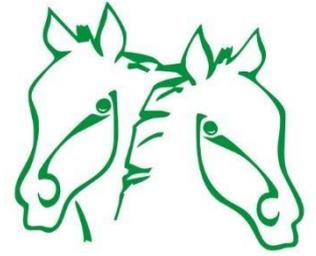


English



*Valetudo Horse Products*

# Service manual

## Replace motor



**Valetudo Horse Products BV**

**FeedingMaster Pro**

The FeedingMaster Pro is produced by:

Valetudo Horse Products BV  
Lage Scheiddijk 4  
7261RL Ruurlo  
The Netherlands  
[www.VHProducts.eu](http://www.VHProducts.eu)

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Original service manual.

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Dear customer,

We are sorry that your FeedingMaster Pro has malfunctioned. Fortunately, it is easy to repair with the parts provided and this service manual. This manual explains how to do this, so please read the manual carefully.

Pay extra attention to sentences preceded by one of the following words:

**WARNING:** If the indicated instructions are not followed, there is a risk of serious injury to you or your horse.

**TIP:** Useful information that helps you perform certain steps more easily or check them in another way.

We would like to see you satisfied. If you have any questions about certain steps, please feel free to contact us at [Service@VHProducts.eu](mailto:Service@VHProducts.eu). We will do our best to answer your question within 24 hours.

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# 1. Safety Instructions

Before starting the repair, you should be aware of the risks involved if you do not fully follow the instructions in this manual.

The following important safety precautions must be observed when working on a FeedingMaster Pro:

- Certain parts in the controller carry the mains voltage. Never open the housing of the controller when the FeedingMaster Pro is connected to the mains.
- During a fault, the FeedingMaster Pro may suddenly switch on or off parts of the drive. Therefore, never carry out service work when the FeedingMaster Pro is connected to the mains voltage.
- Never make any adjustments to the FeedingMaster Pro other than described in this manual.

**WARNING:** Remove the mains plug from the wall socket and wait at least 10 seconds before starting any service work.

# 2. Introduction

This service manual describes step by step how the malfunction can be repaired. A checkbox is placed before each step. It is advisable to check this off when the step has been completed. This prevents a step being swapped or skipped.

Is a certain step not clear or do you have other questions? Then you can always contact us, we are happy to help you.

**TIP:** It is advisable to place a blanket or piece of cardboard in and in front of the FeedingMaster Pro. If small parts accidentally fall, you will not lose them in the sawdust or other bedding.

### 3. Replace motor

- [ ] Switch off the FeedingMaster Pro by removing the mains plug. Wait 10 seconds for the display to turn off.



- [ ] Open the grid



[ ] Remove the two allen bolts holding the controller with a 5mm allen key.



[ ] Grab the controller and tilt it forward as far as possible.



- [ ] Lift the controller between the mounting brackets.



- [ ] Tilt the controller 90 degrees clockwise and place it on the right mounting bracket.



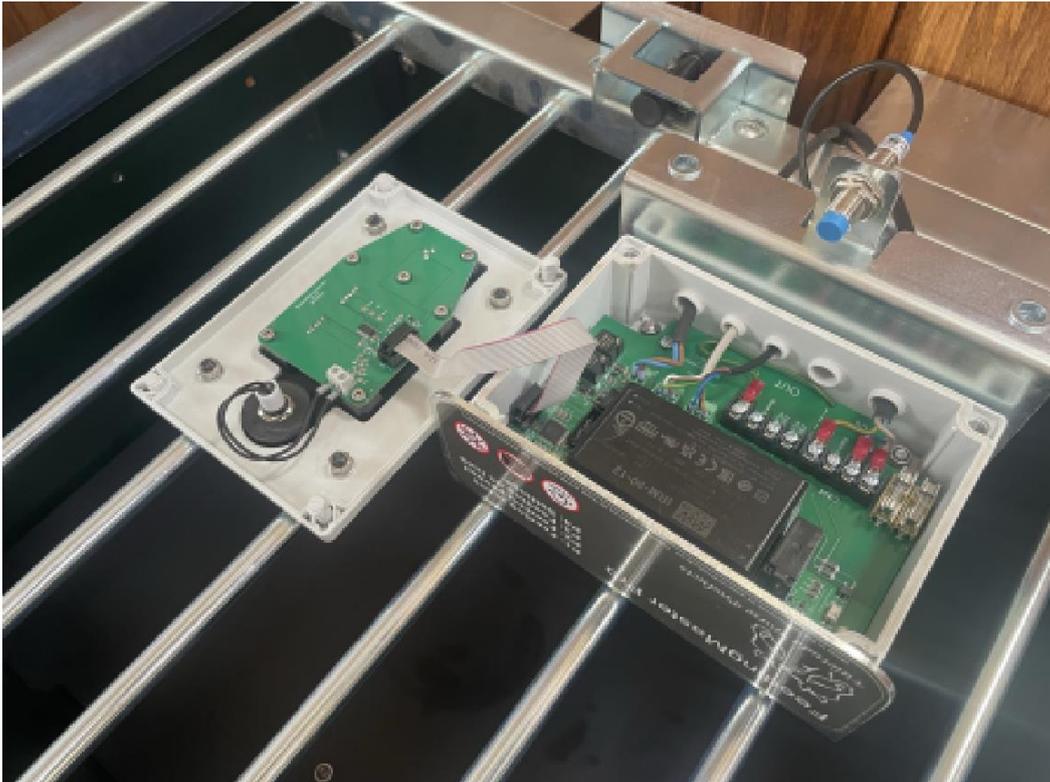
[ ] Close the grid and place the controller on the grid.



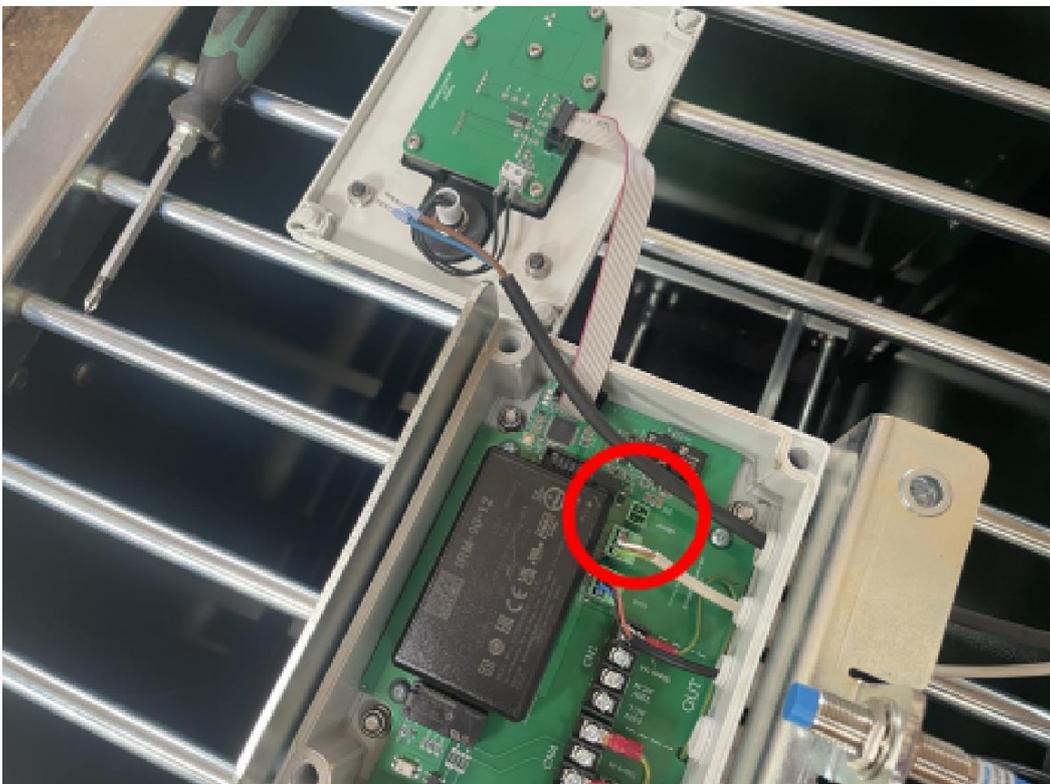
[ ] Unscrew the 4 bolts from the front of the controller housing with a Phillips screwdriver. The bolts are secured to the front of the housing. These can only be unscrewed, but not removed.



[ ] Lift the front of the housing and place it to the left of the controller.



[ ] Remove the plug from the connector labeled "Motor".

