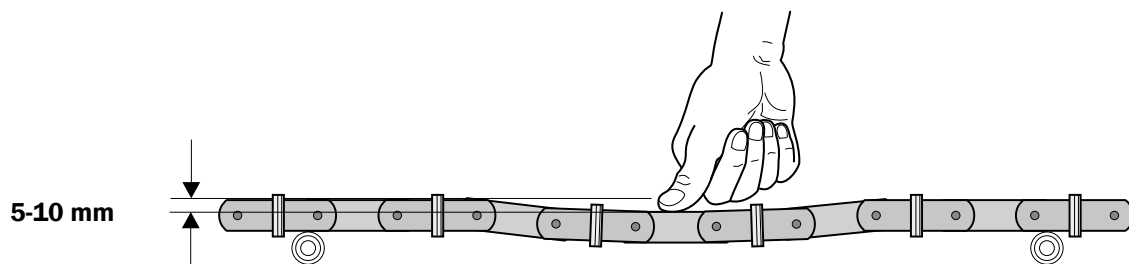
NB! The tensioning bolts have self-locking fixed nuts inside the conveyor.

⚠ IMPORTANT!

- Ensure the tail end shaft is at right angles to the conveyor chain.
- Ensure the conveyor chain is not tensioned too much.



Check the tension of the conveyor chain by pressing it down between the two return rollers. If it can be pressed down 5-10 mm it is tensioned correctly.



10.

Once assembly of the conveyor is complete, test run it for a while and then check the tension once again.

A new conveyor chain must be run for a period and then readjusted.

⚠ IMPORTANT!

Check the conveyor chain after 50 operating hours. See separate maintenance instructions for information on maintenance.

11.

NB! Assemble the outlet with existing bolt.

12.

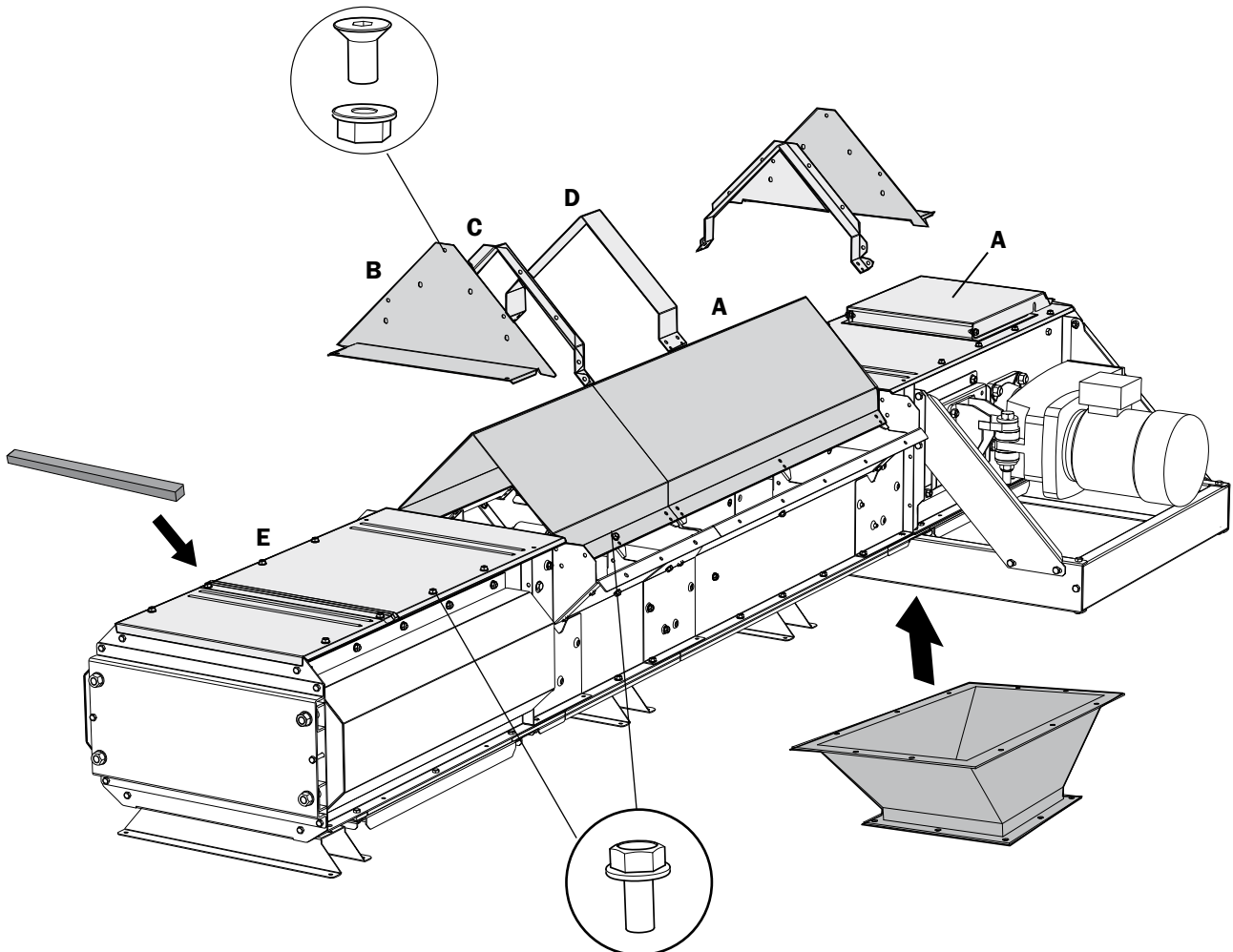
Assemble the lid and joining plates in the order A-E.

