Rollerdoors.net Shutter Installation Instructions

Always check on delivery that the order details are correct and the shutter is undamaged, especially **before removing any existing shutters**.

Sequence of Installation & Contents

01. Pre-Installation & Component Check
02. Prepare the Opening
03. Fitting the Guides and Box Assembly
04. Motorised Operation Installation
05. Setting Motor Limits
06. Final Checks
07. Operating Information
08. Recommended Service Period
09. Warranty Information
10. Technical Assistance

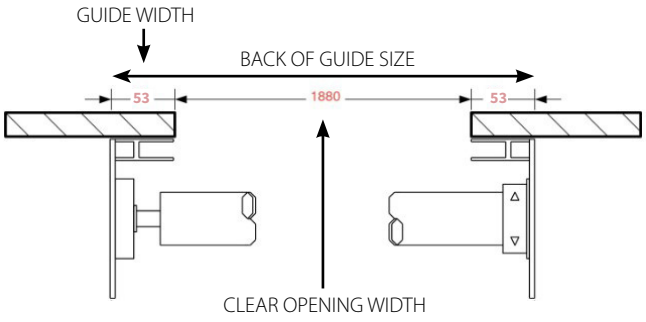
01. PRE-INSTALLATION & COMPONENT CHECK

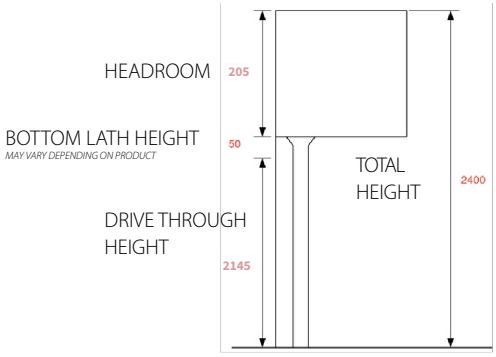
Check:

i. Delivery note and number of packages
ii. Check for any damage to the guide rails or the outside of the curtain (BEFORE UNWRAPPING)
iii. Assembly drawing
iv. Shutter dimensions/colour
v. Opening dimensions/clearance
vi. Components/accessories

Do not proceed further with the installation unless you are sure that the shutter is the correct size, there is no damage and all components are present.