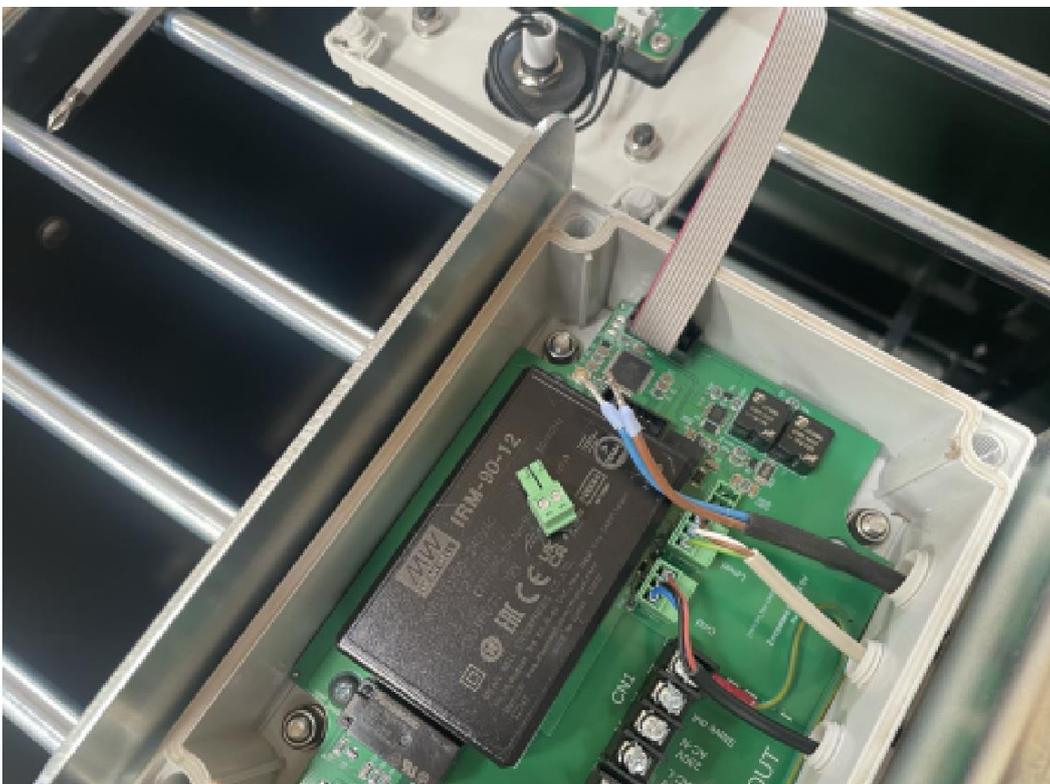


[ ] Loosen the terminals of the plug with a small flat screwdriver.

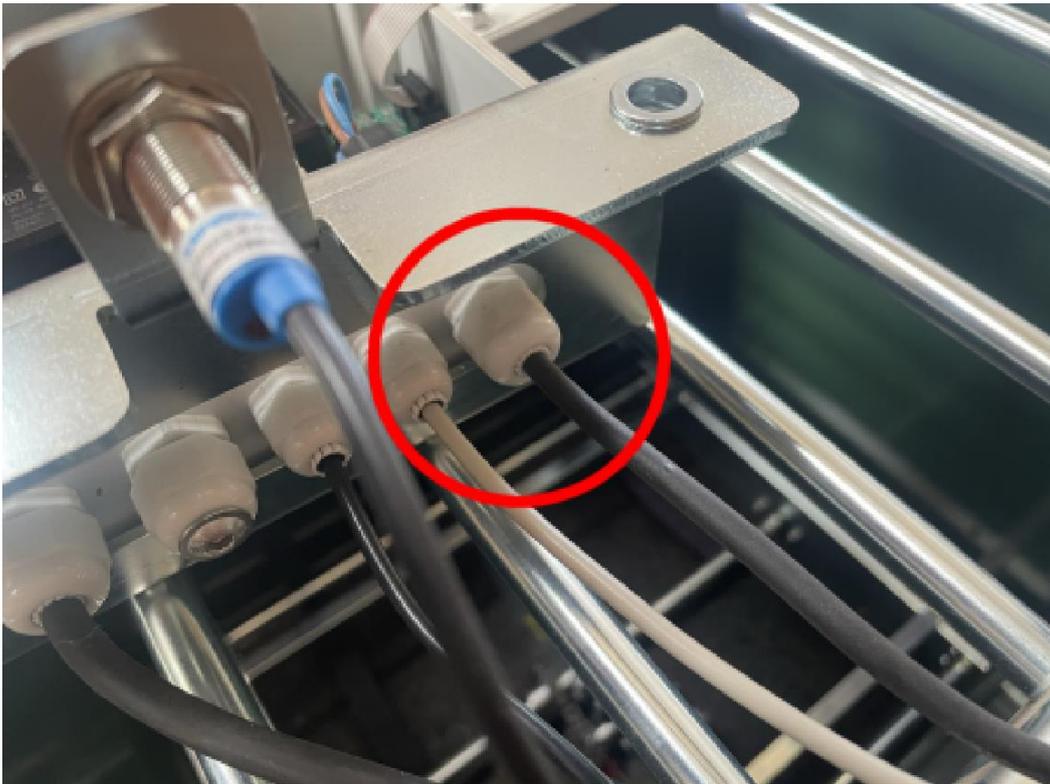
**TIP:** Take a photo of the plug so that it is clear which color wire is in which connection of the plug. Then this can be used later if there is any doubt when connecting the wires.



[ ] Remove the wires from the plug.



- [ ] Unscrew the last part of the strain relief at the rear of the controller unit that feeds the motor cable into the controller unit. Remove the cable from the strain relief. Place the loosened part of the strain relief back half a turn so that it is not forgotten later.



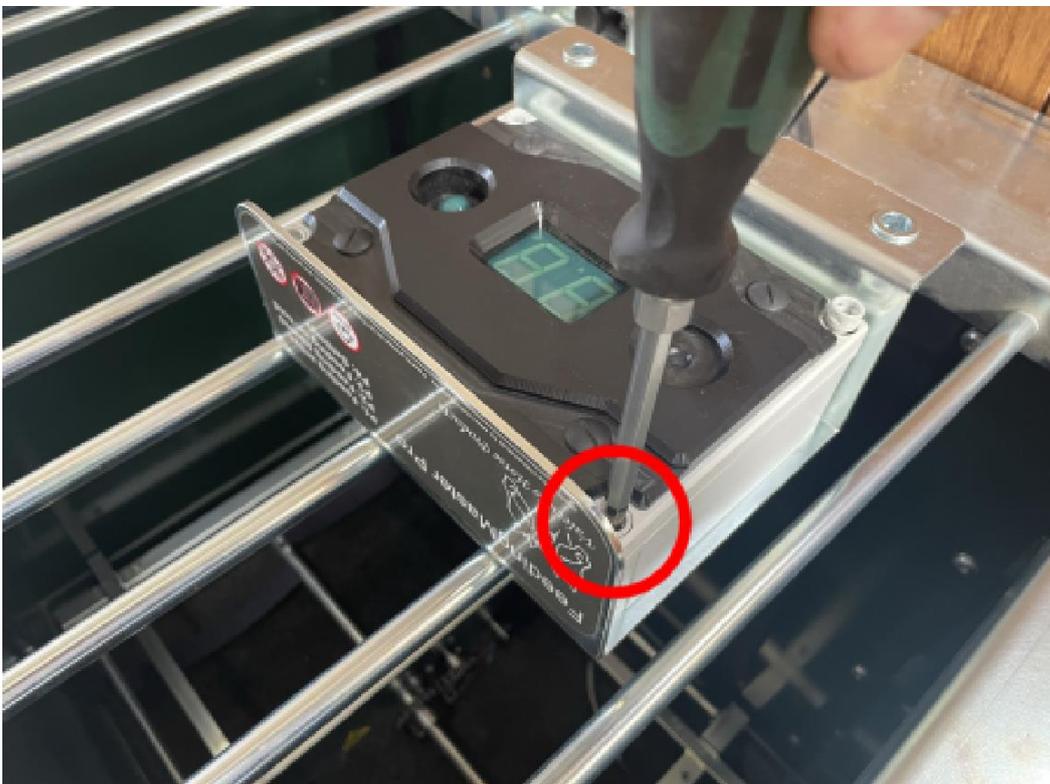
- [ ] Place the front of the housing above the controller housing. Carefully press the cable of the display into the corner of the housing.



- [ ] Place the front of the housing on the controller housing. Check that there are no wires between the parts and that the front of the housing rests neatly on the back of the housing.



- [ ] Secure the front of the housing by lightly tightening one of the nuts.



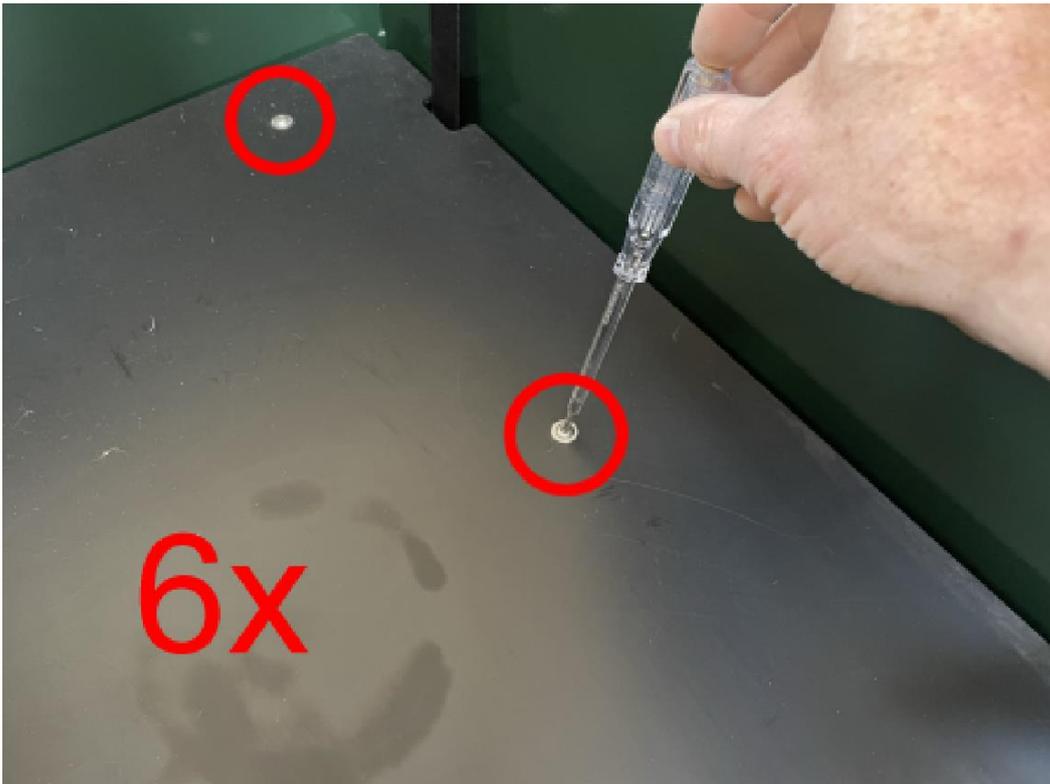
[ ] Place the controller back on the right mounting bracket.



