

# Mounting instructions Rota-Kit series



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# Installation instruction Rota-Kit series

Models	A (mm)	P3081	P3082	P3083
P2630	180	270	335	335*
P3078	430	520	585	585*
P3080	680	770	835	835*

\*Shown length dimension depends on the choosen screen size

Necessary projector or flatscreen mounting accessoires:



**P3081**  
Balljoint set suitable for projectors and flat panels up to 20 Kg  
Extra height 88 mm



**P3082**  
Ball joint set suitable for projectors up to 50 Kg.  
Extra height 155 mm



**P3083**  
Flat panel mounting module. Can only be used with the P3082 ball joint.

**The Rota-Kit is available in various version and are suitable for directing projectors to projection screens and flat screens towards public. With the 4 free programmable positions (within 350 degrees), the projector or flat screen can be pointed at any desired direction.**

**To mount projectors or flat screen one of the option above mentioned are needed. Lock the option firmly with the screw and alan key. This prevent unwanted rotation.**

### Accuracy of positioning:

When the projection screens are beeing installed before the Rota-Kit, the following tolerance can occur. The tolerance is caused by the resolution of the digital measurement of the Rota-Kit and the position of the screen. Ones the positions are set, the acuuracy of positioning will be very high. See below the tolerance measured out in a scheme.

Projection tolerance when pointing on a :

Projection distance	Possible dislocation at positioning	Tolerance afther placement
5 meters	10 mm	+/- 1 mm
10 meters	15 mm	+/- 2 mm
15 meters	20 mm	+/- 4 mm
20 meters	25 mm	+/- 8 mm

The tolerance is the difference between the programmed position and the actual reached position compare with the already installed screen. The shown tolerances are indicated and can only be less then shown.

When the Rota-Kit is being installed before the projection screens, the following minimum tolerance can occur. The tolerance is caused by the resolution of the digital measurement of the Rota-Kit. The projection screen can be lined out if necessary with the Rota-Kit. Once the positions are set, the accuracy of positioning will be very high. See below the tolerance measured out in a scheme.

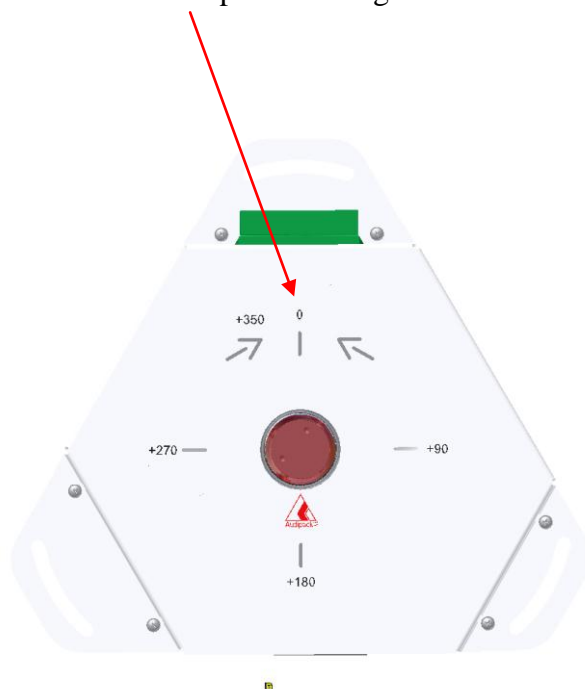
Projection tolerance when repositioning:

Projection distance	Tolerance after placement
5 meters	+/- 1 mm
10 meters	+/- 2 mm
15 meters	+/- 4mm
20 meters	+/- 8mm

The tolerance is the difference between the programmed position and the actual reached position. The shown tolerances are indicated and can only be less than shown.

1.

When mounting the Rota-Kit to the ceiling, be aware that the Rota-Kit is installed level. Be aware of the right direction of the “0” position of the Rota-Kit. The Rota-Kit has a blind spot of 10 degrees.



Be aware the “0” position is pointed to a non used projection angle.

Use minimal 3 bolts or screws to fsten the Rota-Kit.



2.

Screw the keeper on the axis of the Rota-Kit. The type of keeper determines the choice of load on the Rota-Kit. Screw it on firmly (without tools) and lock the inserts with an allen-key..

3.

Connect the Rota-Kit according the scheme below:

Function	Wire combinaton	Key board position
Store	C + S	
Rotate Left	C + L	
Rotate Right	C + R	
(Go to) position 1	C + 1	
(Go to) position 2	C + 2	
(Go to) position 3	C + 3	
(Go to) position 4	C + 4	

C = common.

