



Operating manual

Platinum Swivel 30/42"

electric swivel 180° left/right



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Intended Use

The product is designed for the lifting of Flat-TV sets out of furnitures. All company names and product names are trademarks of their respective owners. All rights reserved.

The scope of delivery may vary depending on the product and the equipment series. Please check the completeness of the delivery and notify us within 7 days of receipt, if the delivery is not complete.

Safety and hazard warnings

Please read this chapter carefully and follow all listed instructions. This ensures reliable operation and a long service life of your lift system. Keep the operating instructions in a safe place.

Damage caused by non-observance of these operating instructions invalidates the guarantee! For consequential damages we accept no liability. In case of property damage or personal injury caused by improper handling or non-observance of the safety instructions, we assume no liability! In such cases, any warranty claim expires.

- > For safety reasons, the unauthorized conversion and / or alteration of the product is not permitted. Do not dismantle it.
- > The product is not a toy and does not belong in the hands of children.
- > The product must not be damp or wet.
- > Do not leave the packing material careless, children could choke in the worst case if swallowed.
- > Dropping from a low height will damage the product.
- > Before using for the first time, please check that it is possible for the Flatlift to move in and out, including the mounted Picture set, and ensure a collision-free ride.

The quality

We have focused our attention on high functionality, ease of use, safety and reliability in the choice of components.

We thank you for your trust in our Flatlift brand products.

Through individual customer care we support you during your installation.



Characteristics:

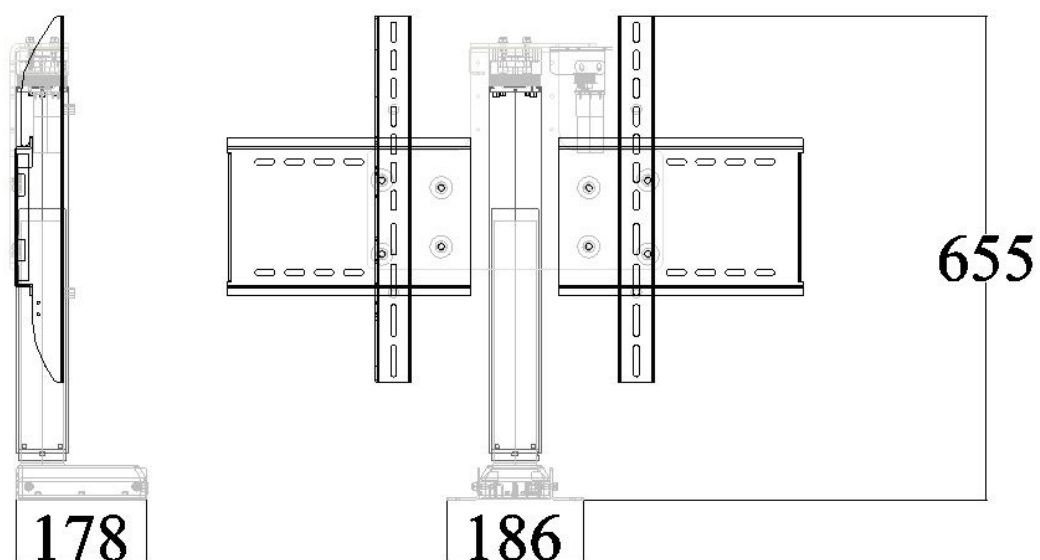
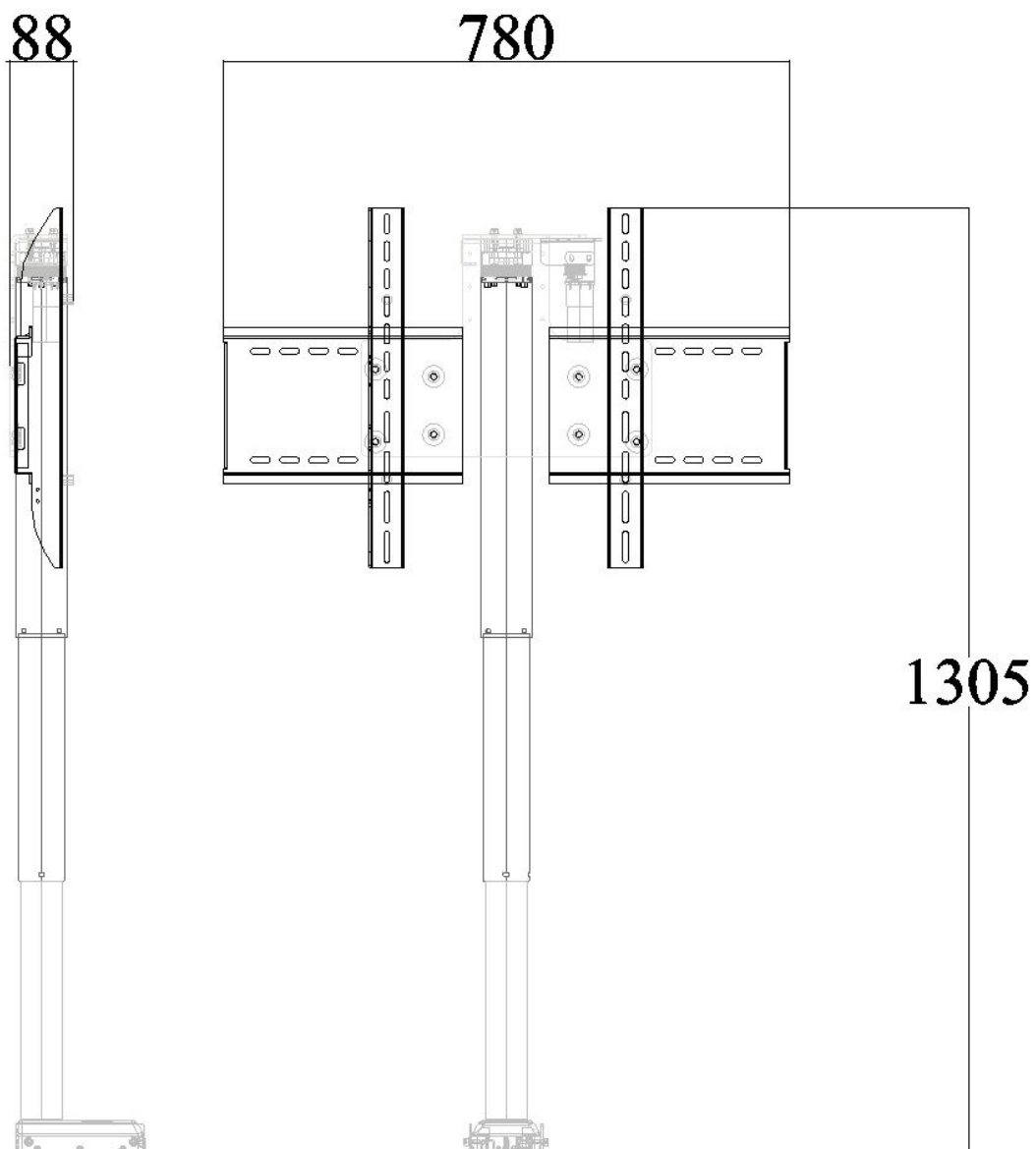
- > Installation base
W = 186mm D = 178mm
- > Installation dimensions Flatlift
W = 780mm D = 88mm H = 655mm
- > stroke 650mm
- > lifting speed 38mm / sec
- > TV weight max. 30kg / 300N / including case
- > TV size 30-42"(inches)
(maximum possible TV size in mm: W = *, H = max 616mm, D = *)
- > duty cycle 5%
- > Soft Start / Soft Stop
- > Low noise level
- > ambient temperature + 5 ° C to 40 ° C
- > Connection to room control possible
- > TV limit switch
- > millimeter programming of the endpoints
- > 230V emergency power supply (optional)