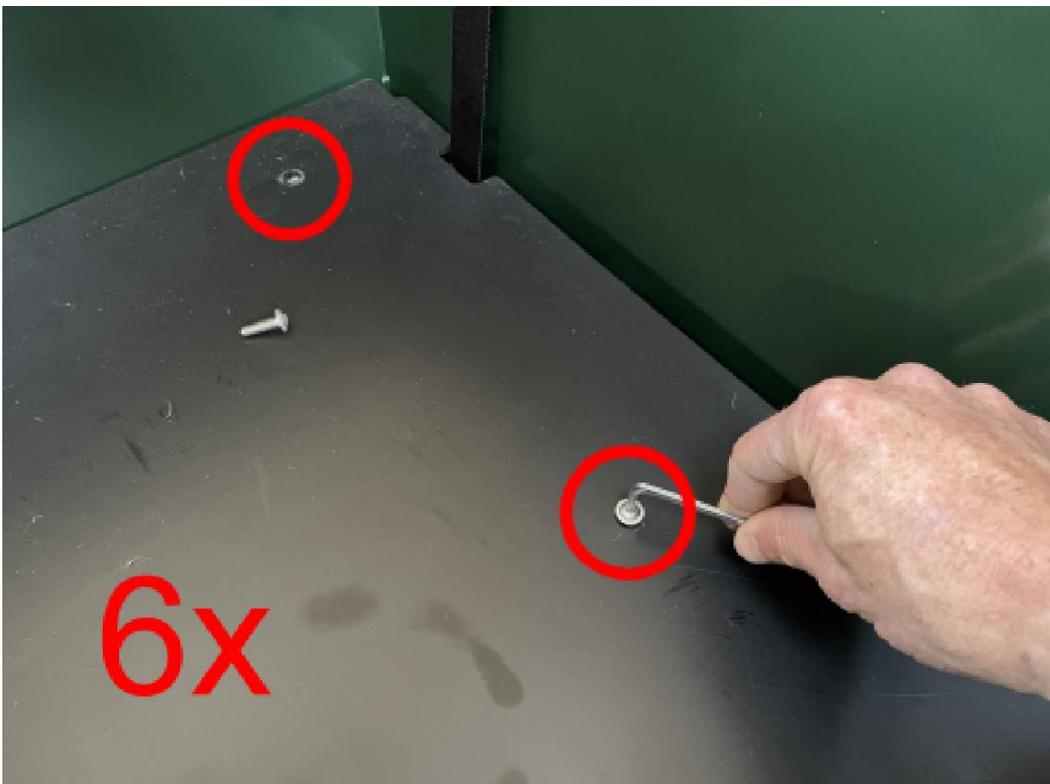
[ ] Open the grid. To prevent the grid from touching the grid sensor, it may be necessary to lift the control slightly while opening the grid.



- [ ] Remove the dust from the allen bolts of the feed floor by loosening the dust with a small screwdriver and then blowing it away.



- [ ] Unscrew the 6 allen bolts from the feed floor with a 4mm allen key.



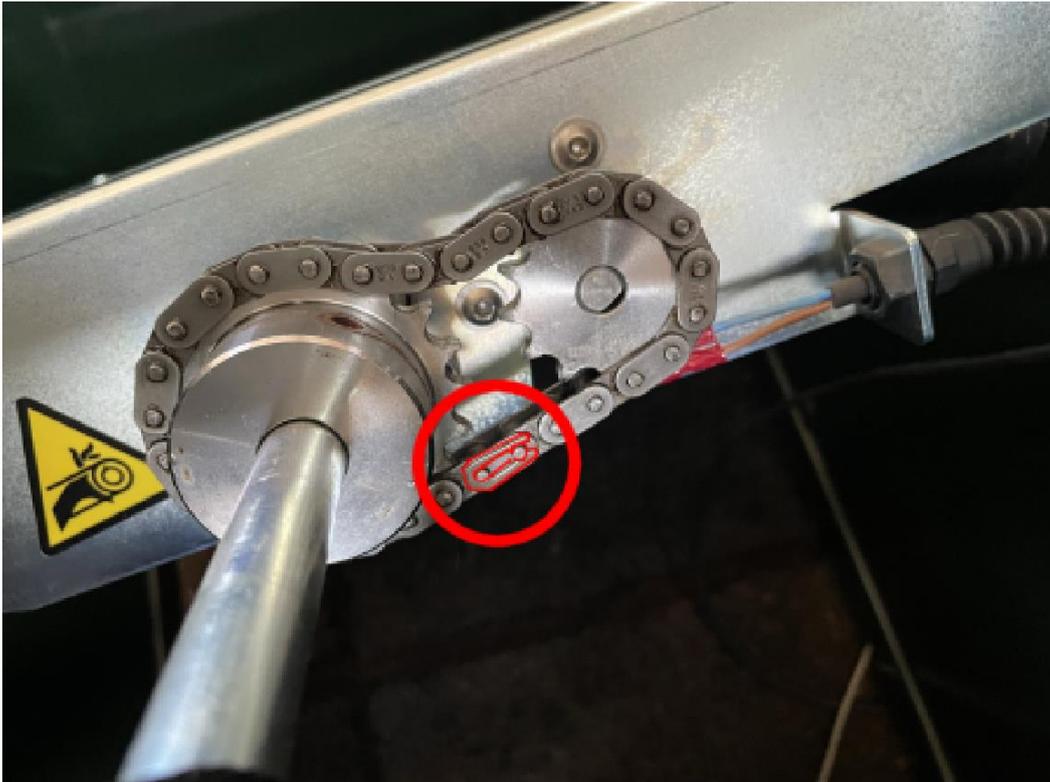
- [ ] Remove the feed floor from the FeedingMaster Pro.



- [ ] Tilt the feed mechanism so that the chain is clearly visible.



[ ] Look for the coupling part in the chain.



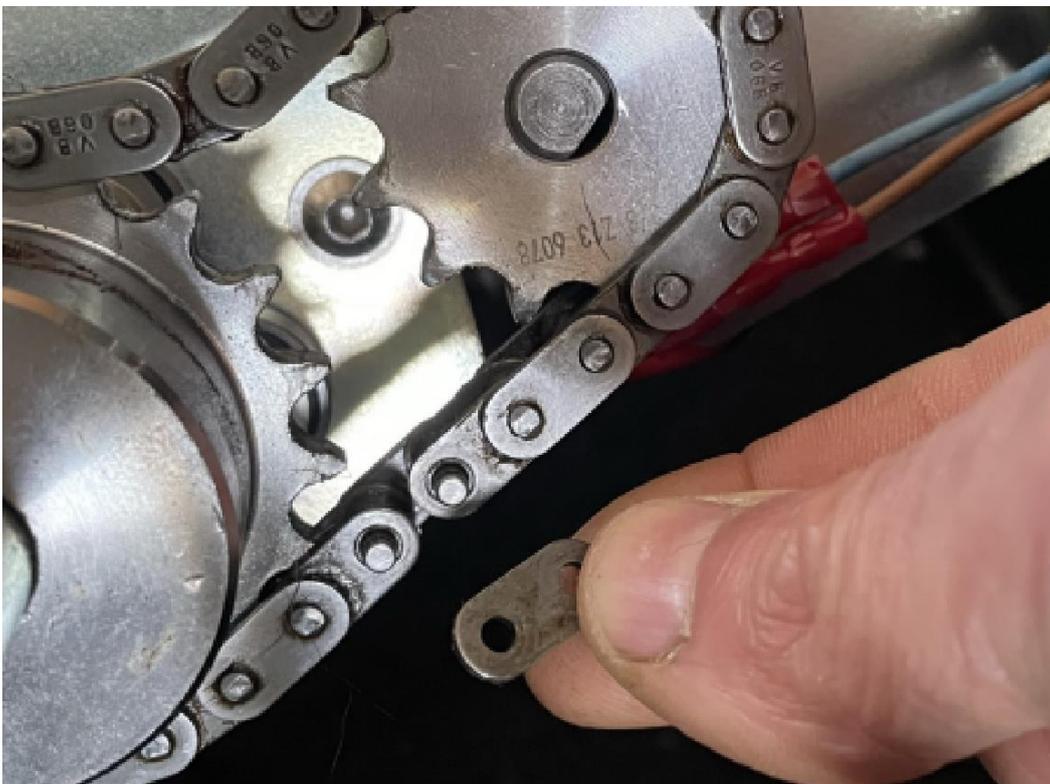
[ ] Using needle-nose pliers, squeeze the retaining clip backwards.



