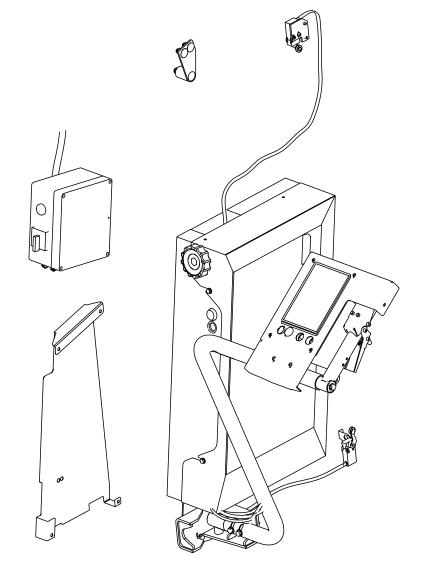
# **ILOGOSOL**

# **USER MANUAL**

ORIGINAL USER MANUAL.

SKU 0458-395-5441

REV:2



**EASY SET / PRO SET FOR ELECTRIC MOTOR** 



#### THANK YOU FOR CHOOSING A LOGOSOL MACHINE!

We are grateful for the confidence you have shown in us by purchasing this product, and we will do our utmost to live up to your expectations.

LOGOSOL has been manufacturing sawmills since 1989, and since then we have supplied around 50,000 machines to satisfied customers the world over.

We care about your safety and want to ensure that you achieve the best possible results. We therefore recommend that you take the time to carefully read this user manual before you begin using the machine.

We hope your new product brings you much satisfaction.

Bengt-Olov Byström

Bough-Olar Bystian

Founder,

Logosol in Härnösand, Sweden



Read through the user manual carefully and make sure you understand its contents before using the saw.



This user manual contains important safety instructions.



WARNING! Incorrect use can result in serious or fatal injuries to the operator or others.



LOGOSOL continuously develops its products.
For this reason, we must reserve the right to modify
the configuration and design of our products.
Document: Easy Set / Pro Set user manual
Manual, SKU: 0458-395-5441
Last revised: March 2024
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## SAFETY INSTRUCTIONS

#### **KEY TO SYMBOLS**



**WARNING!** This symbol means that you have to take particular care. It is always accompanied by information on the specific risk.



**ATTENTION.** A warning comes after this symbol. Pay particular attention where this symbol appears in the manual text.



For your own safety and that of others, do not use the machine or handle the cutting equipment without having read and understood the entire contents of this manual.



**WARNING!** Cutting tools: Incorrect use of the machine may lead to life-threatening injuries. The cutting equipment is extremely sharp and dangerous.



Always wear safety gloves (Class 1) when assembling and working with the machine or handling the cutting equipment. Risk of cutting injuries when handling cutting equipment and sharp plates. The cutting equipment and motor components may be hot after use.



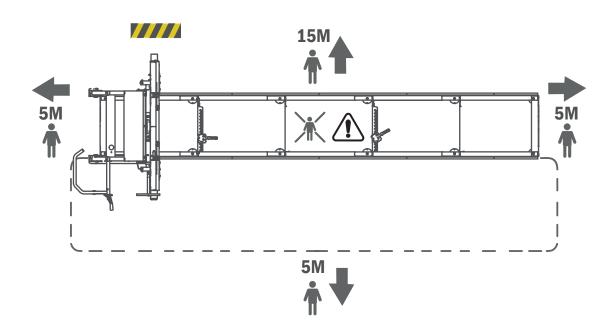
Always wear approved hearing protection when using the machine. Even brief exposure to high frequency noise can damage your hearing. Always wear tightly fitting goggles when working with the machine or handling the cutting equipment. It may also be necessary to wear a protective mask under certain circumstances. This applies especially if you are sawing dry wood or indoors.



Always wear approved chainsaw safety shoes with steel toecaps and non-slip soles when working with the machine or handling cutting equipment.



Always wear full-length chainsaw work trousers when working with the machine or handling the cutting equipment. Never wear loose clothing, scarves, necklaces, etc. that could get caught in the machine during operation. Tie up long hair before using the machine.



## **SAFETY INSTRUCTIONS**

- Read carefully through the entire manual before putting the machine into operation. Failure to observe these safety instructions may result in fatal injuries.
- Make sure everyone who uses the machine is well informed of the hazards and has read the manual. The manual must always be accessible when the machine is in use. This also applies if the machine is loaned out or sold.
- Persons under the age of 18 are not allowed to use the machine.
- **WARNING!** The machine operator must be fit, healthy and well rested. Schedule regular breaks. Do not work under the influence of alcohol, drugs or medicines that may cause drowsiness or inattentiveness.
- The machine should only be used where there is good visibility. Do not work in the dark or where visibility is poor.
- WARNING! Should any form of disturbance occur, stop work immediately, switch off the machine and investigate the problem. Always keep this in mind. Most accidents with dangerous machines occur when the operator tries to remedy a problem when the machine is running. A break in operations seldom shows in the finished product.



WARNING! Cutting tool: Always stand in the operator's position and keep both hands on operating levers when operating the machine. Never stand in front of the machine during operation.



**WARNING!** Rotating parts, entrapment hazard: The operator must always make sure no one is in the machine's hazard area during operation



**WARNING!** Never modify this machine such that it no longer conforms to the original configuration. When adding extra equipment, use only LOGOSOL manufactured products or those expressly approved by LOGOSOL for the purpose.



Make sure the machine is properly assembled in line with the enclosed assembly instructions and is maintained according to said instructions.



Never work alone. Always make sure there is another adult within earshot in case you need to call for help.



Avoid standing between the log pile and the machine. Always stand to the side of the log pile when handling the logs. Never stand anywhere there is a risk of a log falling on you.

### **MAINTENANCE**

Scheduled machine maintenance intended for performance by the operator is described in this section. Adhere strictly to the specified maintenance intervals, as these form the basis for good function of the sawmill.

#### **LUBRICATION POINTS**

Make sure the machine lift and feed chains, where fitted, are lubricated at regular intervals. Also check and lubricate the machine's other mechanical parts.

In order to keep your sawmill in good condition for many years and ensure problem-free ownership, it is important to lubricate the sawmill's components as described below. Lubrication must be carried out:

- Immediately after assembly and before starting to use the sawmill.
- Every 50 hours of operation, but at least once a year.

Saw head lifting chains and chain transmission

Lubricant: Superflo (item no.: 9999-000-5115). Lubricate the entire chain.

Refer to the manual for your band sawmill for other lubrication points.

#### **MAINTENANCE**

- Check the tension of the various chain linkages
- Check that the limit switches are intact and functioning
- Check that the machine's speed controller is functional and that the motor cannot be started with the lock engaged.
- Check the condition of the chain sprocket on the height adjustment mechanism.
- Check the condition of the bearings on the height adjustment mechanism

## **OPERATING INSTRUCTIONS**

For operating instructions, refer to the manual for your band sawmill.