Delivery:

- > Flatlift Pop-Up 30/42" Platinum Swivel
- > control box
- > 230V power cable
- > Motor cable
- > 12V power supply for radio receiver
- > 433.92 MHz 2 channel radio receiver
- > 433.92 MHz 2 channel radio transmitter
- > Siemens Logo Controller
- > TV limit switch
- > Platinum light upgrade programming cable

* not relevant







Initial setup:

1. Fix your pop-up stand to the floor with 4 screws (fig. 1 no. 1) to prevent tilting of the system.
2. Connect all connections of the Flatlift according to the cable label. See page 8 for a simplified representation of the connections.
3. Connect the system to the mains voltage.
4. Button assignment of the remote control:
top left button (A): UP
lower left button (C): LEFT swivel
top right button (B): DOWN
lower right button (D): RIGHT swivel
5. Initialize the Flatlift by pressing the "Down" button on the transmitter (S.07 Fig. 6 No. 9) for 2 x 5 sec. Afterwards you drive your Flatlift 2x completely up and down again. If the system does not react to the radio commands, you can check the system inputs on the Siemens logo controller (see page 9).
6. Your Flatlift is now ready for use as the lift endpoints have been saved in the control box.
7. You can now mount your TV set on the system. To do this, hang the two brackets (fig. 1 no. 2). Attach these to your TV and secure the holder after reconnecting of the TV set by screwing in the safety screws (fig. 1 no. 4).

If you disconnect the motor cable from the control box, the Flatlift system must be reinitialized.

fig. 1

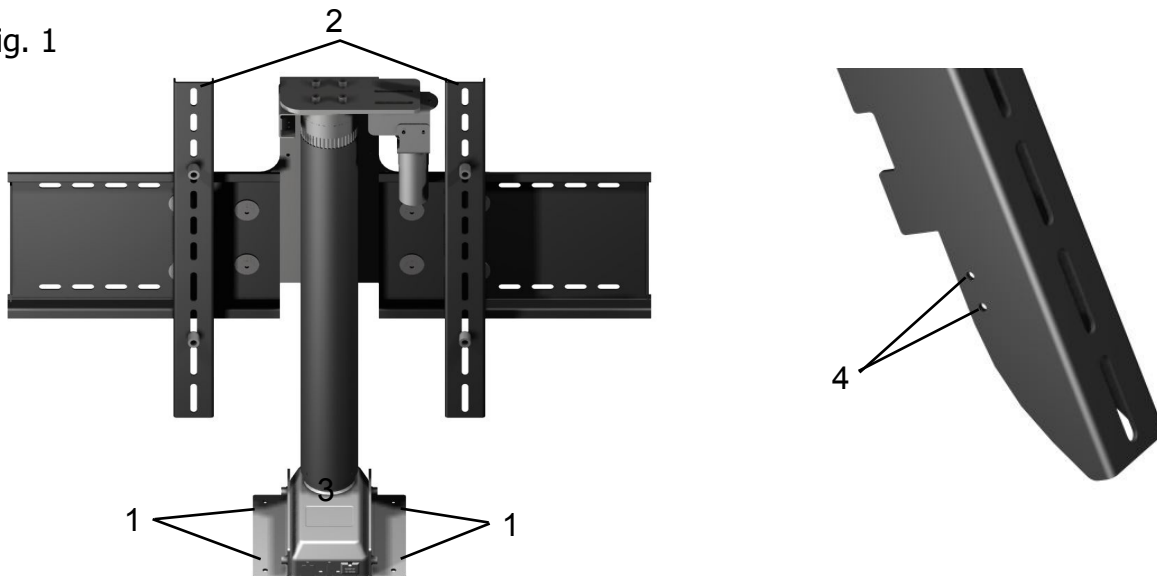
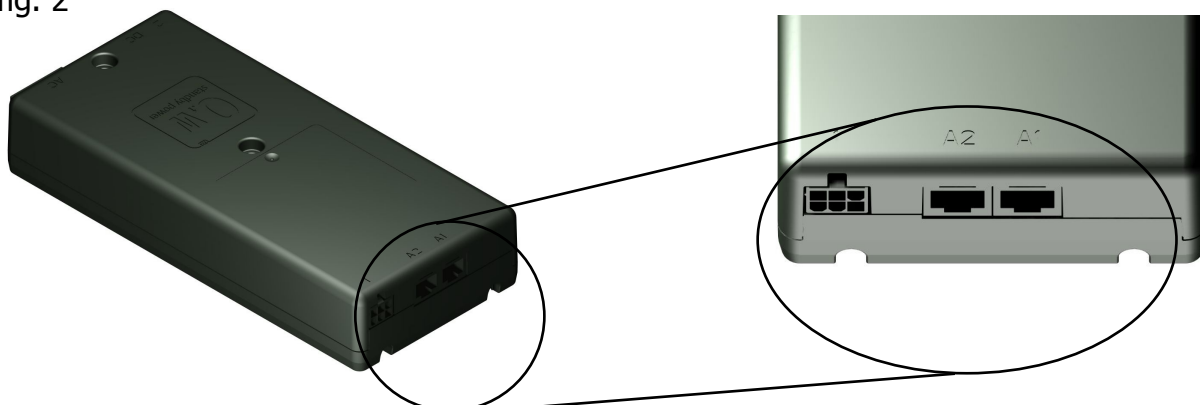