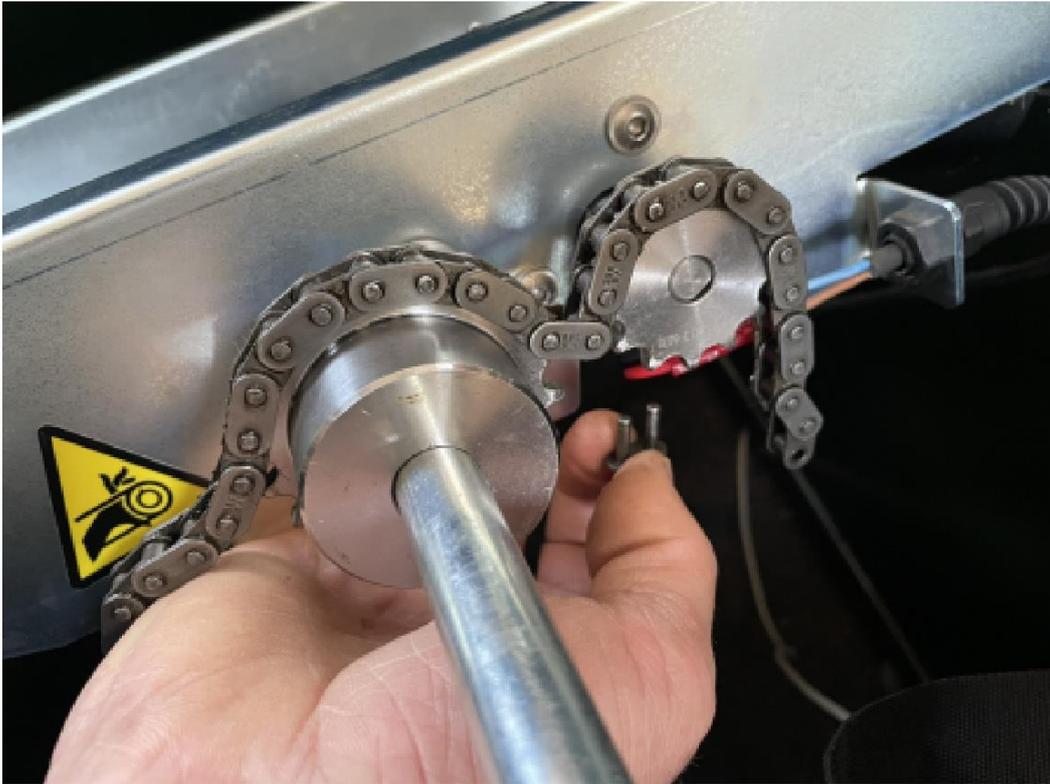
[ ] Remove the retaining clip from the retaining plate.



[ ] Remove the retaining plate from the coupling part.



- [ ] Remove the coupling part from the chain. Hold the feed mechanism securely so that it does not fall once the chain has been released.



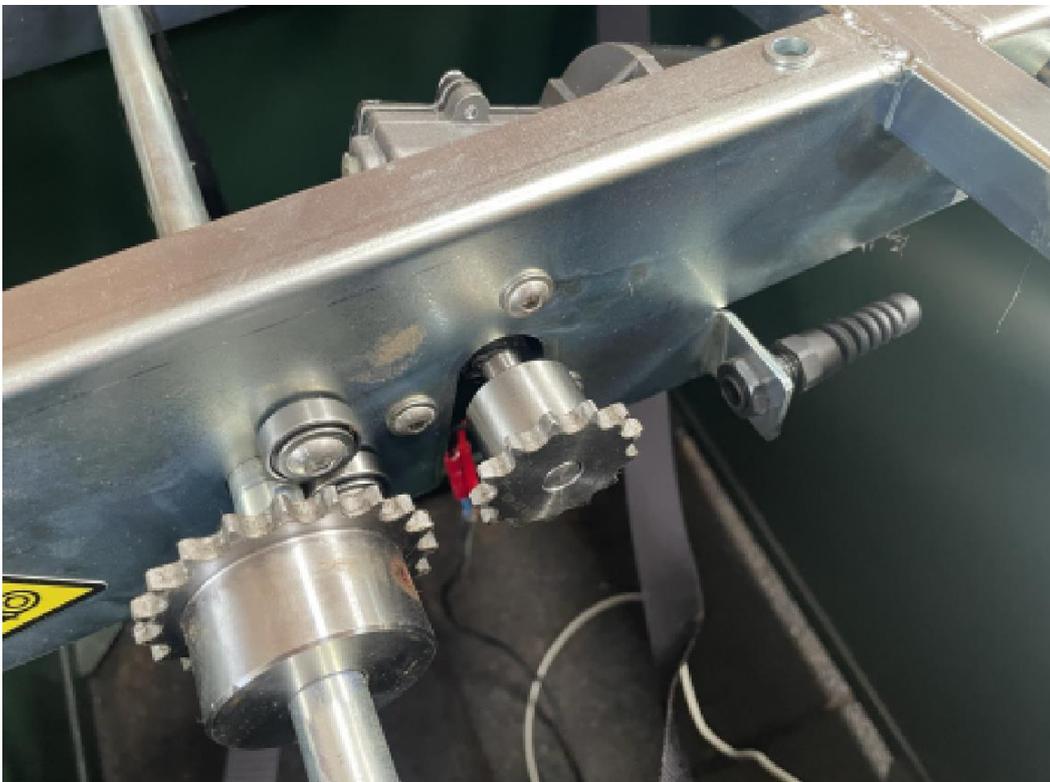
- [ ] Lift the feeding mechanism out of the FeedingMaster Pro. Rotate it 90 degrees clockwise and place it on the top edge of the FeedingMaster Pro. The blue height sensor is then located at the front of the FeedingMaster Pro.



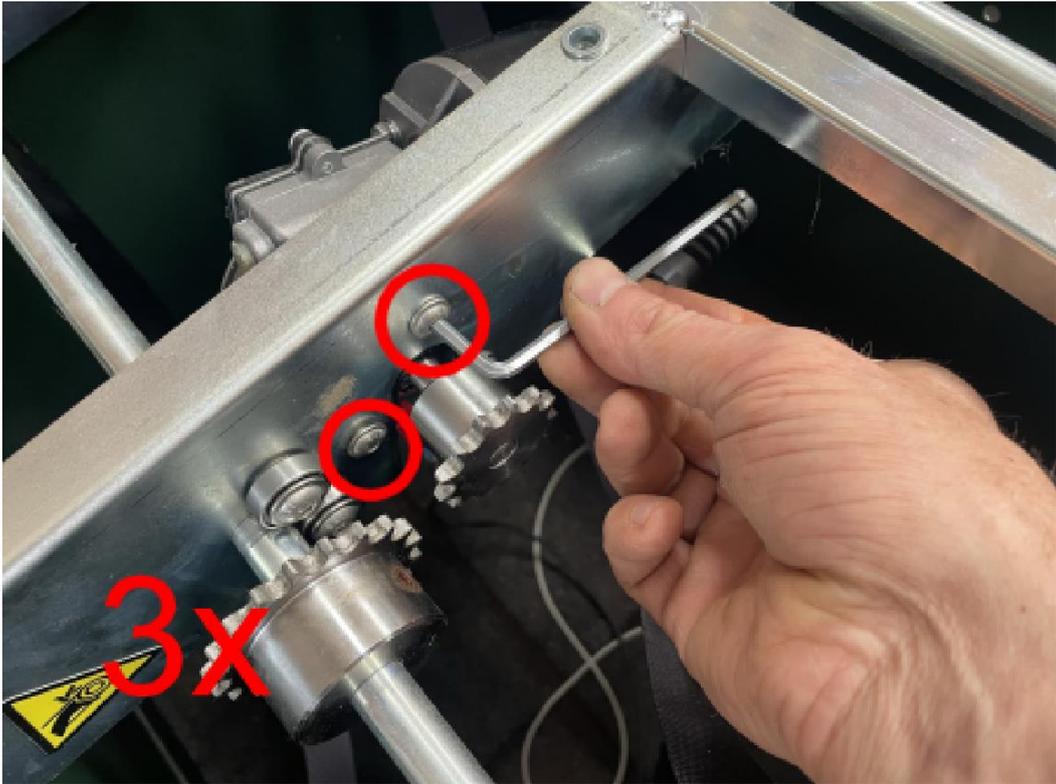
- [ ] Unscrew the last part of the strain relief that feeds the motor cable through the feed mechanism.