Example Assembly Drawing

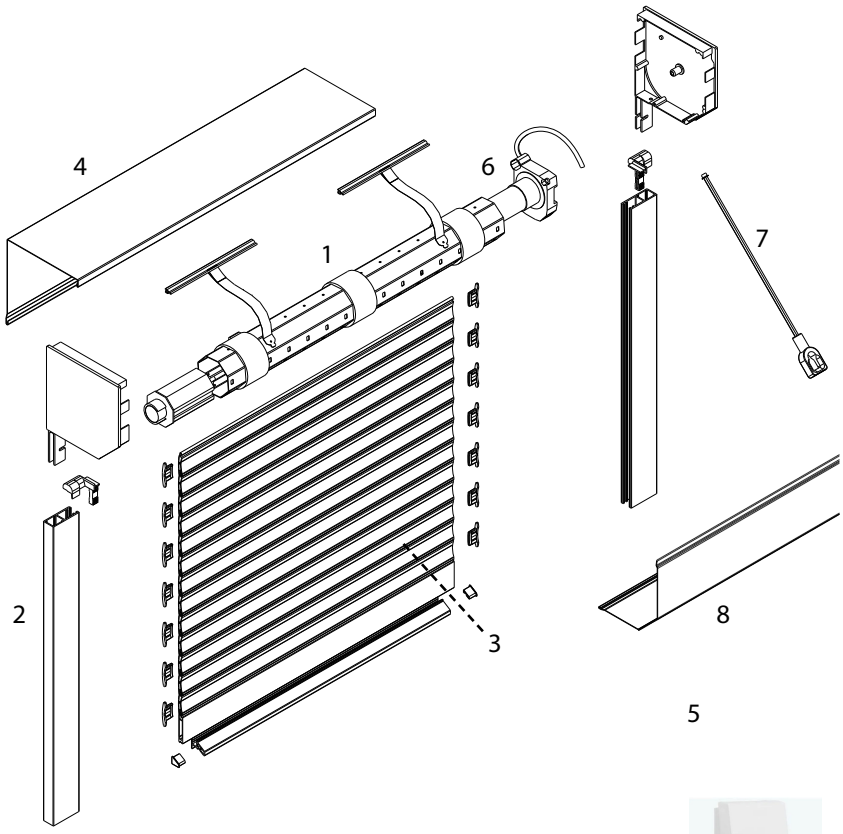




SHUTTER COMPONENTS

Parts Common to Each Installation

01. Axle assembly (Shaft)
02. Guide rails
03. Curtain
04. Box assembly
05. Control unit and cables
06. Motor (only required for electrical operation)
07. Override kit
08. Box Lid



Recommended Fixings (not supplied)

Note: When installing the shutter, you must check the loading capacity of the fixings you are using.

Structural Material	Minimum Fixings	Recommended Fixings for Larger/High Usage Shutters
Timber Frame	M8 x 70 coach screws	M10 x 100 hex heads
Steelwork	Tec screws M8 x 10mm hex head or dome head bolts which must be tapped into the steelwork	M10 x 25

Recommended Tools for Assembly

- Drill with pneumatic/hammer action to take the drill bits used
- 7mm, 10mm & 22mm masonry bits up to 400mm long (or wall thickness)
- 3mm, 4.2mm, 10mm & 13mm metal drill bits
- Countersunk pozi-drive type fixings or similar with rawl plugs
- Screw drivers and wire strippers
- 4mm & 6mm Allen keys
- Pliers
- Tape measure
- Tin snips
- Spirit level
- 3 & 4 core plugs
- 3 amp plug
- Hacksaw
- Pop riveter (4mm & 4.8mm brown or white rivets)
- Step ladders
- Silicone gun with brown, white or clear silicone
- Adjustable bevel

Required Safety Equipment for Assembly

- Hard hat
- Safety gloves
- Protective clothing & footwear
- Safety goggles/glasses

SAFETY AND COMPLIANCE

Safety Obligations

Your safety, your end user's safety and that of the general public are our primary concern. To that end, please read, understand and follow our advice. These installation instructions are intended for qualified and trained installation engineers. Installation, initial operation, servicing, repairs and dismantling of this product should only be carried out by a qualified and trained installation engineer. Installation should be carried out by a miniumum of two qualified engineers. Wear suitable clothing and take all necessary safety precautions when drilling or working from height to avoid injury. Make sure no sharp objects come into contact with the product to avoid damage.

Installation Criteria

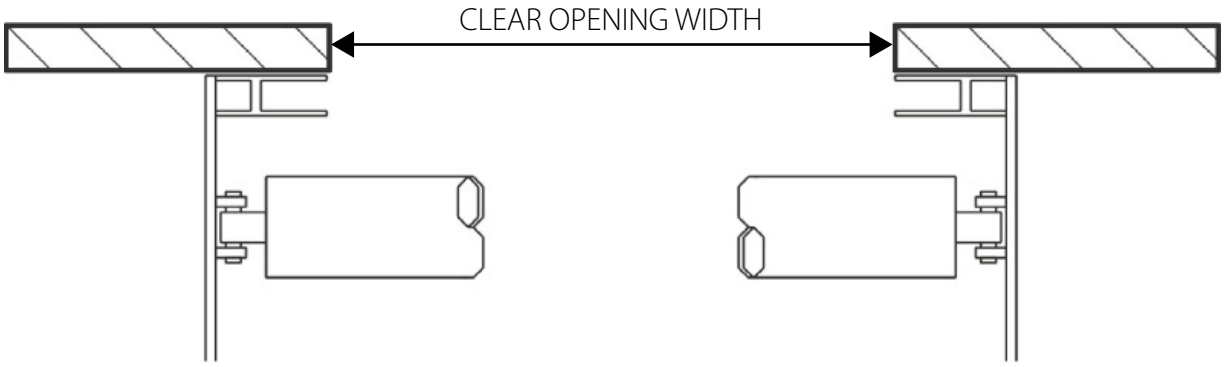
The structure of the opening must be adequate to take the weight of the shutter and suitable to take the appropriate fixings. The strength of the fixings must be enough to support a minimum weight of 25kg per square metre of the roller shutters. Be aware that this is a dynamic loading.