NB! Use the joining plate to cover joints in the lid that do not overlap.

NB! The lid joints on some conveyors are bent up and fitted to each other with flange nuts and bolts.

⚠ IMPORTANT!

- Fit rubber mouldings in the joint grooves.
- When assembling outdoors, the joints in the side plates, lid and inlet must be sealed with silicone.



13.

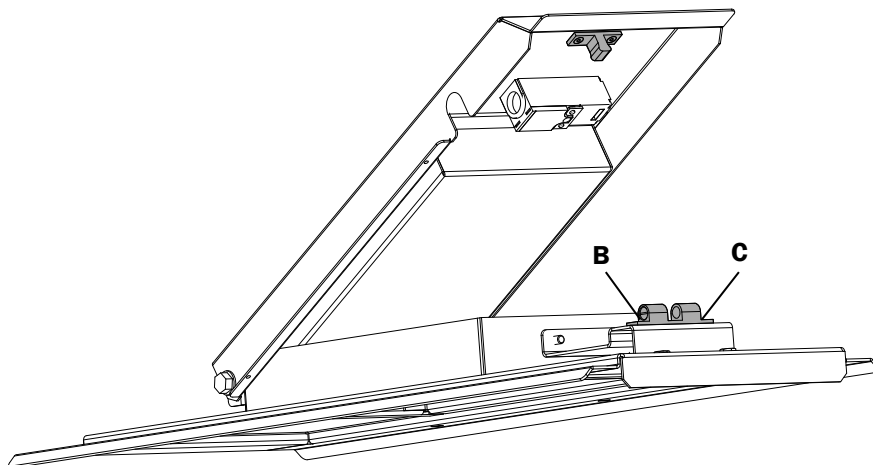
⚠ WARNING!

The rotating drive shaft is partially exposed between the gearbox motor and the drive if the weather cover is not used.

14.

Pop up overloading flap (A) with safety switch stops the conveyor if it is overloaded or when the pop up overloading flap is opened.

NB! The overload flap is equipped with an adjustable snap lock. The resistance of the snap lock can be regulated with screws (B) and (C). Screw inward to increase the resistance and outward to decrease. This ensures that the flap only opens (and power shuts off) at actual overfill or deliberate opening.



⚠ WARNING!

- Ensure the safety switch for the pop-up overloading flap is engaged during operation..
- All electrical equipment is to be connected by a qualified electrician. See separate connecting directions for electronics.



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