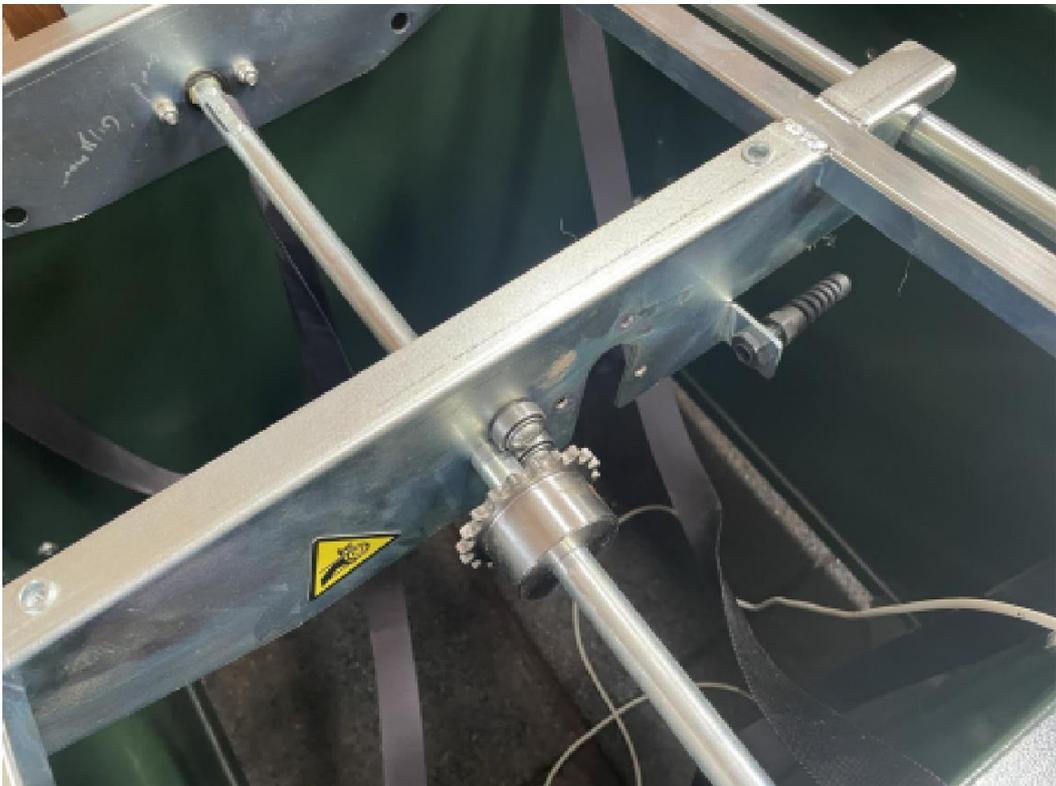
- [ ] Remove the motor cable from the strain relief. Place the loosened part of the strain relief back half a turn so that it is not forgotten later.



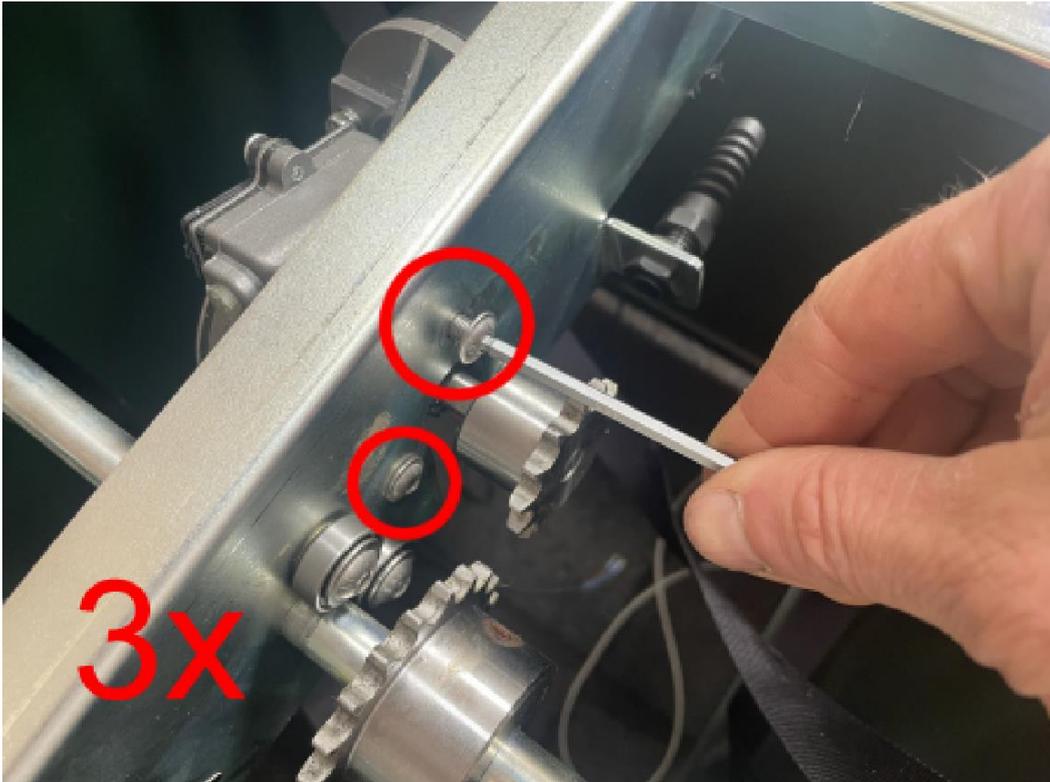
- [ ] Loosen the three bolts that secure the motor to the feed mechanism. Use a 4mm allen key for this.



- [ ] Remove the motor.



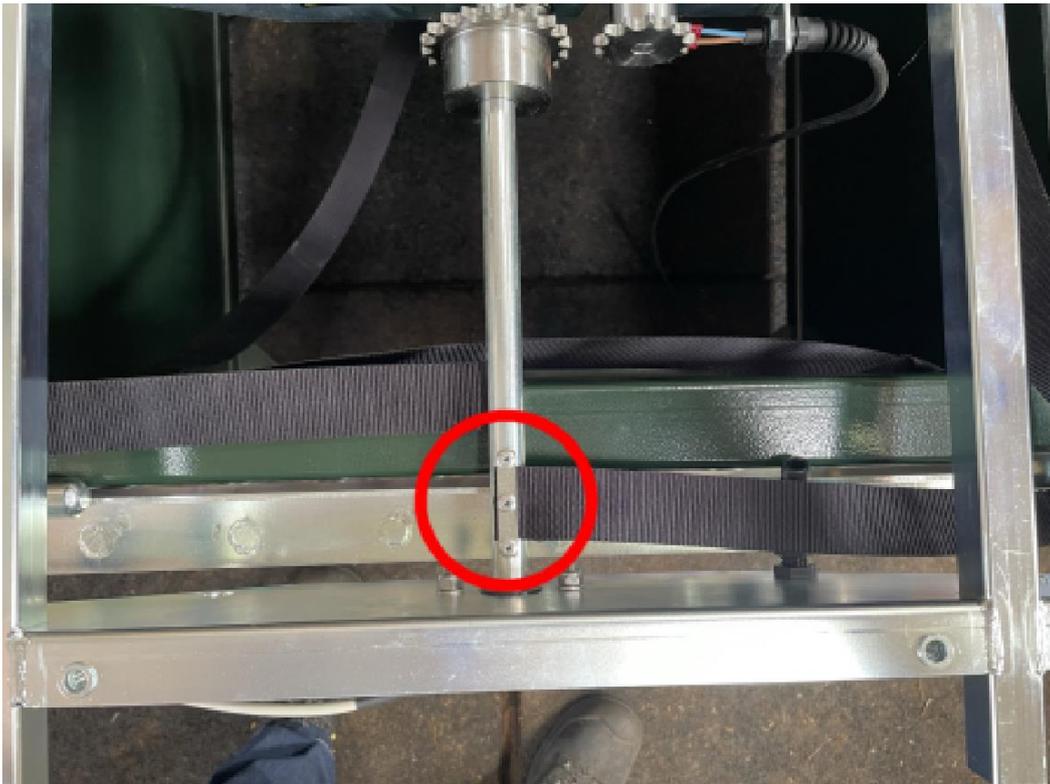
- [ ] Secure the new motor with the three M6x16 flange bolts. Tighten it firmly.



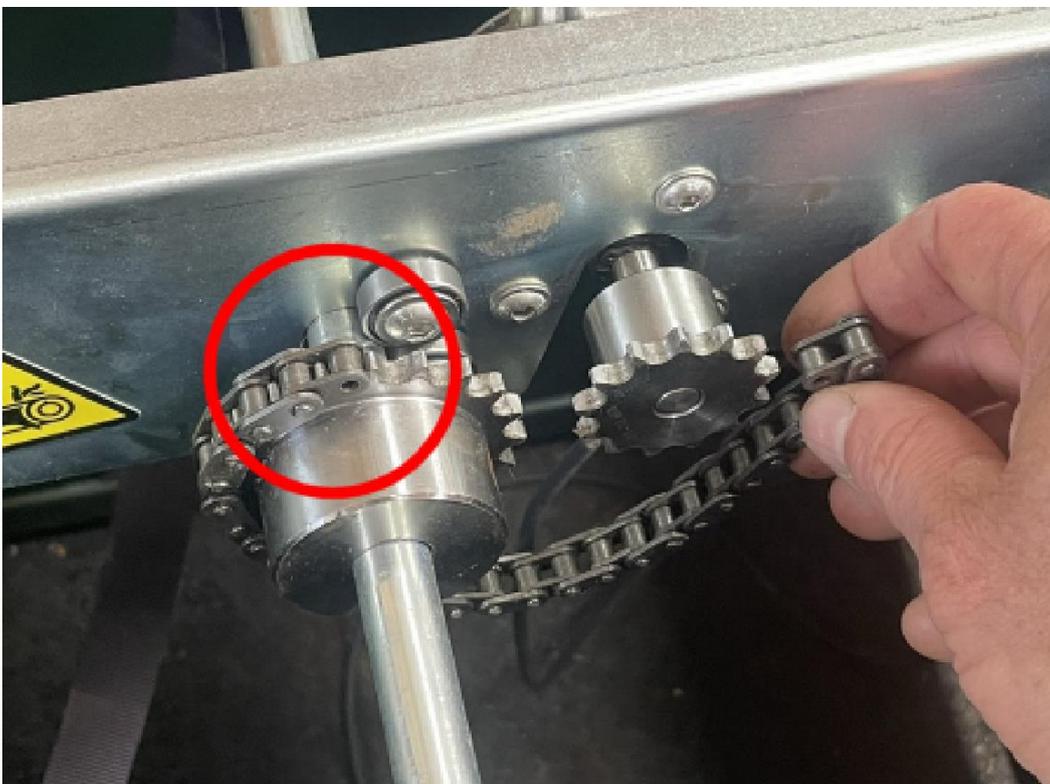
- [ ] For the cable of the motor through the strain relief which leads the cable through the feeding mechanism. Check whether a small piece of the sheath is still visible from the cable and tighten the strain relief fully by hand.