There are many configurations of our shutters available, but these two configurations represent the most common variants. Any other configurations will be a variation on the diagrams shown below.

When unpacking the shutter make sure that the curtain and roller shutter box are placed on trestles with protective sheeting and no loose debris to avoid denting or marking the slats. We will not accept liability for any damage if this instruction is not followed.

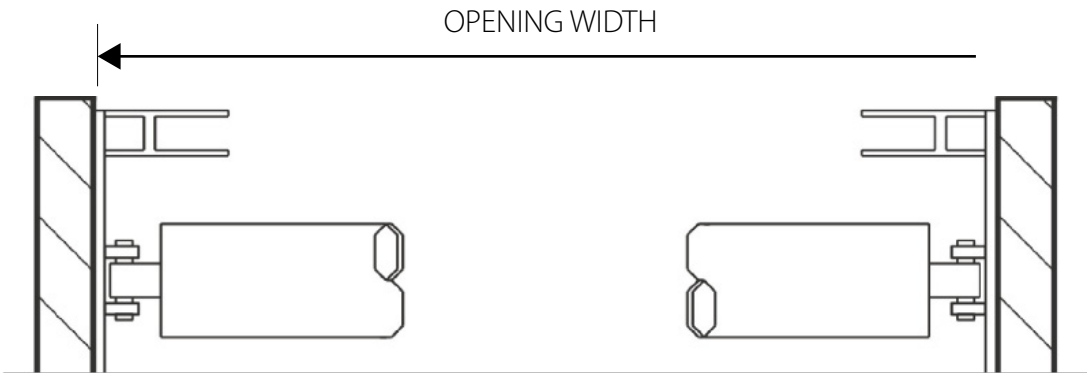
Installation Around an Opening

This installation arrangement tends to be the most common. You may be aware of it as 'face fix'.



Installation Within an Opening

This installation arrangement tends to be less common than installations around an opening. You may be aware of it as a 'reveal fix'.



02. PREPARE THE OPENING

Check:

i. Structure is sound/even & can carry the weight of the shutter and suitable to take the appropriate fixings. The strength of the fixings must be enough to support a minimum weight of 25kg per square metre of the roller shutter. Be aware that this is a dynamic loading.

ii. No obstacles in fitting footprint e.g. no sharp objects, pipes, cables, bumps etc. sticking out from the pillars, lintel or header to twist the guides, distort the box or catch on the curtain

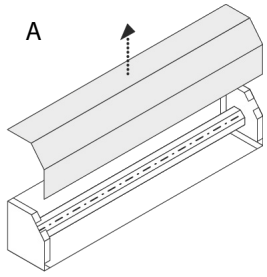
iii. If necessary install a sub-frame to ensure secure, flush and level fixing. If the surfaceis not level, a sub-frame may be required. Painted timber can be used or as an alternative, 25/50 x 50mm aluminium packers can be used.

iv. Floor or window sill is flat/level.

03. FITTING THE GUIDES AND BOX ASSEMBLY

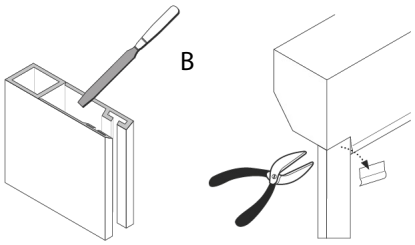
All our shutters can be installed by fitting the guides and box assembly to the structure first. Once this has been completed, please go to the relevant page based on the shutter's operation.

i. If a 45° box cover has been supplied, remove it from the box (A).