## **BEFORE START-UP**

Check that the value shown in the display matches the position of the saw head and calibrate as necessary. Read more in the functions section.

## **END POSITION FEED / HEIGHT SETTING**

Remember to take care when approaching the electric supply / height setting's end position.

## STORING THE EQUIPMENT

Remove the control box from the machine between sawing sessions and store it indoors.

## **CONNECTING ELECTRICAL EQUIPMENT**

High-voltage electrical equipment may only be installed and connected by a qualified electrician! Otherwise there is a risk of fire or electric shock!

## **TECHNICAL SPECIFICATION**

Weight: 100 kg

Electrical system: 400 V

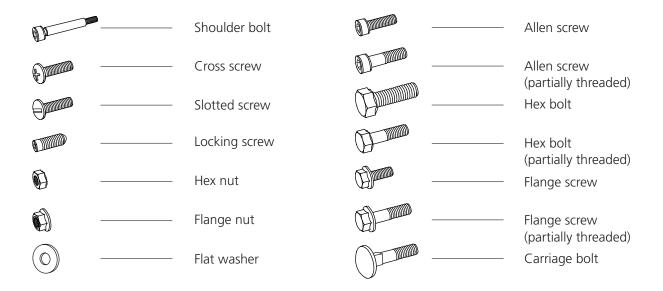
## **INFORMATION ON THE COMPUTER SETWORKS**

This manual includes a general description of the computer setworks in the *First start-up* section. Refer to separate documentation for more detailed information about the computer setworks: *"Pro Set – Computer Setworks"*.

#### **∐ LOGOSOL**

## **NUTS AND BOLTS**

Definition of the fasteners on following pages.



#### **ADDITIONAL SYMBOLS**

The following symbols are used as supplements to the symbols above to describe the design of the parts.







Lock



#### **DIMENSIONS/LENGTH**

Fastener dimensions are shown as diameters (M) ISO 68-1. For bolts, this is followed by a measurement showing how much of the bolt is screwed into the material.

(Length) (Diameter) M8 20 Χ

## **DELIVERY CHECKS**

Before beginning assembly, make sure all the components specified in this manual are included in the packages and that they are unharmed.



#### **BOX-01-00999**



1 x - 03-03595



4 x - M8x12



1 x - 01-00839



4 x - M8







1 x - 01-00894



01-00999-DIV

5 x - 6605-001-0320



5 x - 6605-001-0090



## BOX-01-00821



1 x - 03-03481



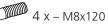
1 x - 02-00548



1 x - 03-03578

#### 01-00821-SKP







2 x - M5x16



4 x - M6x16



4 x - M6



4 x - M8

#### **∐ LOGOSOL**



## **BOX-01-00865**



1 x - 03-03538



1 x - 03-03539



2 x - 03-03572



1 x - 03-03468

#### 01-00865-SKP



8 x - M6x10



6 x – M6



4 x - M6x12



4 x - 04-00708



#### BOX-01-00832



1 x - 02-00541



1 x - 03-03505



1 x - 9037-012-0005



1 x - 02-00542



1 x - 02-00543



1 x - 03-03566



#### 01-00832-SKP



1 x – M10x100



1 x - M10



5 x - M8



5 x – M8x70



1 x - M8x50



1 x - M8x65



## BOX-01-00919



1 x - 03-03556



2 x - 04-00693



1 x - 03-03557



1 x - 03-03558



1 x - 01-00863

#### 01-00919-SKP



2 x - M5x16



2 x - M5x50



2 x – M5



1 x - M6x50



1 x - M6



## BOX-01-00897



1 x - 03-03601



1 x - 03-03598

#### 01-00897-SKP



4 x - M4x20



2 x - M6x12



4 x - M4





2 x - M5x16

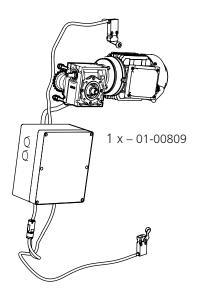


2 x - M5

## **∐ LOGOSOL**



#### **BOX-01-00809**





1 x - 03-03423



1 x - 04-00668



1 x - 03-02282



## BOX-01-00900



1 x - 03-03507



1 x - 01-00899

#### 01-00900-SKP



2 x - M5x45



2 x - M5





1 x - M6



4 x - M6x30



4 x - M4x16



1 x - M6x8



4 x - M4x35





Let's get started!

We recommend laying out all fasteners on a tray or similar to make the task easier.

## PREPARATORY WORK FOR A RETROFIT

Some disassembly may be necessary before Easy Set / Pro Set installation can begin.



Lower the saw head to its bottom position.

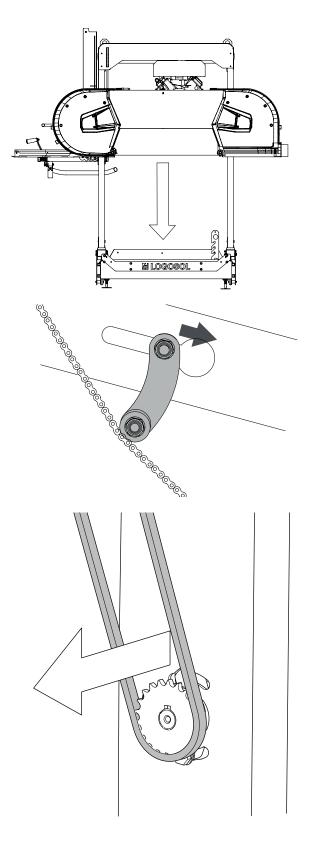


Undo the chain tensioner screw and move the tensioner away from the chain to reduce chain tension.

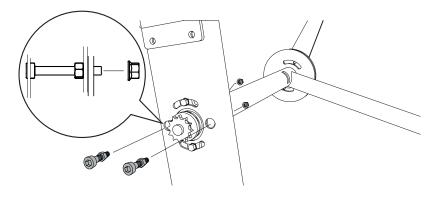


Lift the chain away from the lower sprocket.

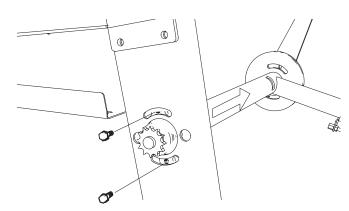
**NB!** Make sure the saw head is in the bottom position and that the chain is not tensioned.





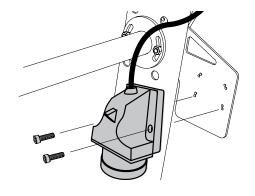








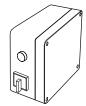
Remove the 400V connector

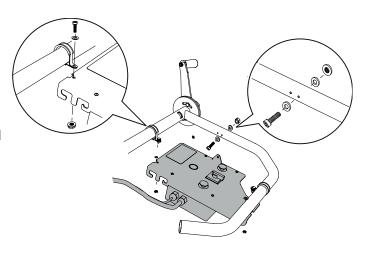




In the case of a retrofit, replace the lower saw box. The box is connected to the saw motor and is removed from the motor side. A qualified electrician is required to perform this step. A circuit diagram for this is included with the new saw box.