fig. 2



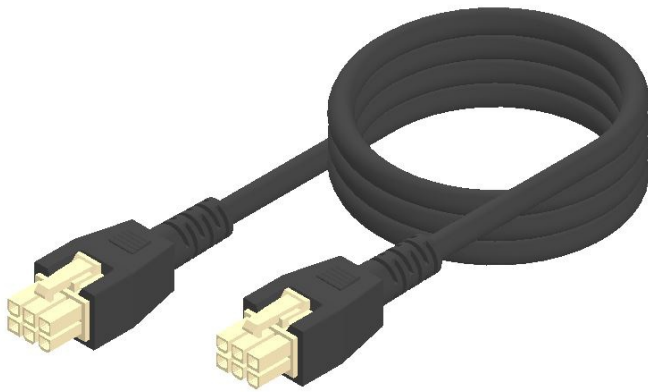


fig. 3



fig. 5

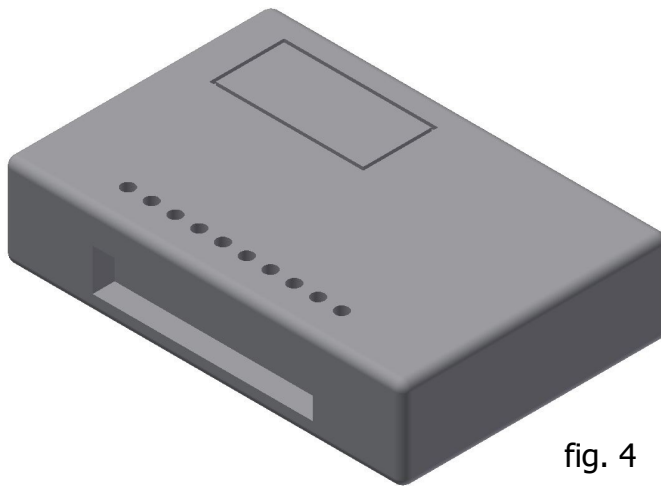
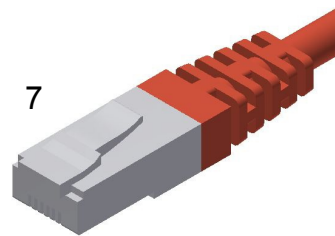
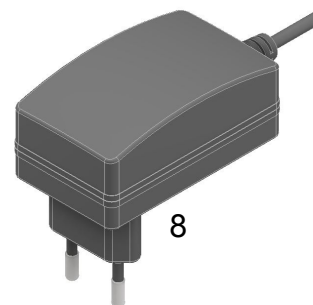


fig. 4



7



8

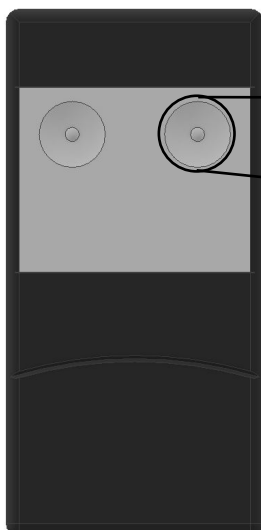
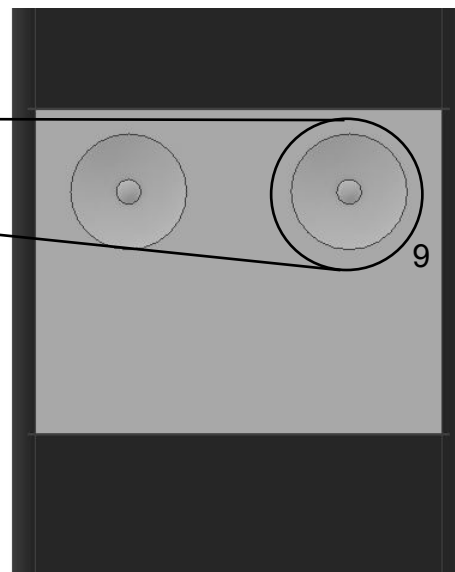