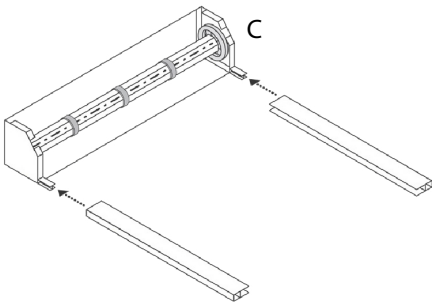
ii. File the top of the guides at an angle to create the optimum lead in to the curtain. If the shutter is being face fitted, remove the lip from the box back which overlaps the guide rails (B).

iii. Locate the guide rails. If the shutter has been supplied with a locking bottom slat, ensure that the locking slots on the guides are at the bottom and slide these onto the lugs protruding from the box assembly (C). **FITTERS' TIP:** To help protect the lugs from snapping off, drill and rivet the guides to the back of the lugs, using a 4mm drill and rivet.



iv. Carefully move the complete unit to the opening, ensuring that the lugs do not snap off the box ends.

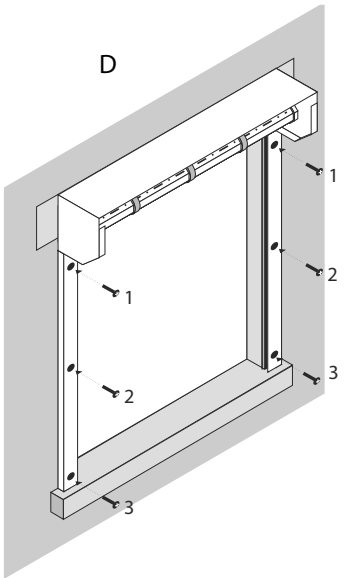
NOTE: If the shutter is too large to be lifted up as one unit, offer one guide up at a time and fix to the structure, then fix the shutter box.



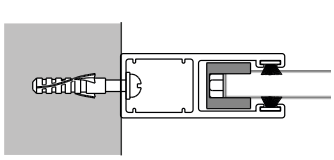
v. Offer the shutter to the opening and centralise. Be careful to not force the endplates or fascia too tight to any obstructions above as this may cause the peg to snap on the endplate. use a spirit level to ensure the box is horizontally level and that both guides are vertical. When confident that everything is level, mark the guide locations and fixing points. Make sure to measure the opening to ensure the sizes correspond with shutter delivered.

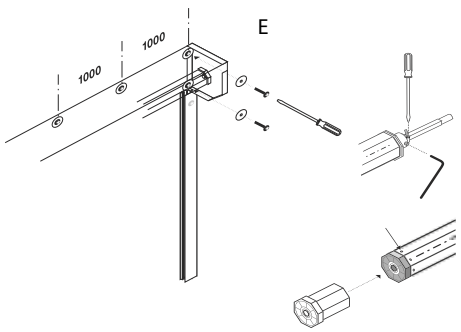
vi. Remove the film from the top of the box. Starting with the top holes, fix the guide rails ensuring that they are vertical. First, create a 7mm hole that penetrates through and then enlargen the front hole to 13mm (D).

vii. To fix the box, please use the recommended fixings and space the fixings 1000mm apart. Ensure all fixings are counter sunk to prevent them from coming into contact with the curtain. Once the box has been fixed, check the dummy end and ensure that it is securely located within the axle, making sure to tighten the grub screws (E).



NOTE: If the shutter is to be installed in the reveal, the guides should be fixed in the same way as Drawing F. The shutter assembly should then be fixed through the top of the box, directly into the lintel.





04. MOTORISED OPERATION INSTALLATION

For motorised commercial shutters, the following parts are needed to complete the installation:

General Parts	Operation Specific Parts
i. Assembled shutter box	i. Override handle (1 per shutter if manual override)
ii. Pair of guide rails	ii. Override handle clip
iii. Assembled curtain	iii. Control Unit
iv. Accessory box	iv. Switch/Remote

INSTALLING THE CURTAIN & SETTING MOTOR LIMITS

If you have the standard motor, press and hold down on the control switch until the barrell stops rotating. This is the bottom limit.

NOTE: Do not wire two or more motors to a single pole switch, as it may cause the motor to malfunction.

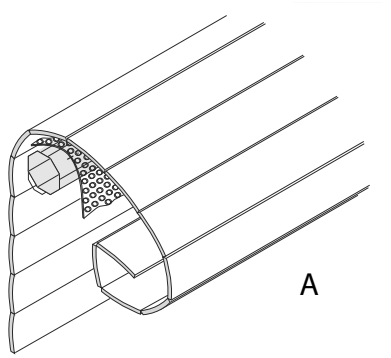
i. To prevent the risk of material damage when loading the curtain, it is important to cover the axle with bubble wrap or a similar material (A).