See saw box: 01-00839





#### **∐ LOGOSOL**



## 01-00999

The following steps concern Easy Set retrofit installations. Installation involves heavy lifting that may require two people.



**! WARNING!** Heavy! Risk of injury.



Always be two people when lifting heavy objects.



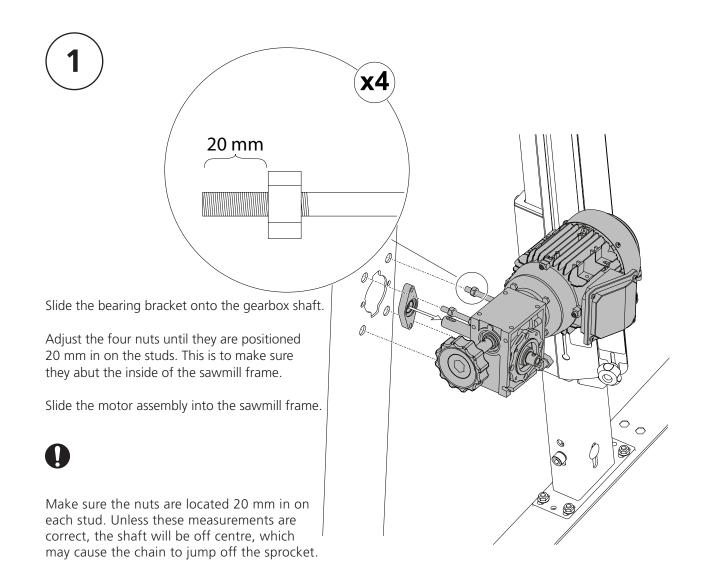
**WARNING!** Risk of crush injuries.

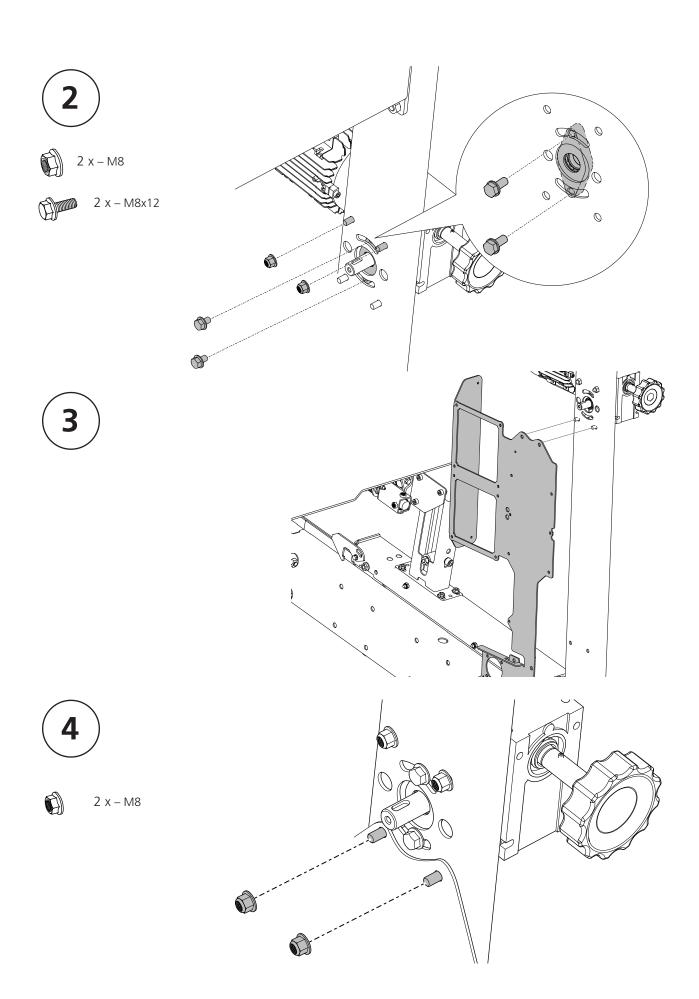


Wear safety gloves and take care when setting the components down.

#### **ADDITIONAL EQUIPMENT:**

There are accessories for this machine that may affect the assembly sequence described in this manual. Read through the assembly instructions in the various manuals before starting work to gain an overview of the different assemblies.

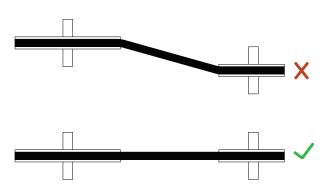


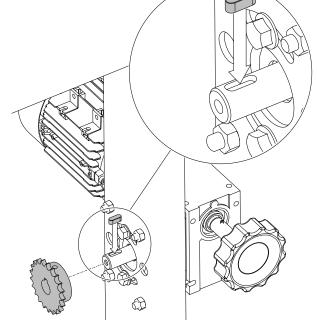




Fit the key on the gearbox shaft, then slide the sprocket onto the shaft.

Adjust sprocket position to align with the drivetrain's top sprocket.

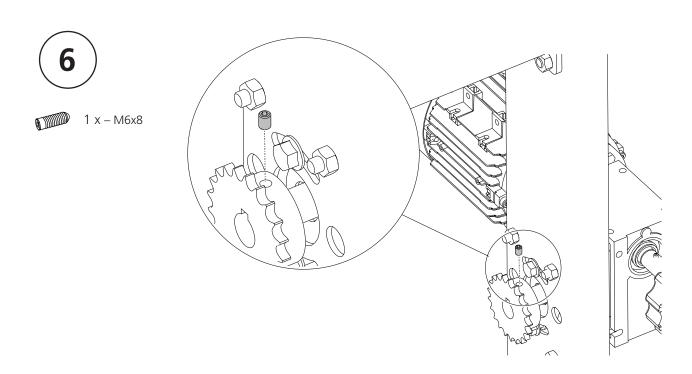






#### **WARNING!**

If the chain is not properly aligned, it may jump off the sprockets. The saw head will then fall with full force and may cause injury or material damage.





There is a chamfer on the position sensor shaft for the setscrew to lock against when it is fitted to the gearbox.

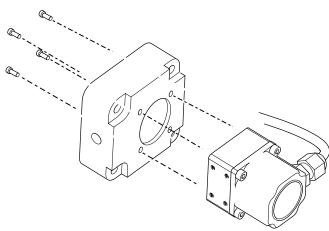
Turn the gearbox knob to align the shaft hole with the position sensor hole.

