

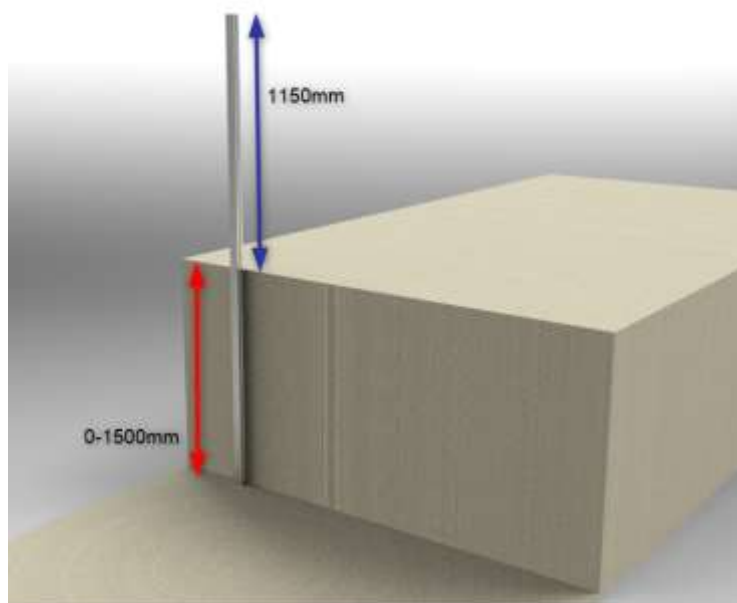
TECH LIFT M4

Installation Manual



TECH LINE SWEDEN AB
www.techline.nu

1. Unpack the lift and check that there is no visible transport damage. Leaving on as much protective packaging as possible.
2. Start by cutting the supplied aluminum profiles to the correct length, measure how high it is from the floor to the landing and add 1150 mm.



3. After the aluminum profiles have been cut to the required length, move the Tech Lift M4 forward about one meter in front of the installation site.
4. Remove the wooden joists on the pallet around the lift. Keep on as much protection as you can during the installation
5. Temporarily connect the power to the lift.
6. Open the cover at the control panel, 8 screws, put it on its side.
7. Plug in the battery



8. You now need to drive the elevator upwards to be able to remove the transport pallet under the elevator. To be able to run on the internal buttons on the run panel, you now need to jumper the locks, conductors 1 and 2 in cable to the locks, both top and bottom.

Now note that the safety circuit is not correct and run with caution.

To use this function when the lift is fully in use, the safety circuit must be broken (preferably push in the emergency stop)

The lift can also be operated without a full safety circuit. You do this by going into >display< and scroll down to >override run< and then select >override<



For this function to be possible, you have to press the up arrow on the main display and at the same time both buttons on the right.



9. Install the support profile on both sides of the lift's floor plates, unscrew the two screws that are already in the lift



10. Remove the top skid shoe on one side of the lift by removing nut caps, nuts, and washers.



11. Thread the aluminum profile down over the lower sliding shoe and over the pre-assembled screw that is attached to the support plate. Make sure the aluminum profile is fully down.



12. Replace the top skid shoe, fully tighten nuts and release half a turn.



13. On delivery, the cable chain is manufactured for the lift's entire lifting height of 1500 mm, so if the lifting height is lower, it will need to be adjusted to the correct height. The lift must be at the lowest position. Measure from the floor to the ledge and add 200 mm and use e.g. a screwdriver, to click it out at the right cog. Disconnect the power supply and connection on cables that are in the chain and pull off the part that is not needed, then click the cable chain again.





14. In the cable chain there are three cables, one for power supply, one for locks and also an extra one that is for possible connection for transmitters via cabling. If there is no need for direct cabling to the transmitter, this cable can be inserted together with the others for any future needs.

Use electrical tape to bring the cables together for easier routing. Then bend it at the right angle so that it can be passed through the support profile and up inside the aluminum profile.



Attach the included black cable duct to the groove above the cable.



15. Install the fastening plate between the aluminum profiles by first inserting 2 of the supplied D-nuts on each side. Then place the fastening plate between the aluminum profiles, if it is tight you may need to keep the profiles apart a little to prevent scratching of profiles. Loosely screw the D-nut on one side and then the other. Angle the plate up correctly and loosely screw the upper D-nuts.



D-nut



Measure the height of the ledge. Then place the fastening plate about 20 mm higher between the aluminum profiles.



16. Insert the supplied limit position into the aluminum profile on the same side as the cable chain. Place it at the approximate height of the ledge. The switch in higher place is for stopping of lifted height and the lower one is for main limit.



17. Now mount the ramp with attached brackets. Unscrew the two screws that are already in the lift, then screw them back together with the bracket. Also screw down the outermost screw on the bracket that should fit into the ramp, and place the ramp over the screw.



When you are done with the first side, unscrew the screws on the second side and take the next bracket and screw down the screw that should be in the ramp, put the ramp over the screw and then screw the two screws back.



Thread the included cable cover into the groove and place it in position over the cable chain.



18. Move the lift forward towards the landing, and press down on the mounting plate so that it is against the landing. Screw the lift into the three holes on top and the 4 holes on the side. Then tighten the D-nuts in the profiles.