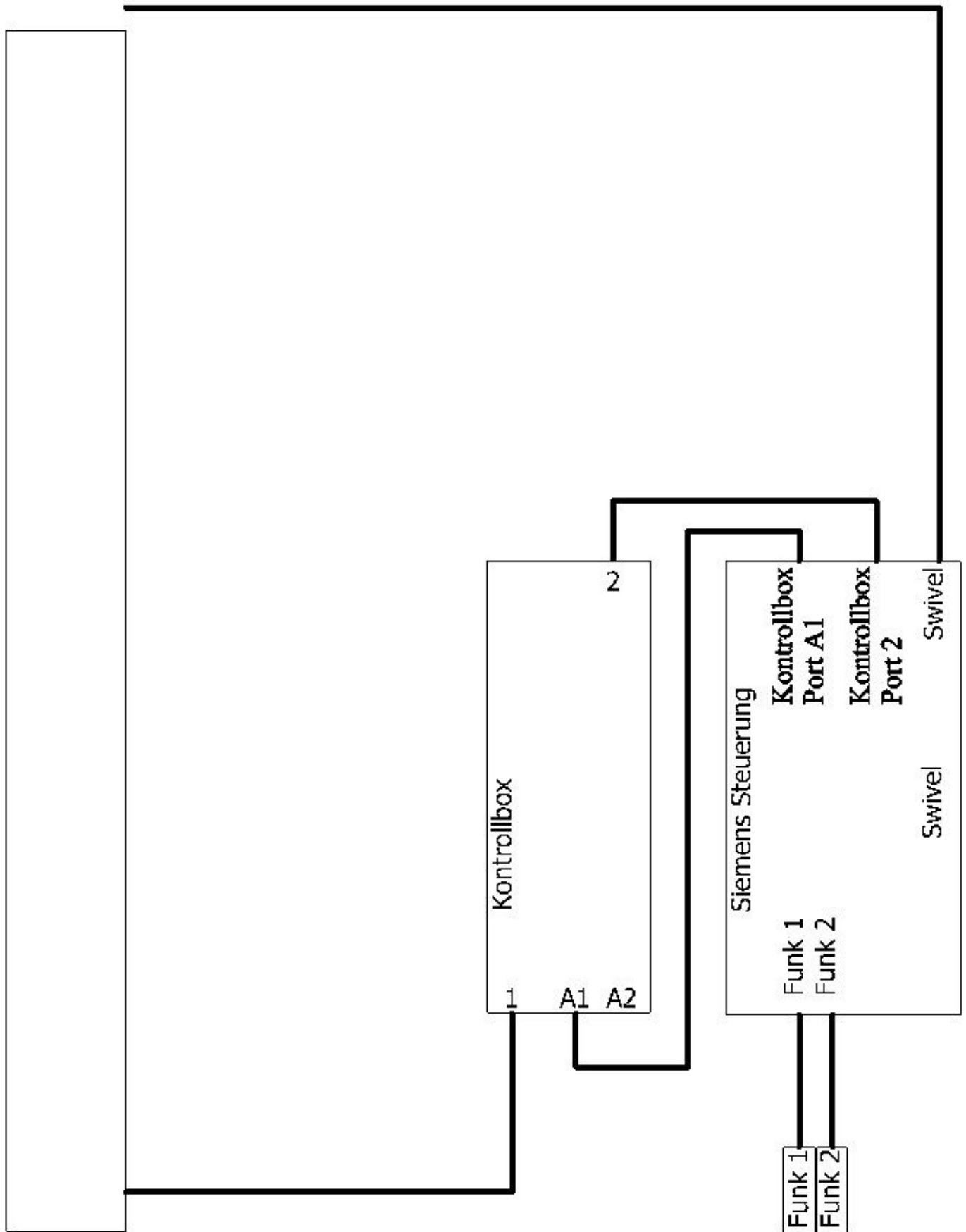
fig. 6



9



Simplified diagram of the connections





Your Flatlift system is equipped with a Siemens logo PLC control. This controls the sequence of the individual movements. In addition, various settings can be made on the controller to adjust the lift system or to check the current status of the system.

Navigation in the menu of Siemens Logo:

You can use the cursor keys on the logo control to move through the information and programming menu. When the controller is started, the display will show a display with the flatlift, lift model and version number of the software. To move around the menu, press the **"Down"** cursor once. The display changes to the date / time display. To check the **status of the system**, press the cursor **"Right"** once. The display should show (page **1/9**). The page is displayed in the upper right corner of the display. This page displays the **Inputs** of the system. Depending on the lift system, certain inputs must be switched (**black background**) for the system to work properly. The following list can be used to test the Flatift:



Inputs:

I-1: Signal Up: Start state: off	Can be used to check if the signal "UP" is present. (For example, if the button "UP" is pressed on the hand-held transmitter.
I-2: Signal Down: Start state: off	Can be used to check if the signal "DOWN" is present. (For example, if the key "DOWN" is pressed on the hand-held transmitter.
I-3: Swivel signal left: Start state: off	Can be used to check if the "turn left" signal is present. (For example, when the "Rotate Left" button on the handheld transmitter is pressed.
I-4: Swivel signal right: Start state: off	Can be used to check if the "right turn" signal is present. (for example, when the right-hand button on the hand-held transmitter is pressed.
I-5: Zero-Position: Start state: on	Can be used to check if the signal "Zeroing" is present. The zero position must be applied when the system is in the home position. If zeroing is not anticipated, the system will not move "UP" or "DOWN".
I-6: Lift up: Start state: off	Can be used to check if the Lift is in upper position. When the lift is max extended, this signal is switched to give the logo control the rotation release.