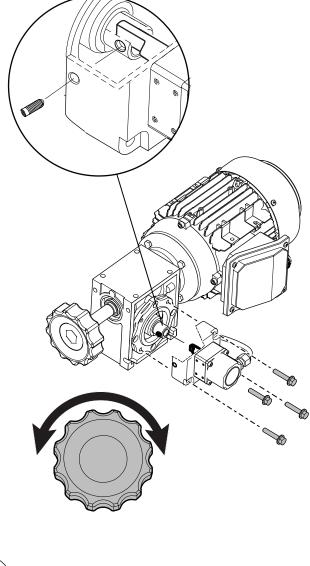


1 x - M6x8



4 x - M6x30





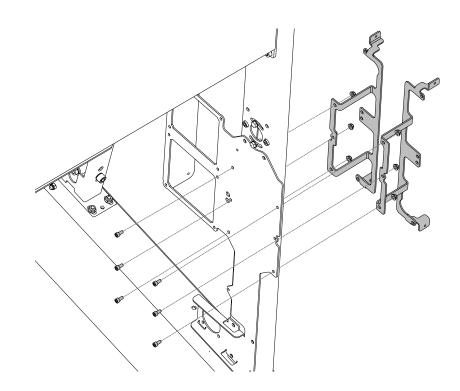




6 x - M6x10



6 x – M6



#### **∐ LOGOSOL**

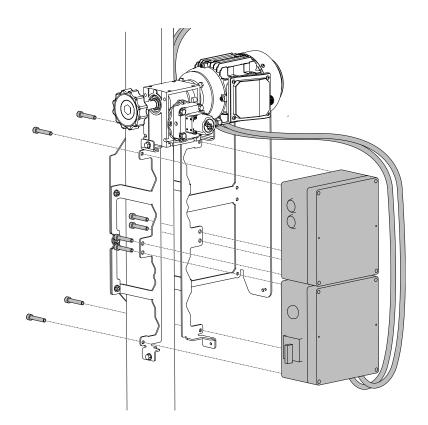


#### WARNING!

High-voltage electrical equipment may only be installed and connected by a qualified electrician! Otherwise there is a risk of fire or electric shock!

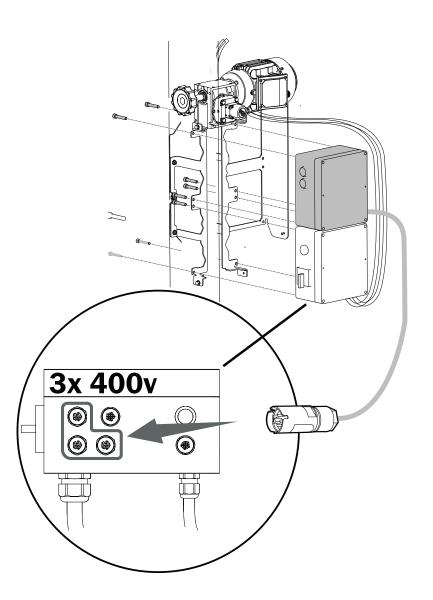
In the case of a retrofit, replace the lower saw box. The box is connected to the saw motor. A qualified electrician is required to perform this step. A circuit diagram for this step is included with the new saw box.

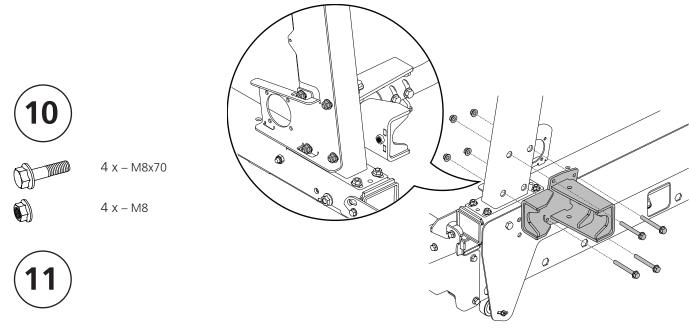
Install the two electronics boxes onto the electronics box and cable holders. Secure using eight bolts.





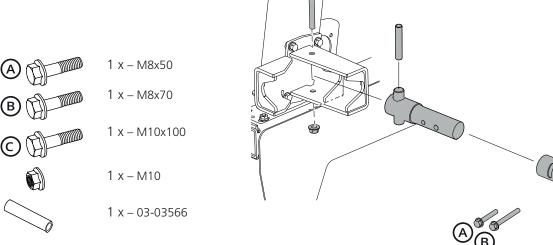
8 x - M6x10

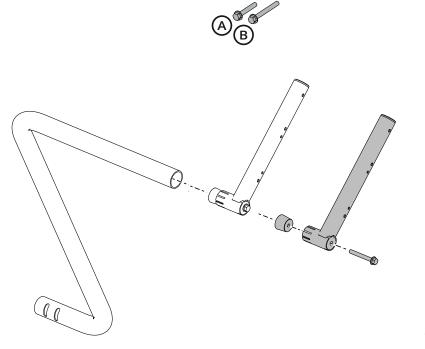




Place the arm in the bracket and lock it using a nut and bolt. A lock bolt (B) is included for securing the arm in the bracket. The arm can be locked in a position 90° from the machine, bolt (B). Another option is to turn the arm alongside the machine and lock it in the designated hole.

Arm height is steplessly adjustable. Refer to the *Arm Height Adjustment* chapter.



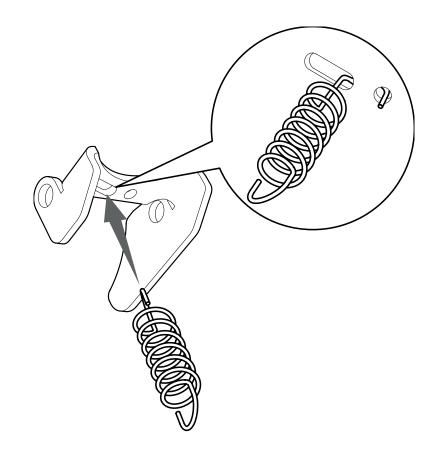






1 x - M8x65







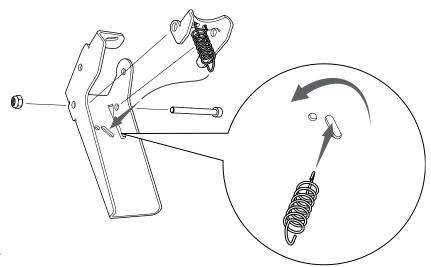


1 x - M6x50

1 x - M6



Do not over-tighten the bolts. This may prevent free movement of the handle later.



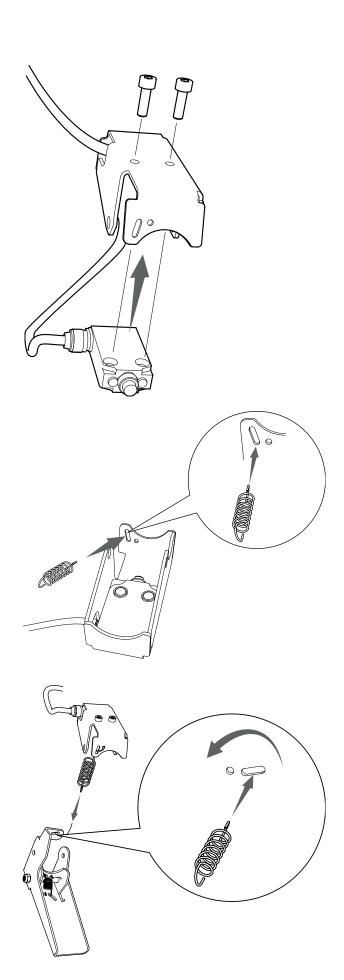




2 x - M5x16











1 x - M6x50



1 x - M5x50





1 x - M6

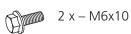


1 x - M5



Do not over-tighten the bottom M5 screw. This may prevent free movement of the handle later.