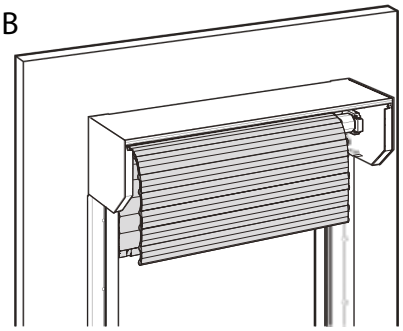
ii. With the axle covered, lift the curtain and start to slowly feed the bottom slat and half the curtain over the axle and slowly down into the guide mouths (B).

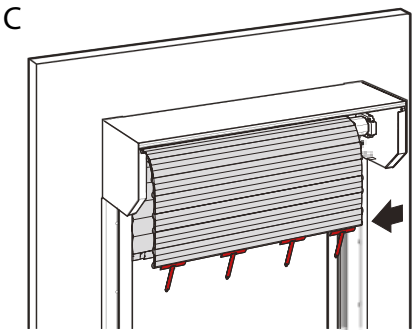
iii. Slide all of the attachment straps supplied onto the top slat of the curtain and evenly distribute them over the full width of the curtain (C). If collar attachments have been supplied, one should be fitted each side on all attachment straps.

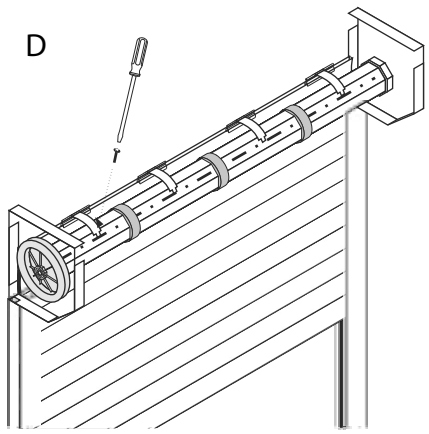
iv. Place blocks on the floor under the bottom slat to raise the curtain off the ground. This will make it easier to attach the curtain to the axle.

v. Connect the attachment strips to the axle using the 4mm rivets supplied. If collars have been supplied, fix these using the 4.2mm x 13mm Pozi Pan fixings (D).









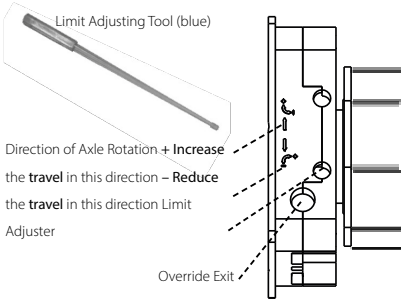
05. SETTING MOTOR LIMITS

SETTING THE LIMITS ON A STANDARD MOTOR

Notice that the motor will perform a greater number of revolutions if the screw-limits are turned towards the +, whilst the number of revolutions are decreased when the screws are turned in the – direction.

As the door is already closed, the **Closing Limit** will be the first to be set.

i. Using the buttons on the front of the receiver push the open (top) button. Let the barrel rotate a couple of times and push the stop (central) button. Push the close (bottom) button to see how far the door closes **Note: be ready to push the stop incase the door closes too far.**
ii. Check pictures above to determine which screw you need to turn to adjust the closing limit. Using the plastic limit adjuster, turn the limit screw the correct way. Only turn the screw one turn each time. To test the door, repeat step 1.
iii. For the door to be in the correct closing position the lathes need to be stacked on top of each other and the auto-locks tight **Note: be carefully not to set the limit down to far as this can snap the auto-locks**
iv. Once this is done you can test the closing limit is set correctly by opening the door a foot off the ground and bring it back down.



Opening Limit

i. Using the buttons on the front of the receiver push the open (top) button.

Note: be ready to push the stop as the door may open past the guides.