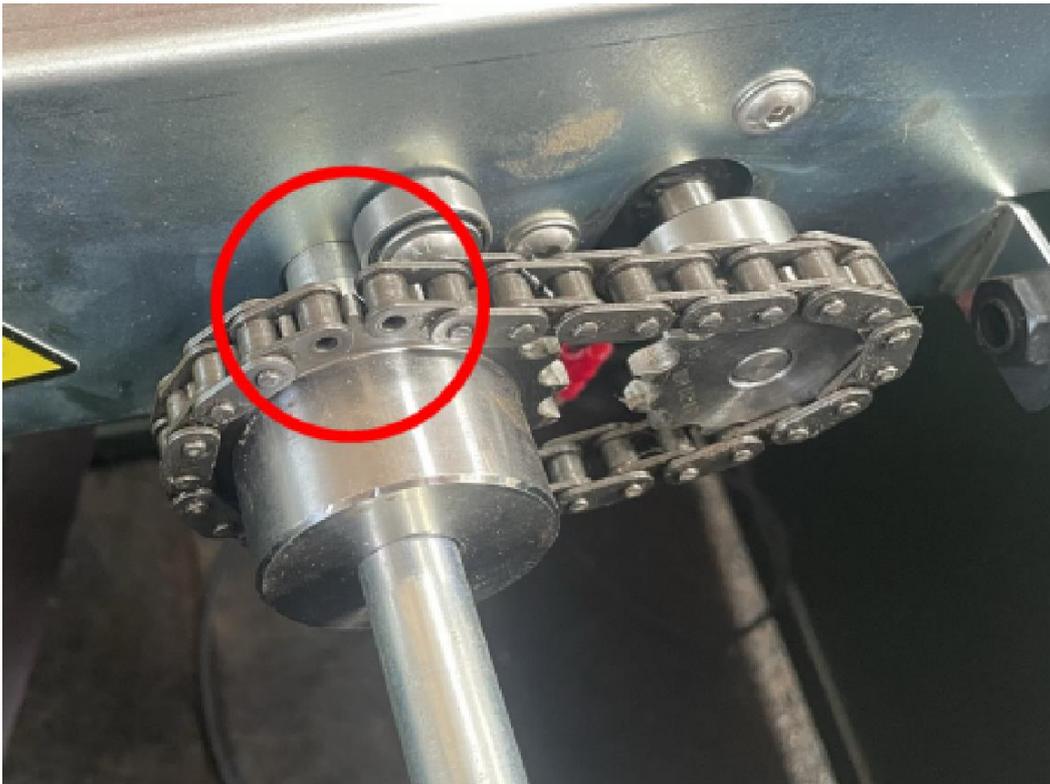
- [ ] Rotate the drive shaft so that the suspension straps are completely unwound. The suspension strap closest to the blue height sensor should be on top of the drive shaft.



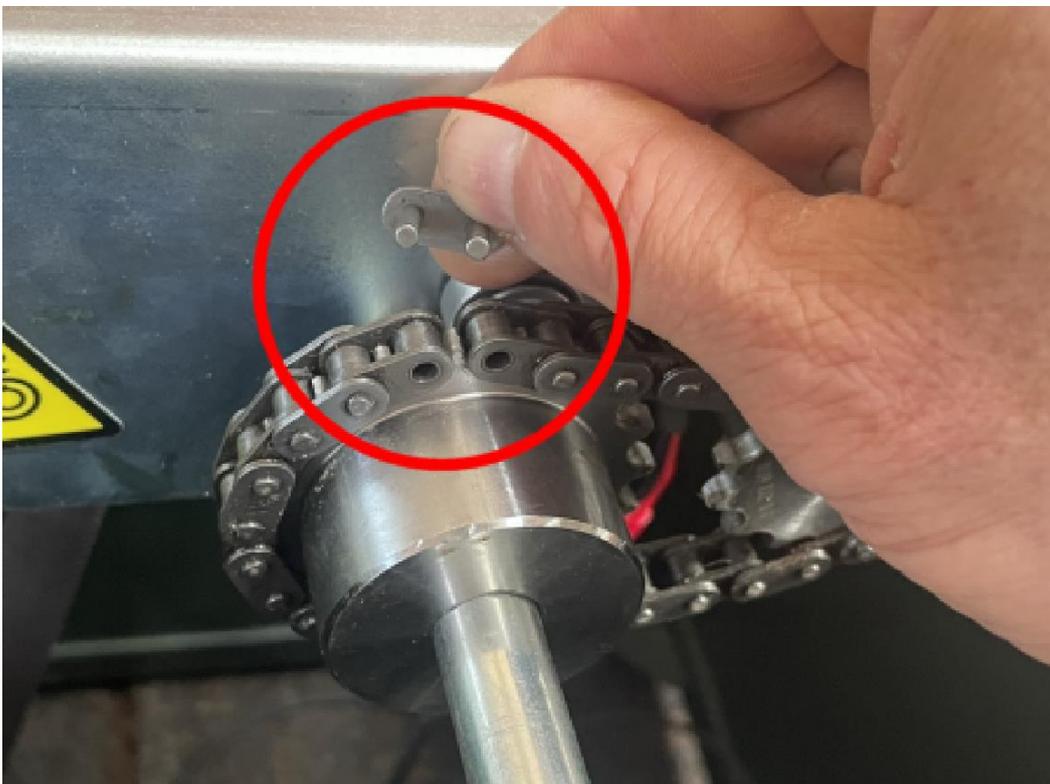
- [ ] Hold the drive shaft to prevent it from rotating when installing the chain. Place the chain with one link in the top tooth of the large sprocket on the drive shaft.



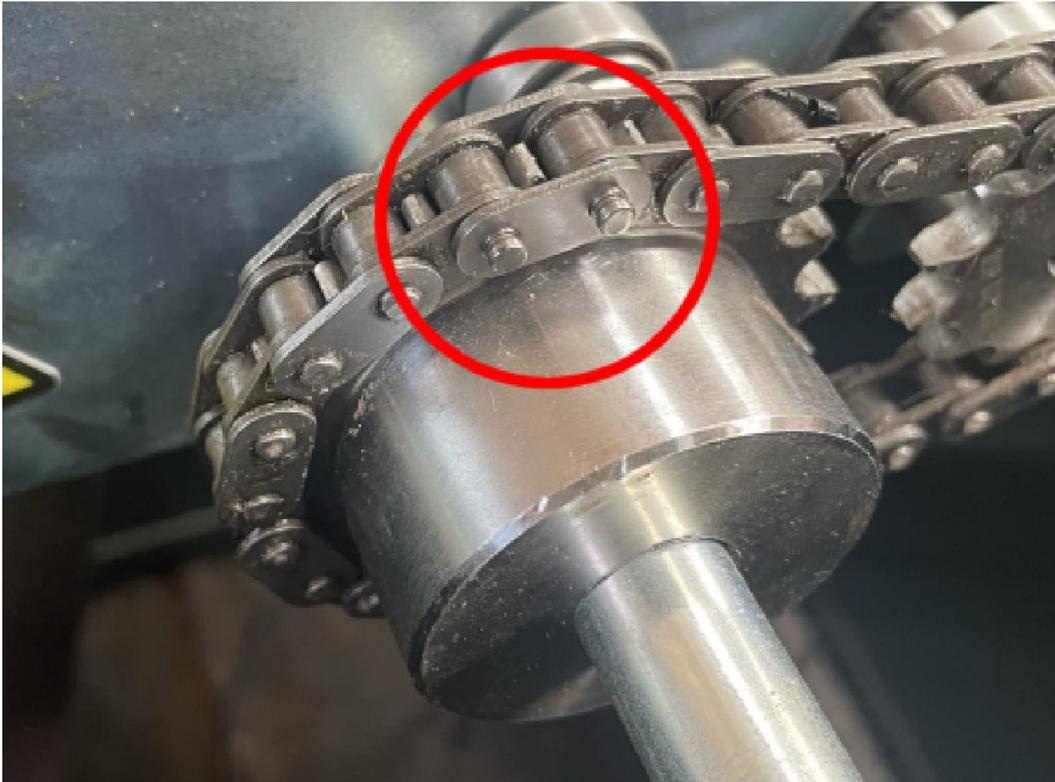
- [ ] Hold the drive shaft to prevent it from rotating when installing the chain. Pull the chain around the motor sprocket and place the end in the tooth next to the top tooth of the large sprocket.