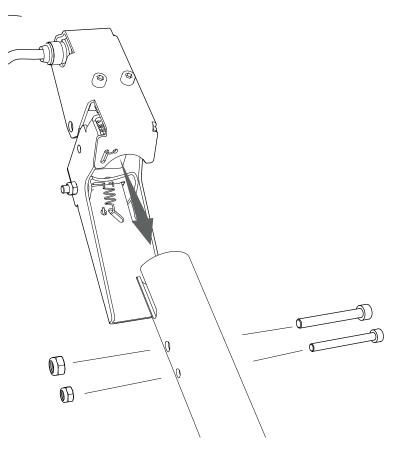


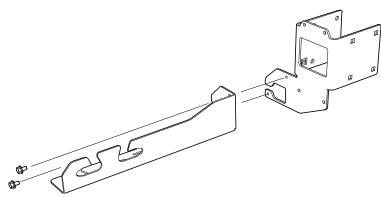


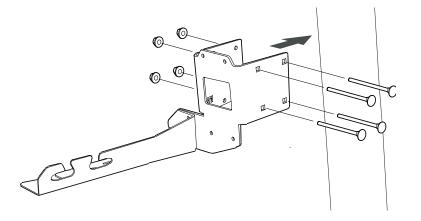
4 x - M8x120

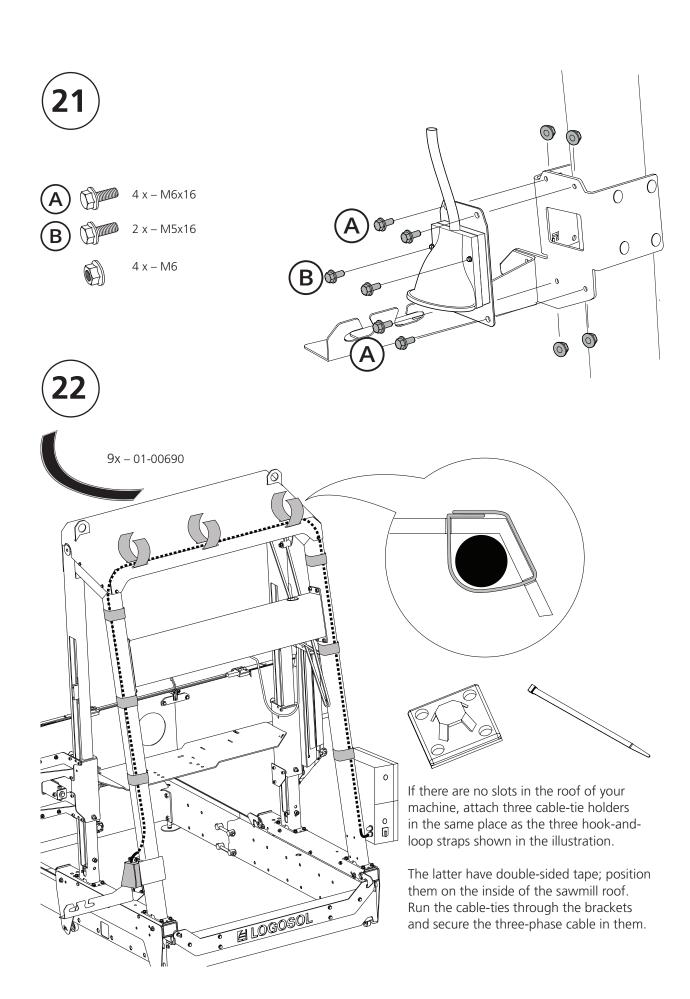


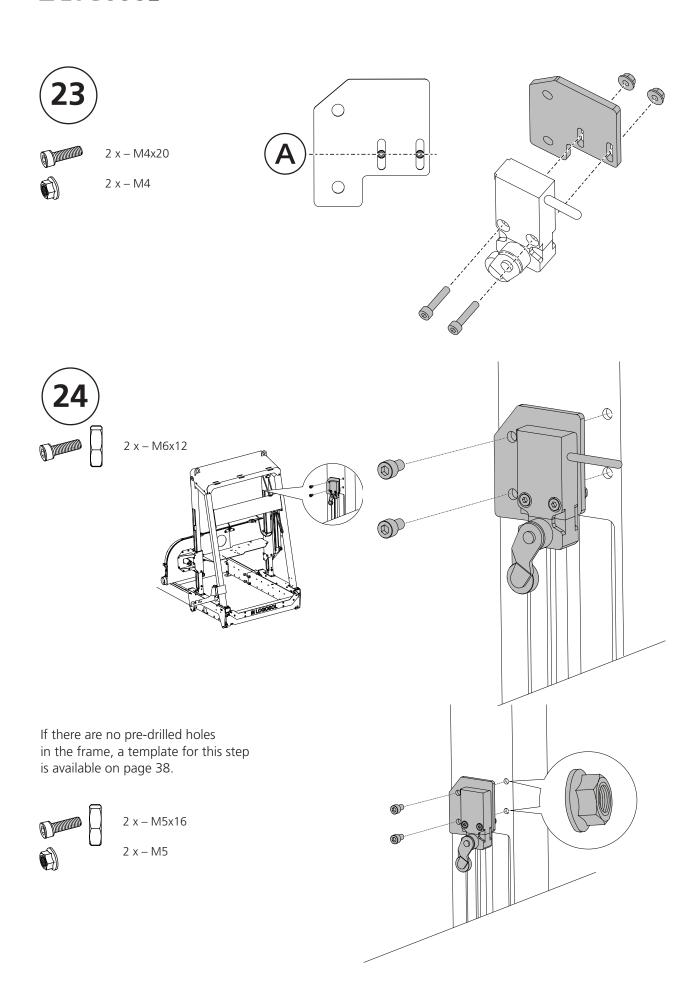
4 x - M8



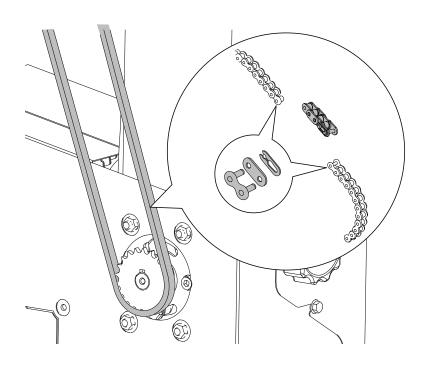












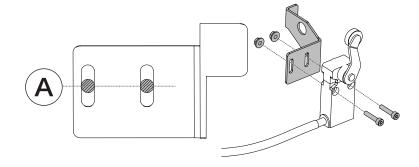




2 x - M4x20

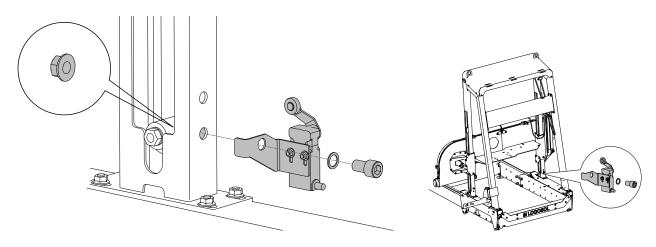


2 x - M4





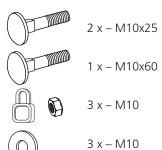
Raise the saw head a little to facilitate installation of the lower limit switch.