If this happens, bring the door down 2 foot from the opening and turn correct limit screw towards – 2 full rotations. Test the door, always being ready to push the stop button. Repeat until opening limit is found.

ALWAYS LEAVE THE BOTTOM SLAT IN THE GUIDES WHEN THE "UP" LIMIT IS SET. IF THE "UP" LIMIT IS SET TOO HIGH, THE DOOR WILL NOT RUN.

Note: if the safety edge upgrade has been ordered please refer to steps in instructions found with the control unit.

NOTE: The motor unit has an in-built thermal trip that will activate once the motor unit reaches a predetermined temperature. Repetitive usage during the fine adjustment process can cause the motor to cut out. Please wait approximately fifteen minutes for the unit to return to normal operating mode.

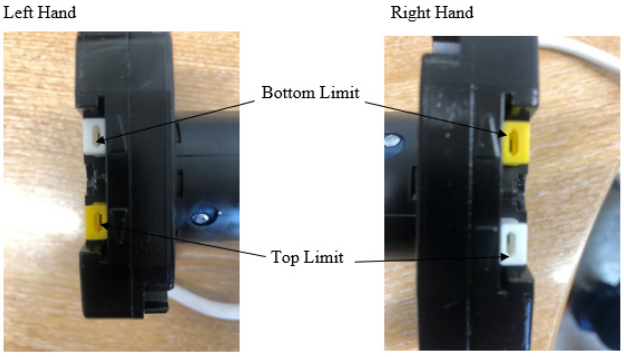
SETTING THE LIMITS ON A SOMFY 4 CORE MOTOR

As the door is already closed, the Closing Limit will be the first to be set.

i. Using the control box buttons send to the fully closed position and push in the corresponding button to set the bottom limit. **Note: you can use the manual winder to fine tune the limit if necessary.**

Note: be carefully not to set the limit down to far as this can snap the auto-locks

ii. Once this is done you can test the closing limit is set correctly by opening the door a foot off the ground and bring it back down.



Opening Limit

i. Using the buttons on the front of the receiver push the open button. When in the desired location push the corresponding button to set the up limit. **Note: you can use the manual winder to fine tune the limit if necessary.**

Note: be ready to push the stop as the door may open past the guides. If this happened use the manual winder to rewind back into the guides.

NOTE: The motor unit has an in-built thermal trip that will activate once the motor unit reaches a predetermined temperature. Repetitive usage during the fine adjustment process can cause the motor to cut out. Please wait approximately fifteen minutes for the unit to return to normal operating mode.

For further assistance setting the limits please visit our installation guides on our website and scroll down to the how to set limits section:

https://www.rollerdoors.net/installation-guides/

Altus RTS, Orea RTS & Sonesse 50 RTS
Programming

1 Select Channel

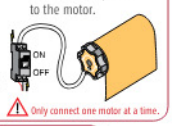
If you are using a multi channel remote, select the required channel. The channel must be selected prior to programming.

Continue to step 2...

2 Identify the correct motor mode

In order to identify which mode the motor is in, make sure that you pay attention to whether the product performs a shunt when power is applied.

Switch on the power to the motor.



Only connect one motor at a time.

3 Motor Mode

Did the product perform a shunt?

YES – Go to step 4
NO – Go to step 5

4 YES – Shunt

Press and hold simultaneously the Up and Down button. The product should shunt.

After the shunt proceed to step 10.

5 NO – Shunt

Press and hold simultaneously the Up and Down button. The product should shunt.

After the shunt continue to step 6.

6 Check the correct direction of rotation

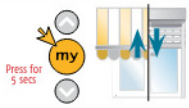
Press and hold the Down button. Does the product extend?

YES – The product extends while pressing the down button – Go to step 8

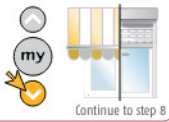
NO – The product retracts while pressing the down button – Continue to step 7

7 Reverse the direction of rotation

To reverse the direction of the motor, press and hold the Stop button until the product shunts.



Press and hold the Down button to test that the motor direction is correct.