Functional sequence:

Up and swivel:

Pressing the "UP" button switches input 1 (I - 1). If I - 5 is present, the system will move up. When the lift has reached the upper end position, I - 6 is switched. The system is now allowed to swivel.

Swivel to zero position and move down:

Pressing the "DOWN" button switches I - 2. The system now automatically swivels to zero position (I - 5) and then moves down.

Set parameter:

If you are in the information level of the Siemens controller, you can switch to programming mode by pressing the "ESC" key. Now proceed as follows:

Select "Programming" -> "OK" button

Select "Parameterize" -> "OK" button

Select the parameter to be set -> "OK" button

Press the "OK" button to change the parameter with the cursor keys. If the value is set, confirm with "OK". You can exit the parameter and the programming menu by pressing the "ESC" key several times.

Adjustable values:

Swivel angle:

To set the maximum rotation angle, the values "LEFT" and "RIGHT" can be set. The factory setting is as follows:

on	= 10100
off	= 10100
Start	= 10000
CNT	= 10000

The start value is at the zero position and is always reset. To set the rotation angle, the values "on" and "off" can be set. It should be noted that the values "on" and "off" must be identical. In order to be able to set the ideal rotation angle, we recommend to set the values to 10900. When the lift is swiveling, the value "CNT" indicates the current position of swivel degree. So, if you have reached the optimum swivel angle, release the "Swivel" button on the remote control. Now you can transfer the value "CNT" into the columns "on" and "off". The system will then always stop in this position.

Approaching the zero position:

When the lift approaches zeroing, value "from Lef" and "from Rig" can be used for accurate positioning. Here you have to pay attention to which direction the system is going back. You can set in this parameter the time that elapses until the switch forwards the signal to the controller. That means: If the lift stops too early you have to increase the time value, if the Lift stops too late you have to reduce the time value.



Setting the rotation speed:

The potentiometer (fig.1 No.1) on the right side of the Siemens control allows you to continuously adjust the speed of rotation. Please note that too high rotation speed leads to inaccurate positioning due to the inertia.

Approach the ideal rotation speed so that all positions can be approached and switched optimally. Turning the potentiometer counterclockwise will slow down the system, turning the potentiometer clockwise will make the system turn faster.

Only when you follow this instruction the system will be ready for use.

If the rotational speed is subsequently changed or adjusted, it is necessary to adjust the parameters for the swivel angle and the approaching time for the zero position. See page 10 (Adjustable values).

fig.1





Operation via the Siemens logo control:

You can control the movements of the system, for maintenance and set-up purposes, via the logo control. For this, you must be in the display, either on the start screen (Flatlift logo) or on the (page 9/9) in the information menu.

Now the "ESC" key and the respective cursor key must be pressed together.

Attention: in this operation, the positions are not queried. Attention must be paid to possible collisions.

Cursor Keys:

Cursor "UP":	signal "LIFT UP"
Cursor "DOWN":	signal "LIFT DOWN"
Cursor "LEFT":	signal "SWIVEL LEFT"
Cursor "RIGHT":	signal "SWIVEL RIGHT"

Zero position switch:

Since this lift is equipped with a swivel, the model has a zero position switch.

To prevent collisions the zero position switch ensures that the lift which is may in a "swiveled" position can not move up or down.

The system can only move up and down, when ensured that the roller of the switch is in the recess. (fig. 2)

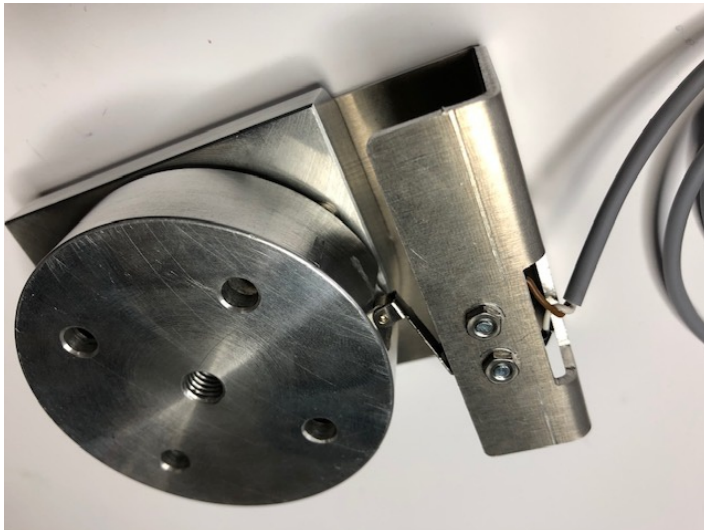


fig. 1

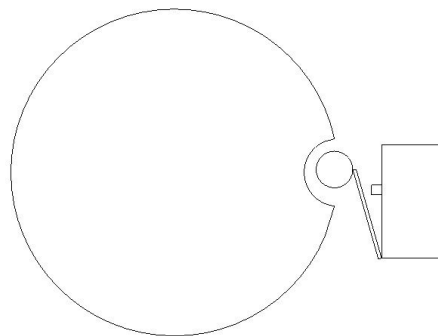


fig. 2



Adjusting the lifting height:

The lifting height is set by programming the control box. This requires the Platinum Light Upgrade Upgrade Programming Cable (PLU) and associated software.

Download Link:

<https://flatlift.com/FLATLIFT-MC46.zip>

To be able to adjust the extension travel, this must first be determined.