Use only potential free contact closures to make the connection.

Max. control cable length aprox. 30 meters, Minimum shielded cable thickness 0.75 mm3.



The wired control can be connected to the green Phoenix connector.



#### 4a.

Mount the projector mount to the projector and mount this assembly to the rota-kit.

Connect the power adapter to the Rota-Kit.


The Rota-Kit will automatically go to it's "0" position.



### Note:

**Mount the projector (or other AV equipment) cables in a way that they are clear from moving parts.**

#### Pre-programming the first position:

Rotate the Rota-Kit for about 10 degrees away from it's "0" position (homing position).

This can be done by using the wired control or press  on the key-board.

Set the temporarily first position. Press button  and within 1 second button .


Aim the projector by loosening the ball joint. When the correct position is found, lock the ball-joint firmly.



*Tip: Always programm the latest position first. The programm the first position. In this way the programming will always be the most accurate. When using the product, always start form position 1 to 2 or position 3. When returning form position 4 to 3, stop first at 2, then go to 3. This will give a higher accuracy of positioning.*

### Programming the second position:

Rotate the Rota-Kit to the second position. Programm this accurat position.

### Confirming and programming the first position:

Return to position 1, bij using the start or fence and reprogramm position .

In this case the accuraty between position  and  is consistant.

Finally position  and  can be set.

## **Note:**

Mount the projector (or other AV equipment) cables in a way that they are clear from moving parts.

4b.

Mount the monitor bracket to the flat screen. Mount this assembly to the rota-kit.

Connect the power adapter to the Rota-Kit.

The Rota-Kit will automatically go to it's "0" position.

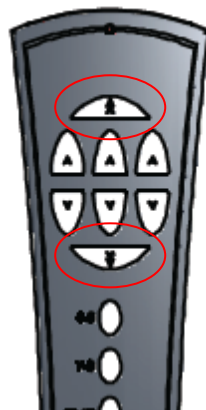
Refer 4a for programming the positions.

### **Using the Rota-Kit with a remote controll.**

When the Rota-Kit is used with the optional 260218 (IR) or 260219 (RF) remote please refer to the installation manual of the print set.

In case 4 positions are controlled by a remote controll, do not press the upper or lower "general activation" button .

This button with try to activate all 4 positions in 1 time. The Rota-Kit will not respond to that and stall.



## External control of the Rota-Kit.

To control the Rota-Kit by contact closures or (Audipack) remote control, please follow the instructions on the wiring diagram.

Use for each position a separate relay; do not use 1 relay for 2 positions.

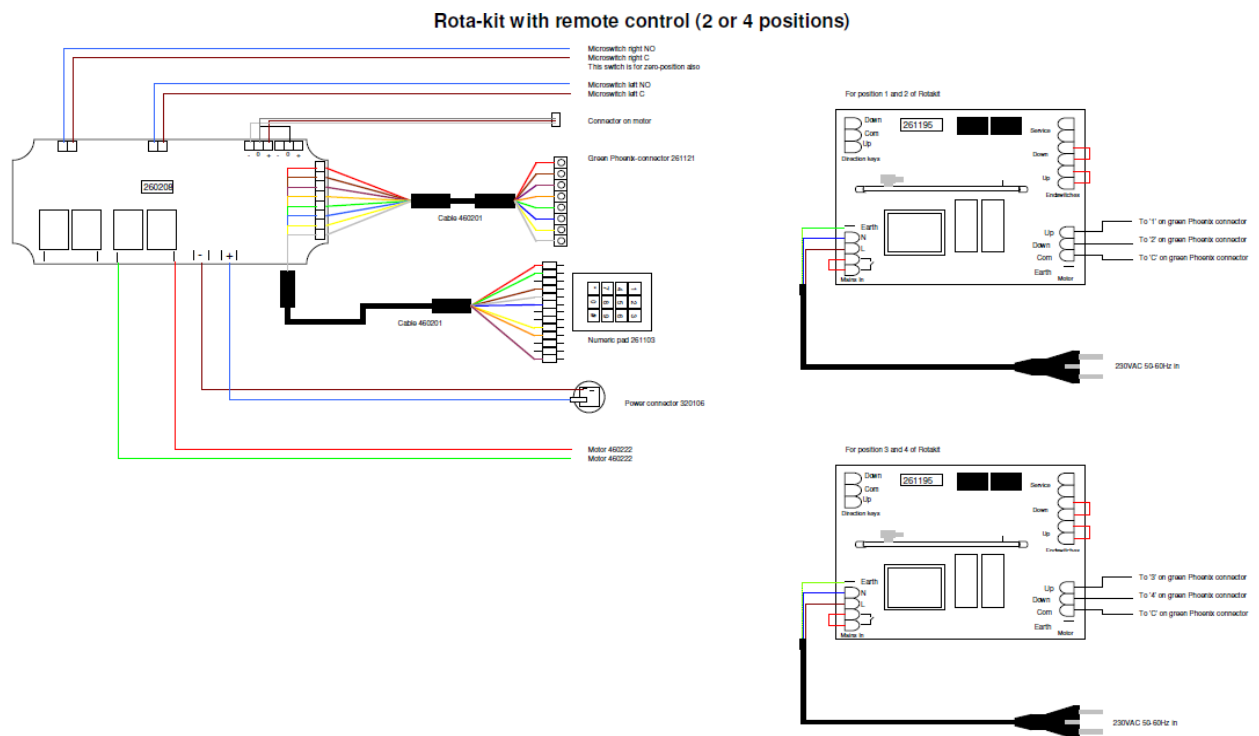
Use the below listed Audiapck remote controls for wireless remote.