Continue to step 8

All Telis RTS Transmitters, Centralis RTS, Chronis RTS.
Dry Contact Transmitters and 5 Channel RTS Transmitter (cannot be used to program).
Soliris/Eolis RTS Sensor, Sunis/Eolis 3D RTS Sensor (cannot be used to program).

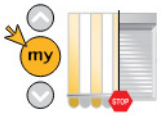
Altus RTS, Orea RTS & Sonesse 50 RTS
Programming

8 Record the Up limit position

Use the Up button to operate the product until it reaches the Up limit position.

Press and hold the Stop and Down buttons until the product starts to extend/lower.

Stop the product at the desired limit position (adjust with Up or Down if required).



9 Record the Down limit position

Press and hold the Stop and Up button until the product starts to close/retract.

The product will automatically close and stop.

Press and hold the Stop button until the product shunts to confirm the limit settings.

The limits have been recorded

10 Programming the RTS control to the motor

Press the program button on the RTS control until the product shunts.

Centralis RTS

OR

Telis RTS

Shunt = Control recorded ✔

Check functionality Complete ✔

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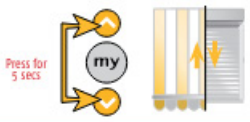
RTS Motors
Adjusting RTS Motor Limit Positions

NOTE: the following procedure will only work if the limit is accessible, otherwise please refer to erasing the motor memory on page 28.

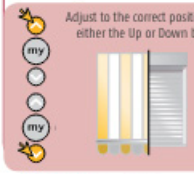
1 Adjustment of the lower limit position

Press the Down button and send the product to the existing lower limit position.

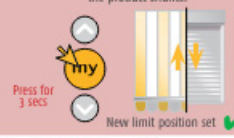
Press and hold the Up and Down buttons until the product Shunts.



Adjust to the correct position using either the Up or Down button.



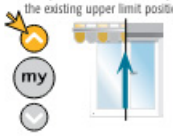
Press and hold the Stop button until the product Shunts.



New limit position set ✔

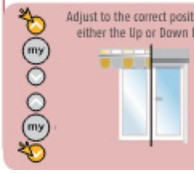
2 Adjustment of the upper limit position – Not applicable for Orea

Press the Up button and send the product to the existing upper limit position.



Press and hold the Up and Down buttons until the product Shunts.

Adjust to the correct position using either the Up or Down button.



Press and hold the Stop button until the product Shunts.

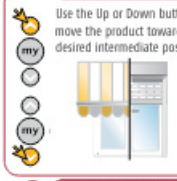
New limit position set ✔

RTS Motors
"MY" Position Programming

NOTE: the following procedure will only work after programming has been completed.

1 Setting an intermediate position

Use the Up or Down button to move the product towards the desired intermediate position.



Stop the product at the desired intermediate position.

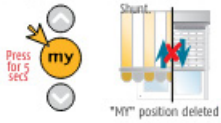
Press and hold the Stop button until the product Shunts.

"MY" position set ✔

2 Deleting an Intermediate position

Send the product to the intermediate position by pressing the Stop button

When the product has reached the intermediate position and stopped, press and hold the Stop button until there is a Shunt.



"MY" position deleted ✔

3 Using the Intermediate position

The product must be stationary, but can be at any position.. Press briefly the Stop button to initiate the intermediate or 'my' position. The product will automatically move to the IP or 'my' position and stop.

SOMFY TIP

If an intermediate position has been set and the awning is controlled by a Somfy RTS sun sensor, then the awning will only extend to the IP position. Remove the IP function if the end user wants the awning to fully extend.

IP = ✔

IP = ✘

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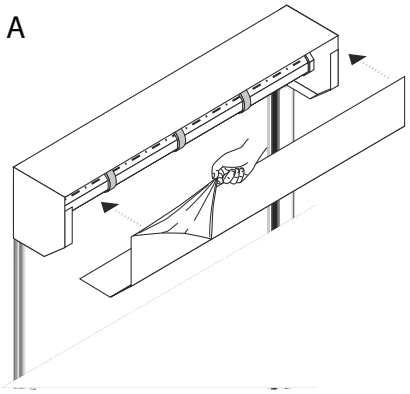
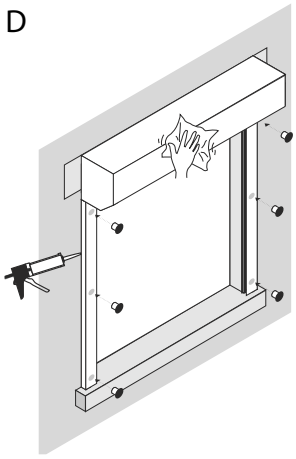
COMPLETING THE INSTALLATION