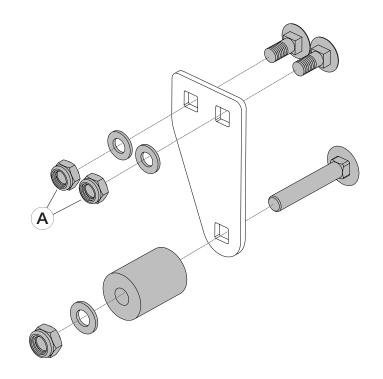


#### **∐ LOGOSOL**



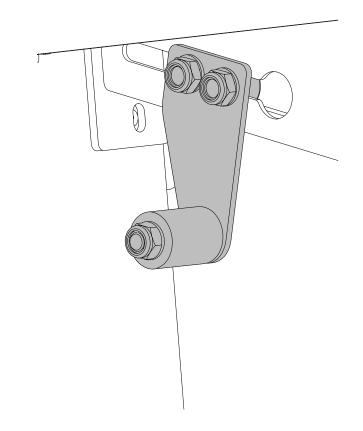
This step need only be performed in case of a retrofit. If the machine you are installing on has this chain tensioner, ignore this assembly step.





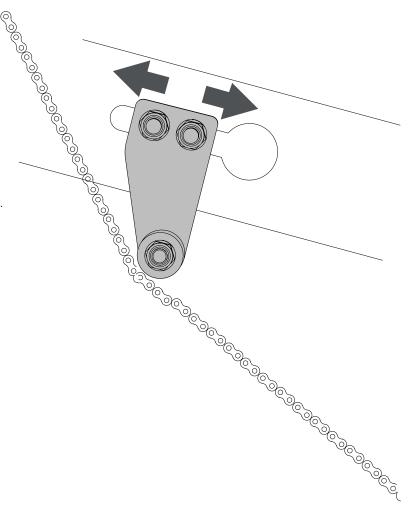


Slide the chain tensioner into the upper frame of the sawmill. Do not fully tighten the nuts until the chain is installed.





The height adjustment mechanism's chain must be tensioned to ensure good lift mechanism function. Begin by undoing the tensioner retaining bolts. Then slide the tensioner against the chain until the chain is lightly tensioned. Then tighten the screw joint.





## **PRO SET INSTALLATION**

The following steps concern the Pro Set computer setworks. Installation involves heavy lifting that may require two people.



WARNING! Heavy! Risk of injury.



Always be two people when lifting heavy objects.



**WARNING!** Risk of crush injuries.



Wear safety gloves and take care when setting the components down.

#### **ADDITIONAL EQUIPMENT:**

There are accessories for this machine that may affect the assembly sequence described in this manual. Read through the assembly instructions in the various manuals before starting work to gain an overview of the different assemblies.