1 x 260218 Infra red remote for 2 positions

1 x 261227 Infra red remote for 4 positions

1 x 260219 RF remote for 2 positions

1 x 261228 RF remote for 4 positions



## General important announcements:

**When the power is taken of from the system in static position.**

**The Rota-Kit will slowly return to it's "0" position. After "homing" the programmed position can be activated again. There's no need for reprogramming. The Rota-Kit will perform normal speed (inclusive slow-start and slow-stop).**

**When the power is taken of from the system in during rotation.**

**The Rota-Kit will slowly return to it's "0" position. After "homing" the programmed position can be activated again. There's no need for reprogramming. The repositioning to the first chosen position will proceed with 30% speed.**

A.

When persons are close or nearby the Rota-Kit it is obligated that the operator has constant visual contact with the lift during it's travel.

B.

The control panel must be installed or positioned in the way that the operator has constant visual contact with the Rota-Kit during it's travel.

C.

The Rota-Kit is not suitable for rotating persons.

D.

It is allowed to mount 1 piece of equipment, keeping the allowed max. load of the Rota-Kit in mind.

E.

When more equipment needs to be installed, the equipment must be assembled in a way that they are mounted together as 1 piece on the Rota-Kit, keeping the allowed max. load in mind.

F.

When loads are mounted on the Rota-Kit it is important that the point of gravity of the load is centred under the Rota-Kit.

G.

When the Rota-Kit is faulty during normal use or during testing, it must be put out of function immediately. The repair must be done by a approved engineers. Clearance of the product after repair must be given by authorised and trained engineers.

H.

When the product is being changed or mechanically altered, the warranty will end immediately.

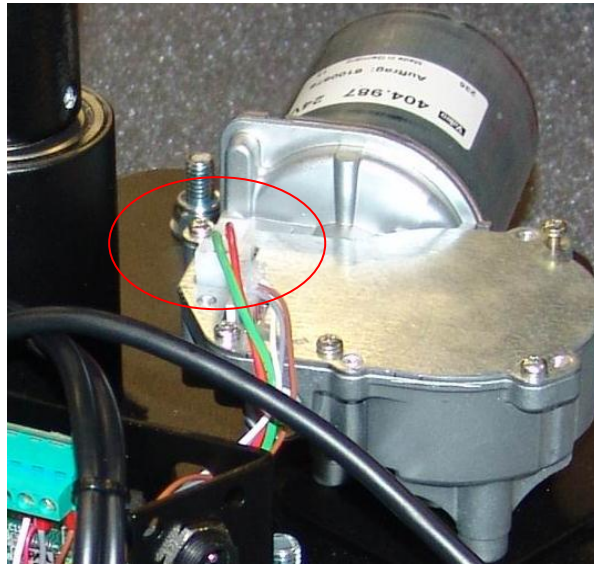


**FAQ:**

-The Rota-Kit doesn't memories the programmed positions.

The Rota-Kit is always tested before shipment. It might be possible that the sensor connector is disconnected or not connected properly. This connector can lose its position during rough transport or installation.

- Remove the black Rota-Kit cover. Beware of the flat cable!
- Confirm the position of both connectors (motor and sensor).
- Clean them if necessary with contact spray.
- Reinstall the cover.
- Test the programming



-The Rota-Kit does not find its “zero point” when the power has been reconnected to the Rota-Kit.

Disconnect the green connector from the Rota-Kit to exclude possible wiring problems between Rota-Kit and control systems like Crestron / AMX.  
Make sure the product is tested as an individual.

**Notes:**