To do this, measure the system in the retracted and extended states at the same point. Then calculate:

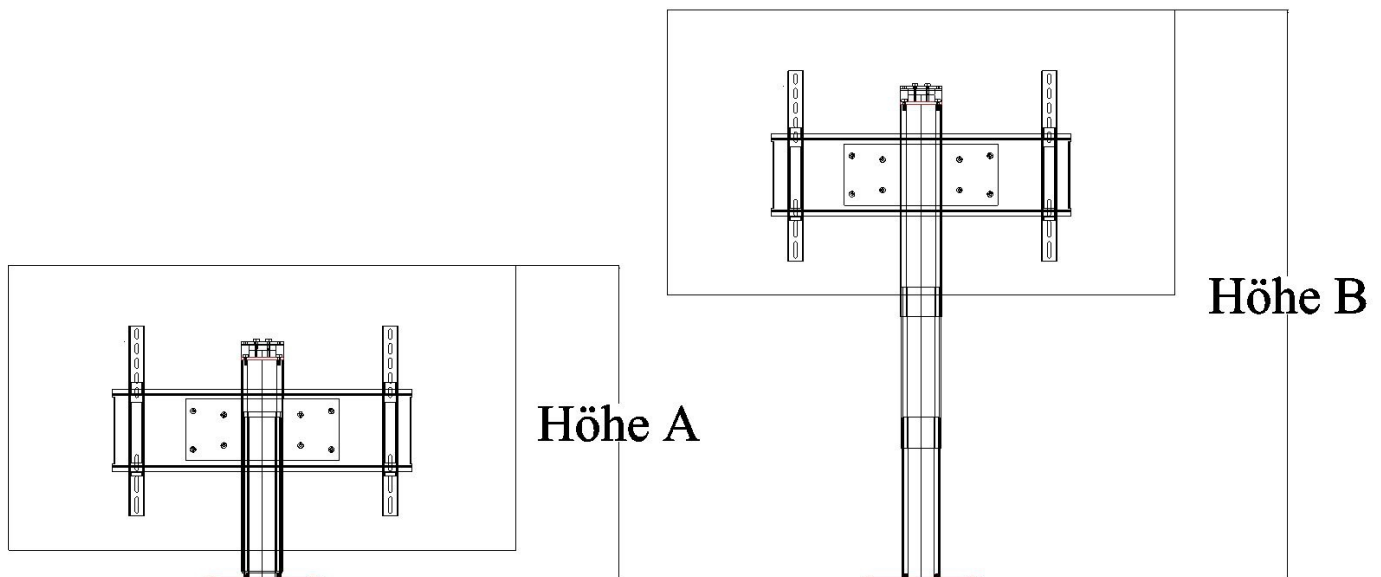
Height B - height A

e.g.

Height A = 600mm

Height B = 1000mm

$1000\text{mm} - 600\text{mm} = 400\text{mm}$



Before programming the limit positions, you should have read the instructions for the (PLU). (included in the download)

Observe the nameplate of the control box.

For CBD4 boxes use the application:

FLATLIFT-CBD4-configurator-1.0.1-flatlift-setup.exe

For CBD6S boxes use the application:

Flatlift CBD6S-configurator-1.0.0-advanced-setup.exe

Set the calculated value (in the example 400mm) according to the PLU manual on page (5 point 7). Furthermore you have to set the value Parameter 1 on page (12). Always set one digit less than the digit which was calculated.

(In the example $400 - 1 = 399$)

Now follow the remaining steps of the instructions to complete the programming.



Teaching in the hand transmitter:

You can get additional handheld transmitters for your system.
Since the transmitters are coded, you must teach them in.

1. Remove the cover (Fig.11 No.1) on the radio receiver to access the programming buttons.
2. Press the left button (Fig.11 No.2). An LED (Fig.11 No.3) flashes slowly.
3. While holding down the programming button, press the first button on the handheld transmitter at the same time (Fig.12 No.4). The LED (Fig.11 No.3) now flashes quickly after the hand transmitter recognition.
4. Release all buttons.
5. To read in the second channel, repeat the process from step 2 using the second button on the handheld transmitter (Fig.12 No. 5).

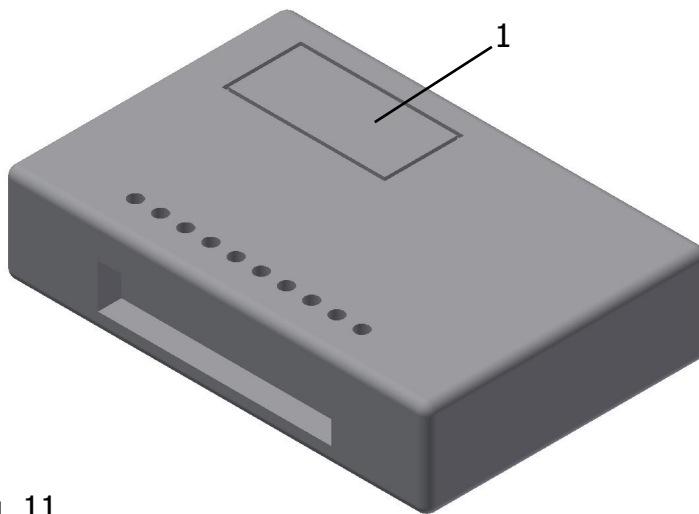


fig. 11

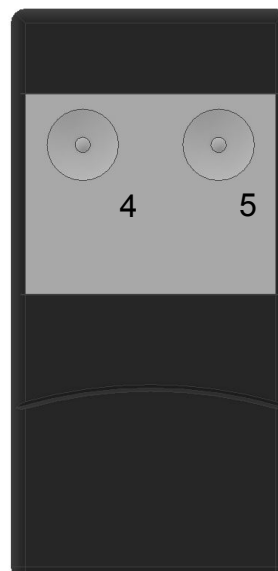
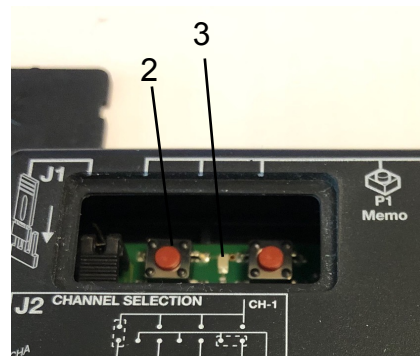


fig. 12

! Important ! Please only with the left programming button learn
The right button is for deleting.