4 x - M5x35





2 x - M5x45



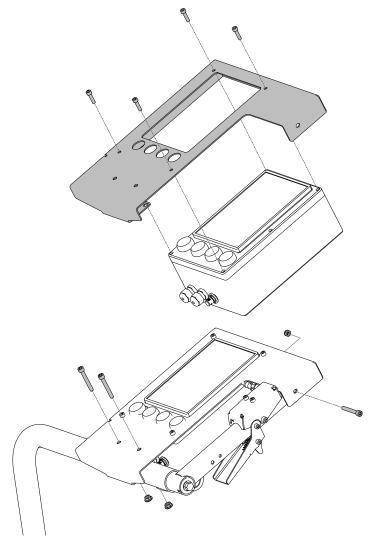
1 x - M6x50

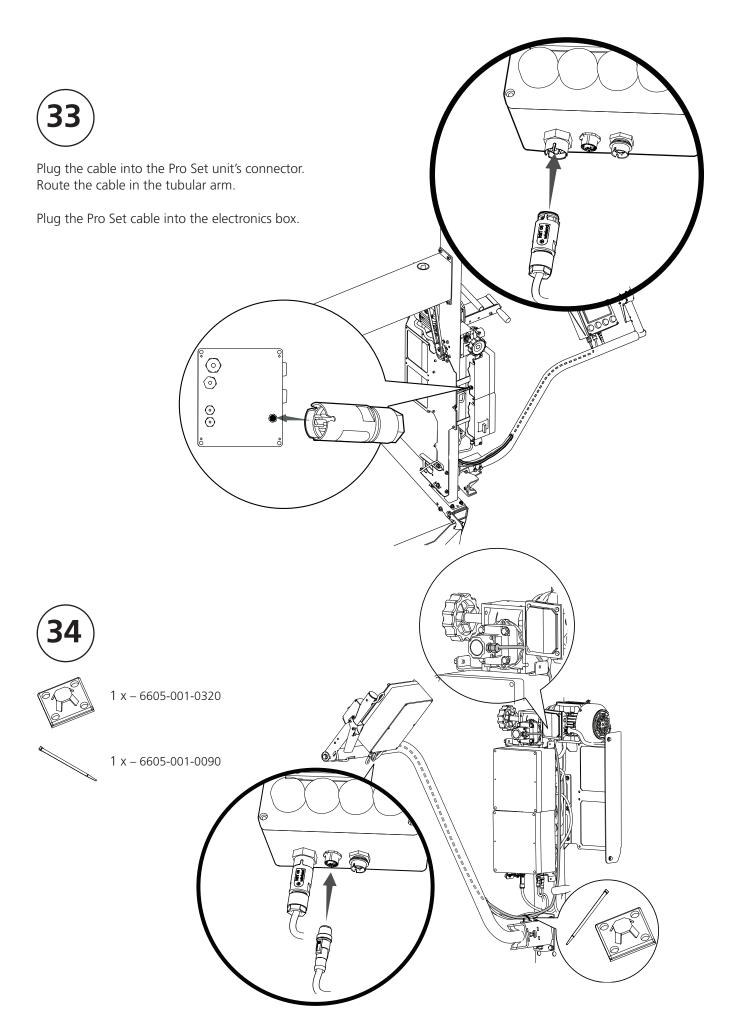


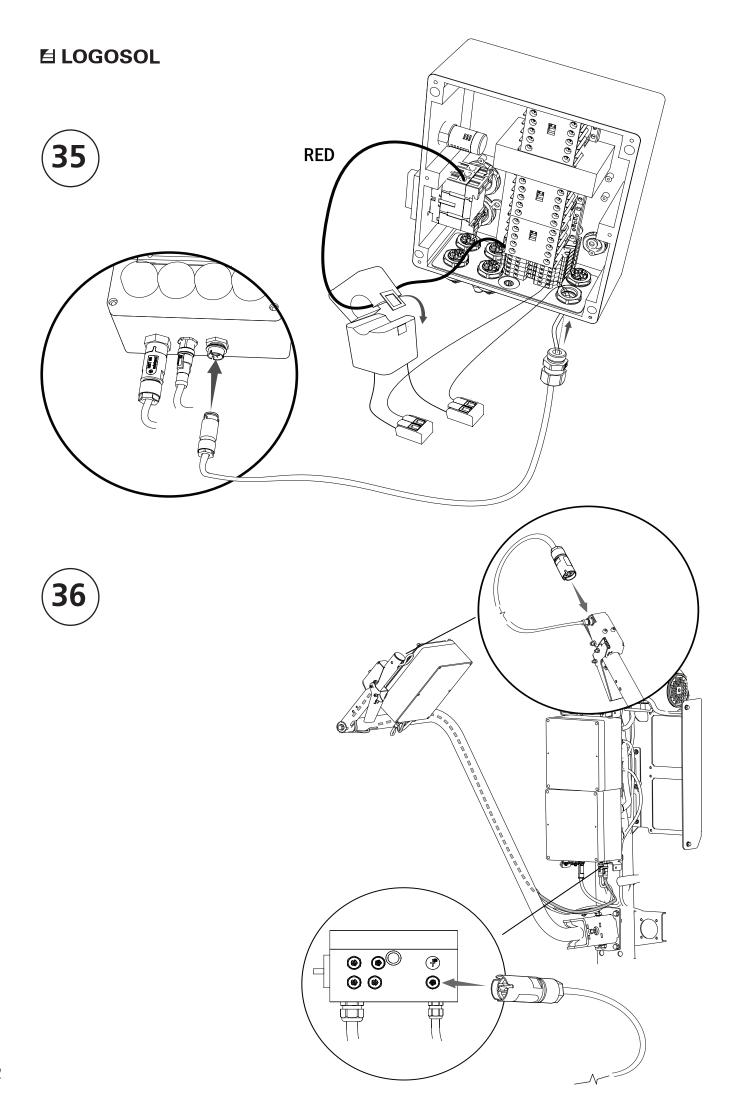
2 x - M5

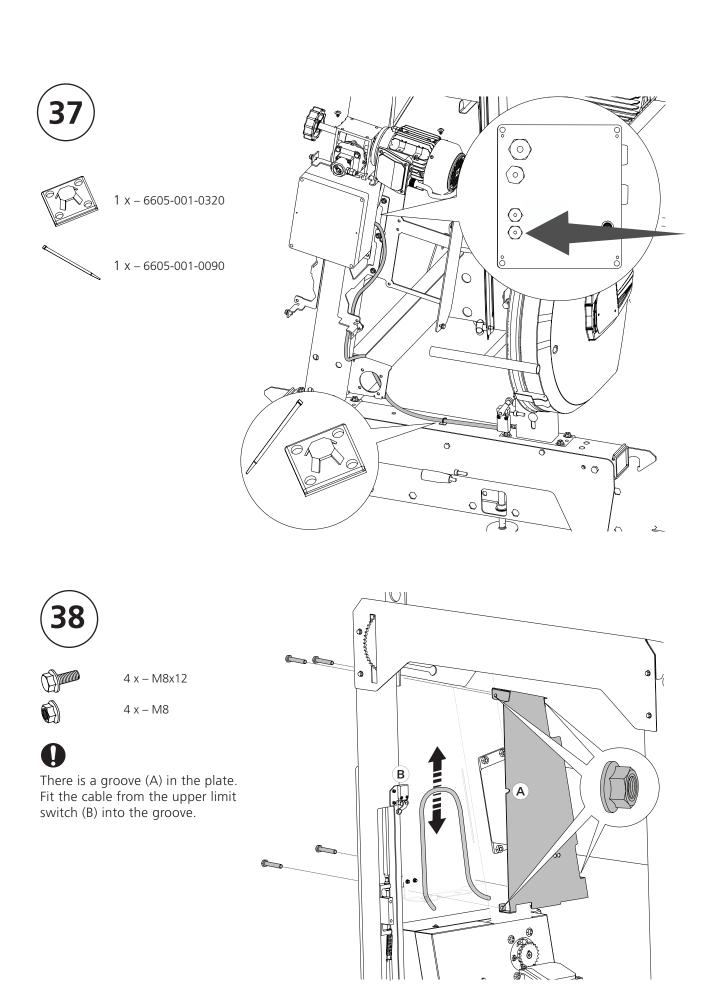


1 x – M6









#### **LOGOSOL**



Pull the main switch handle out from the electrical cabinet (A).

Mount the electronics cabinet rear cover onto the mounting plate. Secure using two bolts (B).

Push the main switch handle back in place.



2 x - M6x12

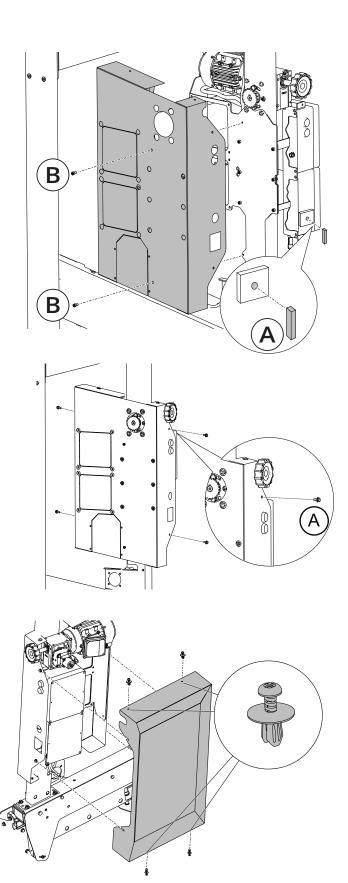


Thread the four bolts (A) a few turns into the rear cover of the electronics cabinet and into the electronics box and cable holders.



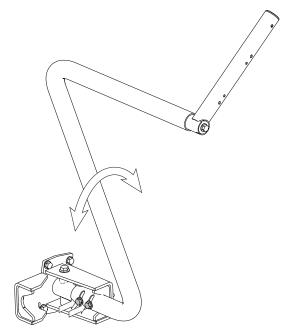
4 x - M6x12

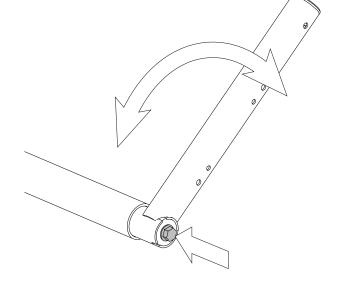




Slide the electronics cabinet's front cover under the four bolts installed under item 39. Tighten the four bolts. Press in the four quarter-turn fasteners and tighten the bolts.