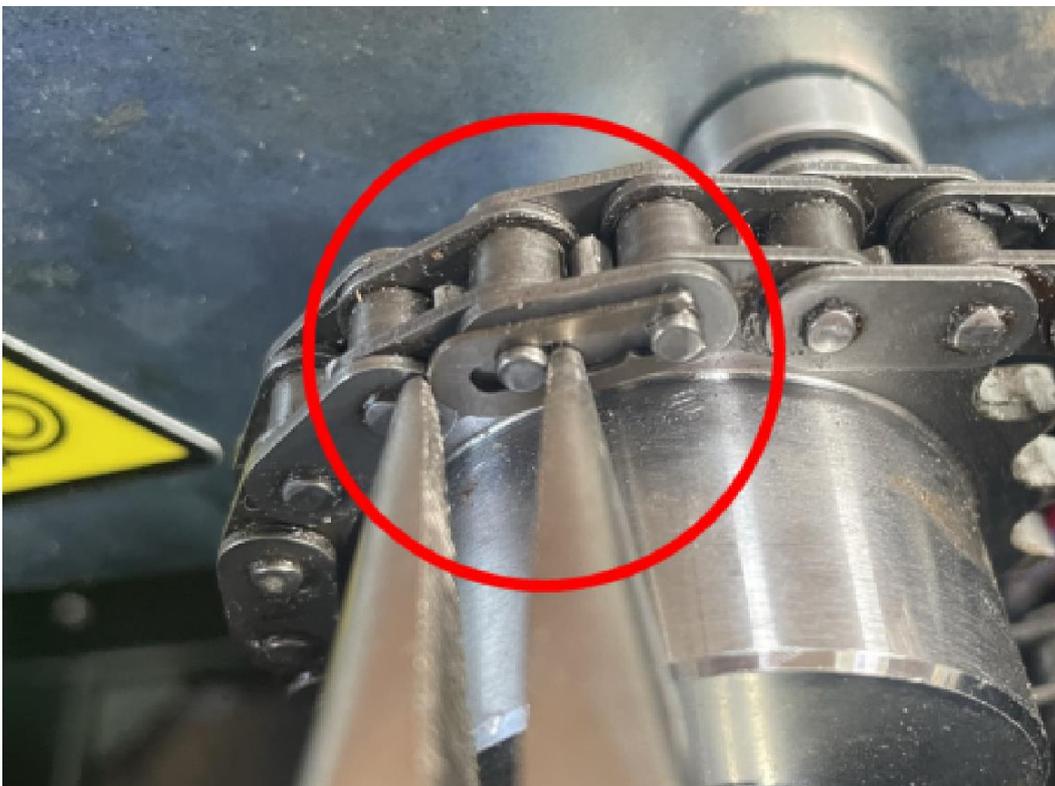
- [ ] Slide the coupling piece through both ends of the chain.



[ ] Place the retaining plate over the coupling part.



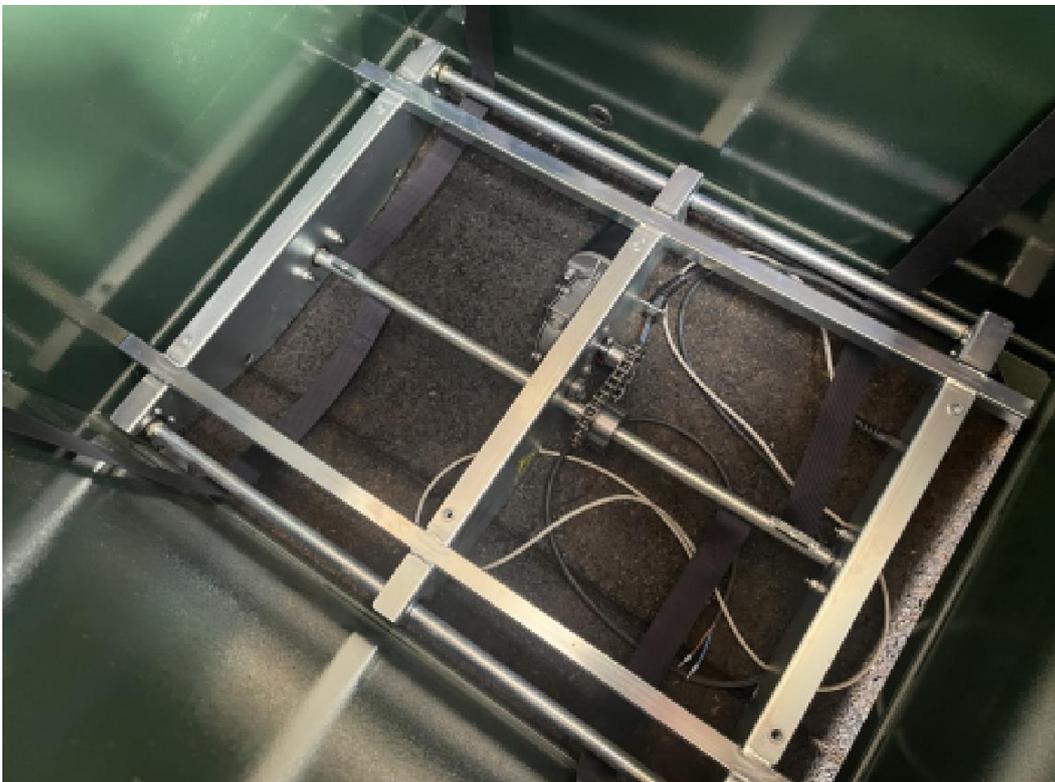
[ ] Place the retaining clip over the retaining plate.



- [ ] Press it with needle-nose pliers.



- [ ] Pick up the feeding mechanism and turn it 90 degrees counterclockwise and gently lower it into the FeedingMaster Pro on the floor. Check that no cables are trapped between the feeding mechanism and the ground. Check that the suspension straps are not twisted.



- [ ] Slide the motor cable under the rear wall of the FeedingMaster. Pick up the cable through the hole between the mounting brackets and gently pull it up.



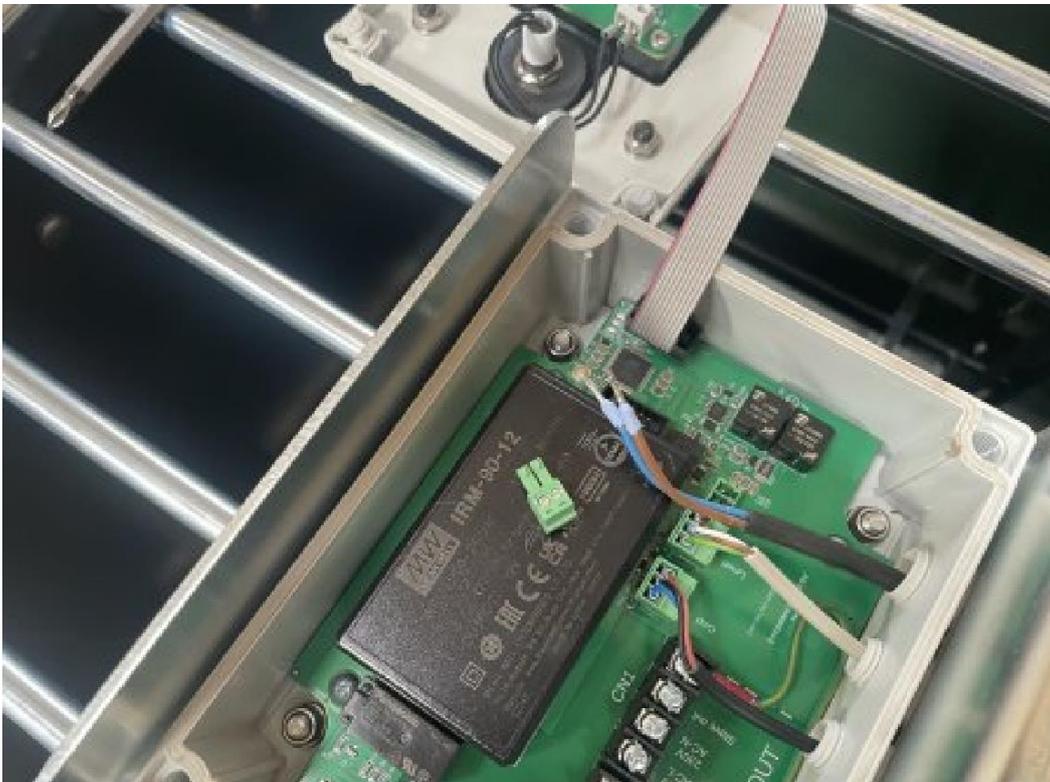
- [ ] Close the grid and place the controller on the grid.