If your handheld transmitter has been successfully read in,
if you press the button to send a quiet
Hear click in the receiver.

With a handheld transmitter with four radio channels, this is
Operation with the top two buttons on radio module 1 and
performed with the lower two on module 2.

Please note that the slider on the right side of the
Hand transmitter (Fig.13 No.6) is in the lowest position.

The jumper position should also be checked.

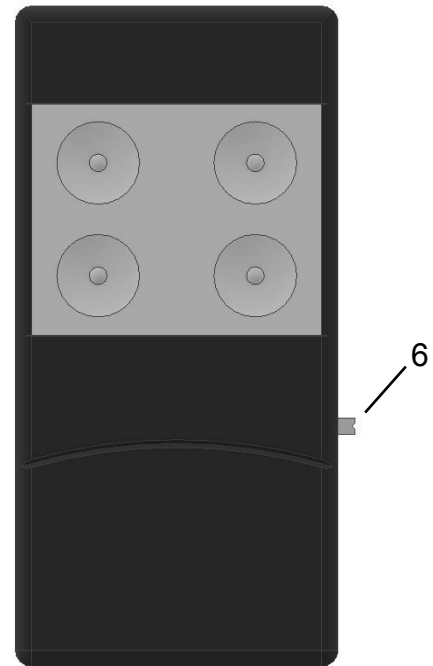
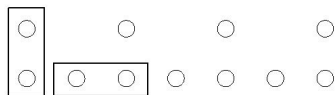


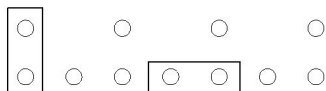
fig. 13

Jumperstellung



2-Kanal

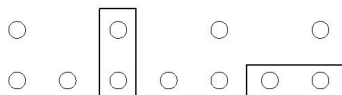
Jumperstellung



4-Kanal

Funk 1

Jumperstellung



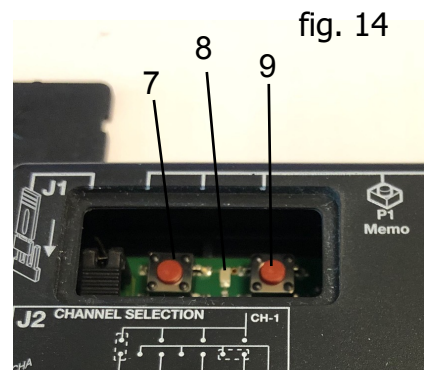
4-Kanal

Funk 2

**Reset the radio receiver:**

It can happen that the stored transmitter codes in the receiver are lost.
In this case, the recipient must be deleted.

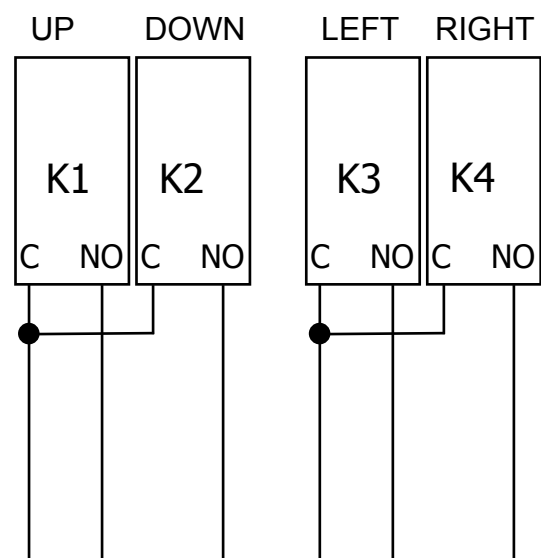
1. Remove the cover (p.09 Fig.11 No.1) on the radio receiver to access the programming button.
2. Simultaneously press both programming buttons (fig. 14 no.7 + 9) until the LED (Fig.14 No.8) flashes quickly. This is the sign of the successful deletion.
3. Now teach your handheld transmitter back in.
(See page 09)

**Connection to a room control:**

You can connect your Flatlift to a room control if it has 2 relay outputs with floating contacts. These relays must be operated for a programmable period of time.

- 1) Disconnect the radio receiver from the mains.
- 2) Disconnect the cables (terminals 2 - 4) on the radio receiver (fig. 4).
- 3) Now connect the blue and red wires to one of the relay outputs (lower control command Flatlift).
- 4) Bring the blue wire to the second relay output and connect the green wire to this relay output (lift the flatlift).

You can also use a new cable with RJ45 plug.
You can use the following pin assignment for this.