After this step, it is **important that the profiles are lubricated with attached lithium grease** in the groove of the aluminum profiles where the sliding shoes go all the way for the lift's journey up and down.



19. Thread the included hinges onto the right side of the aluminum profile. Put them in the approximate position as in the picture and insert the the braces on the top and bottom ink.



20. Thread on the remaining three hinges on the door. Hang on the door and insert the middle hinge upside down to prevent the door from being lifted off. Adjust the height so that the door is 100-130 mm above the landing. Attach the included plastic cover to the top of the profiles.



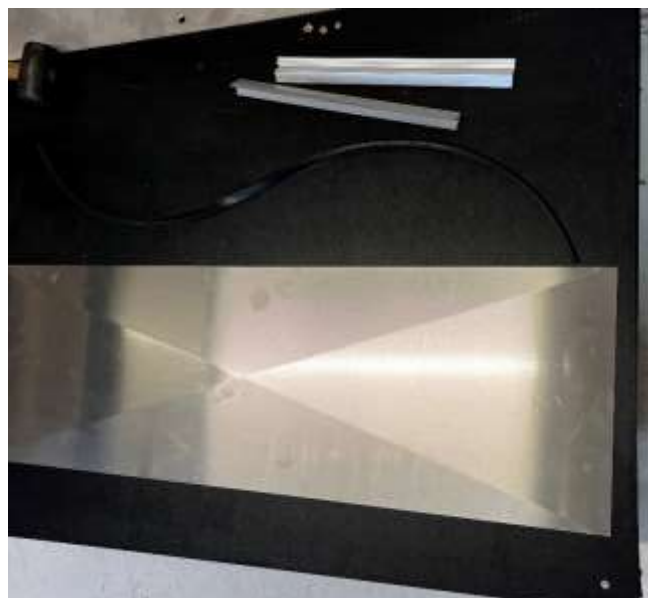
21. Thread the included lock into the aluminum profile, it should sit approximately in the middle of the door. Connect the cable 4x0.5 1-4 to the lock that goes up in the profile, tighten the D-nuts.



22. Then adjust the locking fork (both via the two screws on the bracket in the aluminum profile, up/down and with the two screws that are behind the fork, right/left) so that it goes straight and smoothly into the groove on the lock.



23. For mounting any cover plates in front of the lift.



Insert the z-profile into the groove of the aluminum profile, then also insert the rubber profile so that it closes tightly.



Fit the cover plate between the rubber and the z-profile, making sure that the rubber strip closes tightly against the plate.



Press the black H-profile over the cover plate and proceed to install the next plate if necessary.



The Tech Lift M series has a new motor control, this motor control works largely as before circuit boards with the exception of a number of different larger adjustment options.

We have also provided the circuit board with a very useful function, on the circuit board you can follow via LEDs and see that the entire safety circuit is intact.



When some switches are interrupted, all diodes light up until where there is a fault, then all diodes go out, if you want to see where the break is again press the up or down button.

The circuit board has built-in monitoring and charging of emergency battery, the status of the battery can be read in the display.

NOTE, when delivered, the battery is not connected, in order to be able to turn the lift correctly, this must be connected see display >battery missing<.



The lift can be run without a full safety circuit, this by going into the >display< and scrolling down to >override run<



and then select >override<



For this function to be possible, you have to press the down or up arrow on the main display and at the same time both buttons on the right.



Tips

The lift's cables that go to the lower and upper door locks (four-conductors) can connect conductors 1 and 2 in cables to both the lower and upper floors during installation to simulate a finished door lock.

To use this function when the lift is fully in use, the safety circuit must be broken (preferably push in the emergency stop)

The lift's functions are already pre-programmed at the factory delivery and thus do not need any additional settings, but if changes need to be made, it is possible to adjust the door lock's opening hours, door closing times (in case of door automation), time for soft start and soft stop. Contact us for advice on this.

The circuit board is also prepared for emergency telephones, which can easily be installed after installation.

Technical Specification

External Unit Dimensions (LxBxH)	1626 x 1157 x 1125 mm
Platform Size (LxB)	1400 x 900 mm
Safety door (BxH)	970 x 1100 mm
Lifting Heights	40-1500 mm
SWL	400 kg
Speed	30 mm/sec
Electrical connection	230V/115V 50/60 Hz
Power consumption in standby	3 W
Power consumption in operation	350 W/ 29 volt
Batteries	24 Volt / 5 Ah
IP Rating	IP 67
Temperatures	-25 to +45 Celsius

Carry out the checklist (Self-inspection) and send it on for CE marking.
Demonstrate to the customer how the lift works, what they do in case of an emergency and where they turn for service and any problems.



Tech Line Sweden AB thanks you for your trust to buy our products, and hope that you will be satisfied with your product choice.

If you have any questions about this product during installation or during your service responsibility, you can always reach us by either email or phone.

TECHLINE
SWEDEN AB

Tech Line Sweden AB

Kyrkbacken 2
507 90 Brämhult
Mejl: info@techline.nu
Mobil: +46 (0)723 735506 or +46 (0)709 837972
Hemsida: www.techline.nu
Org-nr: 5592480-58501