## **ARM HEIGHT ADJUSTMENT**





Loosen the lower tubular arm bolts. Adjust the arm to the desired height. Then tighten the bolts.

Loosen the upper tubular arm bolts. Adjust the arm to the desired height. Then tighten the bolts.

## **TROUBLESHOOTING GUIDE**

PROBLEM/SYMPTOM	PROBABLE CAUSE	ACTIONS
The computer setworks do not start	<ul> <li>Loose contacts</li> <li>Moisture in the computer setworks.</li> <li>Residual current device (RCD) tripped</li> <li>Fuses blown in the saw box.</li> </ul>	Try removing the connectors and then reinstalling them.  Disconnect the power and take the box inside, let it dry and blow it out with compressed air  If an RCD trips, contact an electrician for troubleshooting.  Replace the fuses in the saw box.
Abnormal noises from the mechanism	<ul> <li>Poor lift chain alignment</li> <li>Insufficient chain tension</li> <li>Gearbox wear</li> <li>Worn bearings</li> <li>Over-tensioned chain</li> </ul>	Check alignment between the lower and upper lift sprockets Check chain tension. If bearing or gearbox wear is suspected, check for visual wear on the saw head bearings at the secondary shaft and at the gearbox mounting. Run the functions and listen for abnormal noise and feel if heat is building up. If a worn part is discovered, replace it.
The machine runs in the wrong direction.	Phase reversal in connector	• Switch phases in the machine's 400v socket.
The computer setworks is working, but the height adjustment motor does not run.	The motor is running hot; motor protection has stripped.	Wait until the motor has cooled and resume operation; the motor must not run hot. If the problem recurs, contact Logosol

## **FIRST START-UP**

#### **Calibration**

The saw blade height position value must be calibrated at the first start-up. The computer setworks will show a value in the display at start-up. Measure the distance between the saw blade, on a downward-set tooth and a log bed.

Hold down the calibration button until the value shown in the display disappears, then enter the measured value. Conclude the operation by pressing the enter button.

Check the calibration by moving the saw head 200 mm and measuring to confirm actual saw head movement is 200 mm. If the measurements do not correspond, repeat with a 500 mm movement. Check by measuring from the saw blade to the log bed.

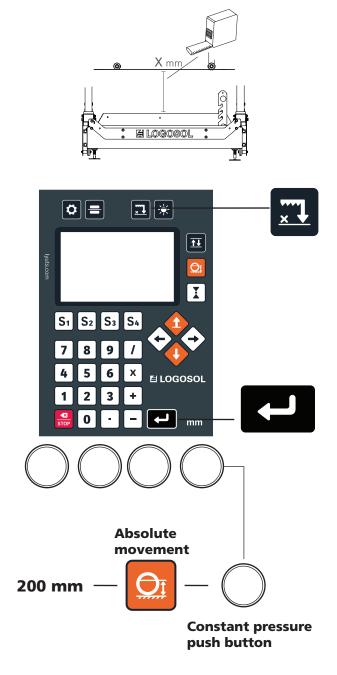
If the measurements still do not agree, try recalibrating.

## **Check before operation**

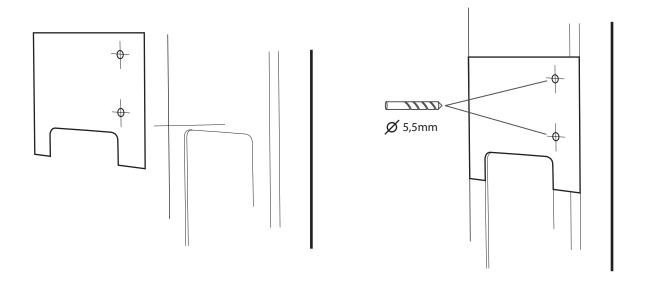
Check that the limit switches are working. Proceed as follows: Run the saw head until the lower switch trips; proceed slowly at the end before impact. Then repeat the operation with the upper switch.

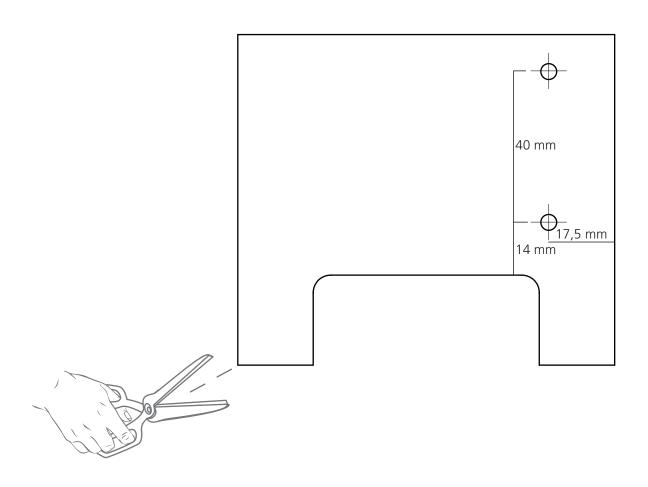
Listen for abnormal noises and make sure the chain is aligned between the upper and lower sprockets.

Make sure there is no physical contact **before** the limit switches are triggered.



# DRILLING TEMPLATE FOR LIMIT SWITCH - RETROFIT







## **Declaration of Conformity**

In accordance with Directive 2006/42/EC, Annex 2A

Logosol AB Arkivvägen 6 SE 871 93 Härnösand

hereby declares that the add on **Easy Set / Pro Set for electric motor** to Logosol B1001

has been manufactured in conformity with: Machinery Directive 2006/42/EC, EMC Directive 2014/30/EU

and has been manufactured in conformity with the following harmonised standards:

EN ISO 12100:2010, EN 60204-1:2018, EN 50370-1:2005, EN 50370-2:2003.

The band sawmill supplied is identical to the band sawmill that underwent EC type examination.

Härnösand 2024-03-28

Fredrik Forssberg, CEO

Felil Fran,

## UK CA

# Declaration of conformity

Logosol AB, Arkivvägen 6 SE-871 93 Härnösand, Sweden

hereby declares that the add on **Easy Set / Pro Set for electric motor** to Logosol B1001

has been manufactured in conformity with: Supply of Machinery (Safety) Regulations 2008

and has been manufactured in conformity with the following harmonised standards: BS EN ISO 12100:2010, BS EN 60204-2:2018, BS EN 50370-1:2005, BS EN 50370-2:2003.

Fredrik Forssberg, CEO, is responsible for the technical files.

Härnösand 2024-03-28

Fredrik Forssberg, CEÓ



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