Pin 4 & 5 for	Remote 1	Remote 2
Pin 4 & 8 for	up	left swivel
	down	right swivel



fig. 1

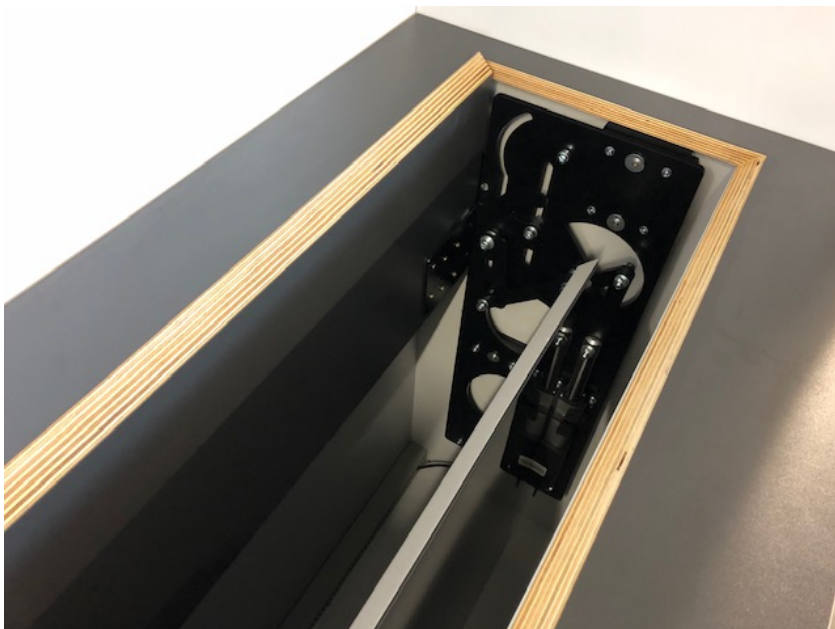
Lid Variation 1:

Here, the lid moves up with the Flatlift and stays on top of the TV. This is the so-called "floating top" lidding solution.

Depending on the customer's request, you can mount the lid on the Flatlift with the "Lid Fixing Brackets". These are to be attached to the TV mount as shown in fig.2.



fig. 2



Lid Variation 2:

The lift systems of Platinum Series can also be equipped with the Flatlift Lid-O-Matic electric Lid-Opening Systems.



Installation recommendation for furniture integration:

The 30/42" Flatlift PS has a stroke of 665mm. Since there are different installation options for the system, we clarify here how the system is best placed in cabinet assembly.

For cabinet or furniture installation, the following rule applies:

There must be at least 10mm clearance under the TV attached to the Flatlift. This clearance is always required during the initialization run. At least 10mm space must be kept above the TV. Is the Flatlift complete extended, we recommend as min. Dimension between bottom edge TV and surface furniture 10mm.

This results in the following TV Calculation formula:

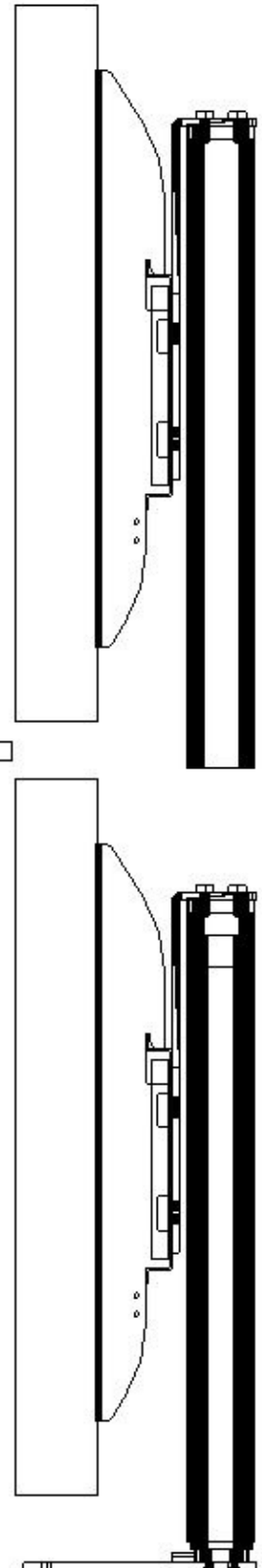
Lifting height of lift = 665mm - 3 x 10mm min.
Distance - (12 to 19mm) Cover thickness =
616mm

616mm = max. TV height

min. 10 mm

min. 10 mm

min. 10 mm





Fault diagnosis:

If your Flatlift Pop-Up PS System does not work properly please check the following points:

Flatlift does not move

Is the power cord connected to the control box?

- > Check the mains connection
Are all plugs correctly plugged into the control box? (ATTENTION, incorrectly inserted plugs can damage the system)
- > Check all connections
Is damage to the cables, the control box, the handheld transmitter or the Flatlift visible?
- > Damaged components need to be replaced, please contact us
The Flatlift stops and can only be moved in the opposite direction
- > Is your Flatlift fully extended?
- > top material too heavy?
- > Possibly radio channel deleted!
- > Programming error on the room control!
- > Endpoints wrongly set!

Have you equipped the Flatlift with a too heavy TV or top material?

- > Relieve the Flatlift and try again
Is the radio transmitter transmitting?
- > If necessary, replace the battery of the remote control
Does the receiver receive?
- > When operating the radio transmitter, a "click" should be heard from the relays on both channels.
(If not, delete channels and re-learn them, see page 14 + 15)

Jerky / stuttering process of the lift?

- > Please check if a radio source is transmitting 433 Mhz in the vicinity of your house
(possible sources of interference: garage door opener, baby monitor, alarm system or intercom)

With a radio interference source you have to convert to a frequency of 868 MHz!

Free conversion from 433 Mhz to 868 Mhz is only possible within the first 7 days from the delivery date. If this point is available to you, please contact us.

If you have a problem during commissioning or have a problem, you can contact us by phone or email: Customer Service:

By Email: service@flatlift.de

By phone during our service hours from 8:30 am to 4:30 pm (CET) at +49 (0) 62 41 - 30 56 00

Always have the following information ready for us or email us with:

- > your customer number
- > invoice number or delivery note number
- > Date of purchase of your Flatlift
- > Name of your Flatlift system