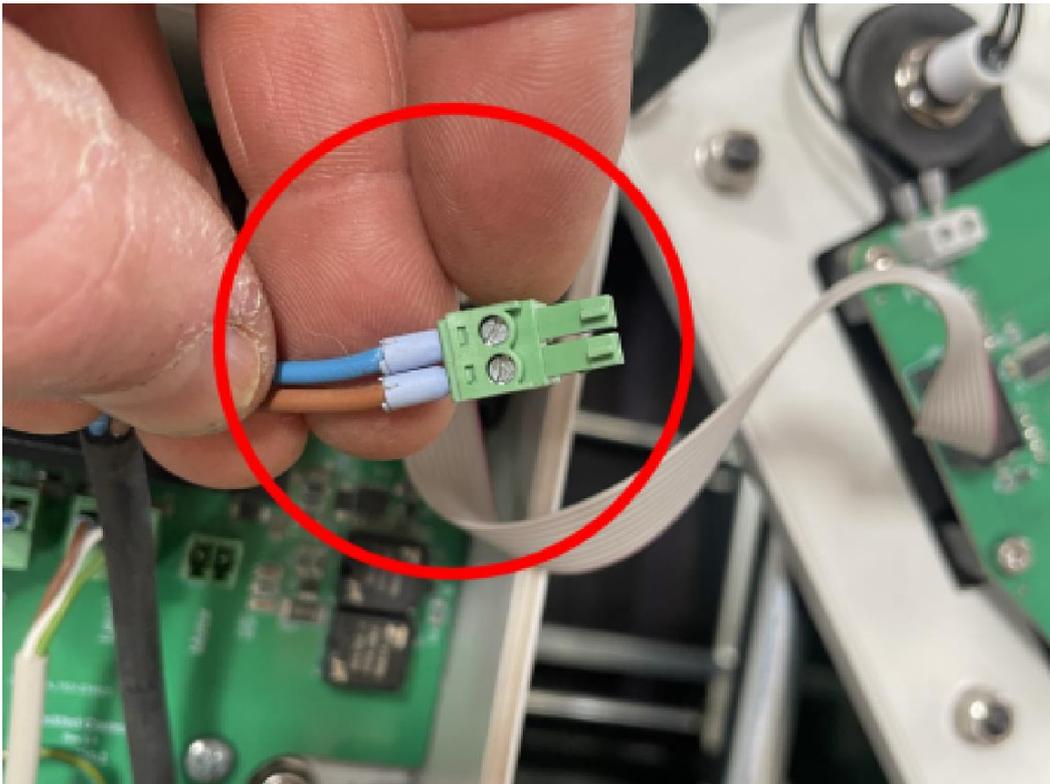
- [ ] Unscrew the nut in the front of the controller housing.



- [ ] Place the front of the controller housing next to the controller. Feed the motor cable through the strain relief into the controller housing. Do not tighten it yet.

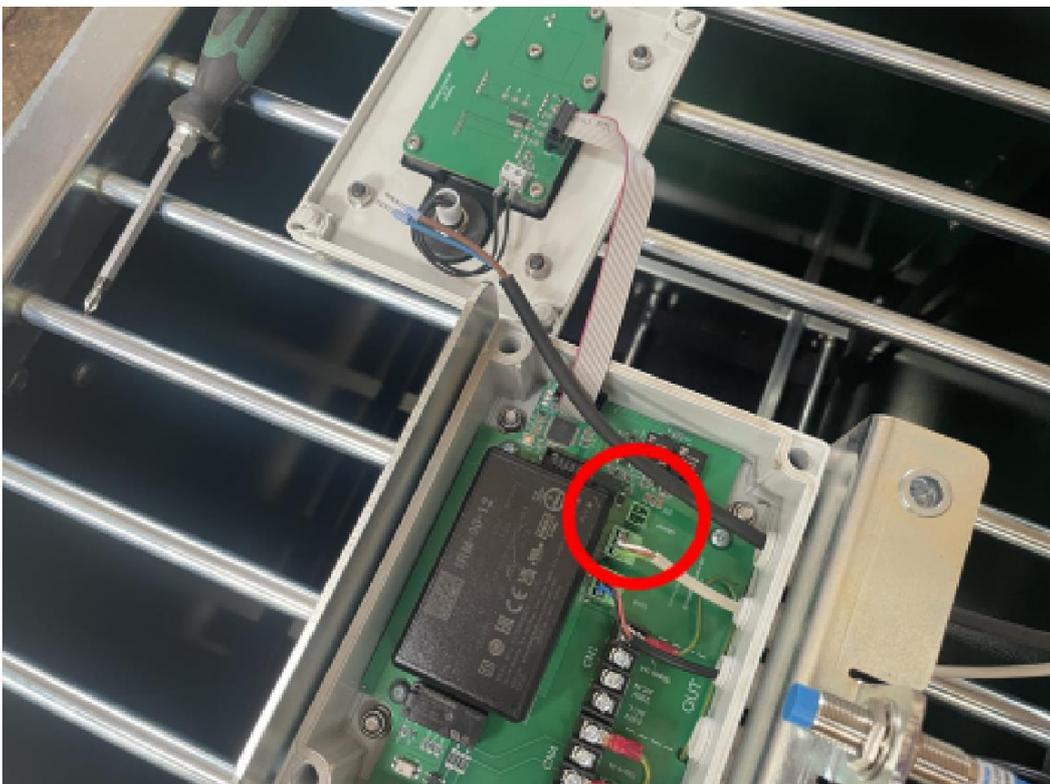


- [ ] Place the wires in the plug and screw it hand tight. Check whether the colors of the wires are connected correctly. Then tighten them 1/8 to 1/4 turn of the screwdriver.



**WARNING:** Check the wires again. If they are connected the wrong way round, the feed floor will move the wrong way around when the FeedingMaster Pro is switched on and the height sensor will be permanently damaged.

- [ ] Push the motor plug into the connector on the controller labeled "Motor".



- [ ] Gently pull the motor cable out of the strain relief until it is as short as possible but not yet under tension. Tighten the strain relief completely by hand.



- [ ] Place the front of the housing above the controller housing. Carefully press the connection cable of the display into the corner of the housing.



- [ ] Place the front of the housing on the controller housing. Check that there are no wires between the parts and that the front of the housing rests neatly on the back of the housing.



- [ ] Secure the front of the housing by finger-tightening the four nuts. Tighten the nuts 1/8 turn of the screwdriver.



**WARNING:** If the nuts are tightened too hard, the silicone gasket between the front and back of the housing will be crushed and the two parts will no longer be watertight. Moisture can then condense in the housing, causing the controller to malfunction.

[ ] Place the controller on the right mounting bracket.



[ ] Open the grid.



- [ ] Grab the controller and tilt it forward. Lower the controller between the mounting brackets. Hook the grid sensor into the recess under the grid closure bracket.



- [ ] Tilt the controller back. Secure the controller with two M8x60 countersunk bolts.



- [ ] Slowly pull the wires of the motor and the height sensor as far as possible into the FeedingMaster Pro.



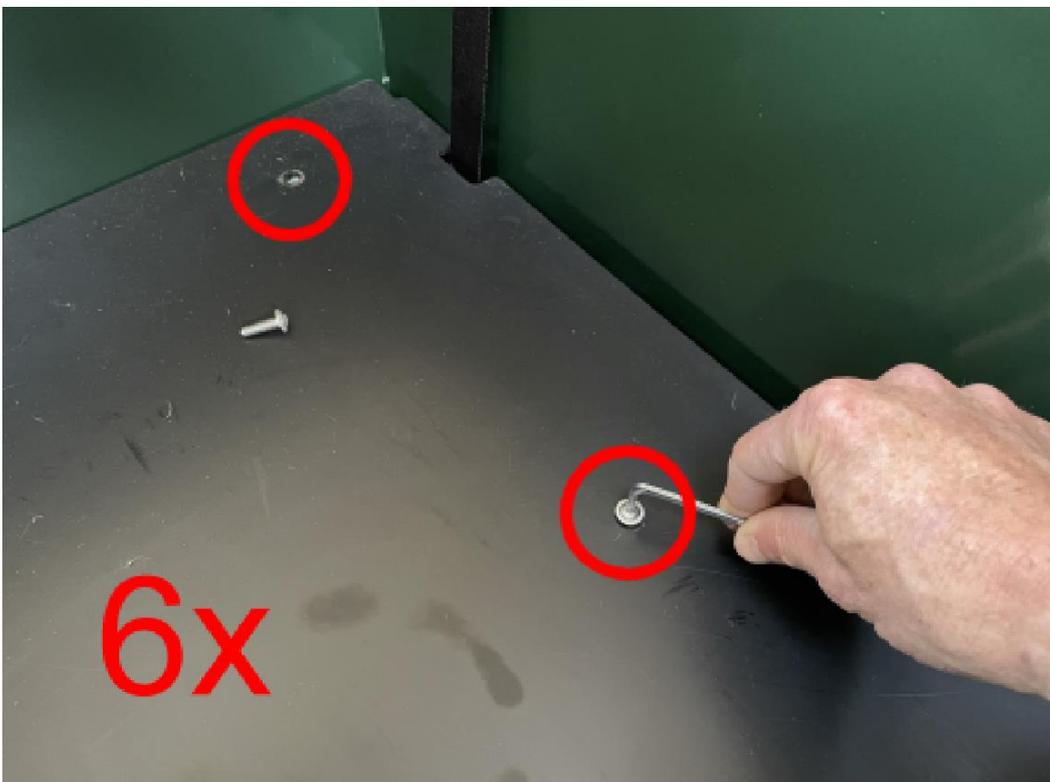
- [ ] Close the grid and switch on the mains voltage of the FeedingMaster Pro again.



- [ ] Open the grid. The feed floor rises to the filling position. Wait until the feed floor has stopped moving. Place the feed floor on the feeding mechanism. The dull side is facing up and the slots in the front for the lift bands are as close together as possible. At the rear there are recesses in the corners for the bolts that attach the mounting brackets to the FeedingMaster Pro.



- [ ] Secure the feed floor with six M6x20 flange bolts.



Your FeedingMaster Pro is now ready for use again.