i. Carefully remove any protective film that may remain on on the box and guides. If the shutter is externally fitted the box lid should be fastened using 4mm rivets which closely match in colour (A).
ii. Test the operation of the shutter to ensure that the shutter moves freely up and down in the guide rails. At this stage, test whether the shutter stops at the fully open and fully closed presets. If a remote control has been supplied, this should also be tested at this point (B).
iii. Fit cover caps over the fixing holes in the guide rails (if applicable), then mastic round the edges of the shutter and give it a final clean and wipe down (C & D).

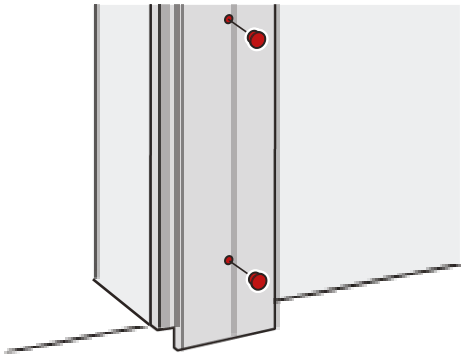
A



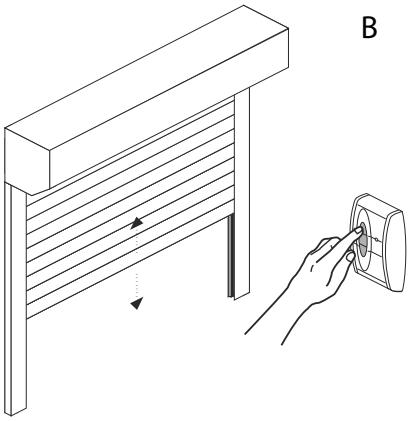
D



C



B



06. FINAL CHECKS

i. Force test the shutter.

ii. Ensure the shaft collars are secure and correctly fitted, and do not inhibit travel/rigid parts.

iii. Check operation of safety edge.

iv. Check operation of the transmitter.

v. Lubricate bearings.

vi. Check grub screws in the bearings are secure.

vii. Check jubilee clips are fitted to the shaft and are secure.

viii. Check end plates are secured to the building structure.

ix. Check smooth operation of the shutter leaf.

x. Check all mechanical fixings are secure.

xi. Check the canopy hood/box/motor cover (if installed) is securely attached.

xii. Check motor cable is securely attached away from any moving parts.

xiii. Check operation of manual override mechanism.

xiv. Check operation of manual override electrical interlock – hand chain only.

xv. Check shutter travel limits.

xvi. Check correct operation of control system.

xvii. Check correct operation of safety systems fitted.

07. OPERATING INFORMATION

Upon completion of the installation the end user/operator of the shutter must be trained how to operate the product safely paying particular attention to the following points:

- The shutter should only be operated when in view.
- The operator must ensure there are no objects or persons in the opening before and during operation.
- The end user must read and follow the instructions given in the operating and maintenance instructions.
- In the event of a malfunction the end user should follow the instructions given in the operating and maintenance instructions and if required contact the installer.
- Their responsibility in law to maintain a regular and appropriate service and maintenance schedule.

08. RECOMMENDED SERVICE PERIOD

The recommended service and maintenance period is dependant on the frequency of use and the environment in which the door is installed. It is recommended to have the shutter serviced once every 12 months or at 1,000 cycle, whichever arrives first. One cycle is a full open and close sequence.

09. WARRANTY INFORMATION

The warranty for this product is only granted if:

- The installation is carried out by competent installation engineers following these instructions.
- Only original parts are used.
- No additional objects are attached to the shutter.
- Regular and appropriate maintenance checks are performed.
- For further details on the product warranties please see our terms and conditions.
- To comply with the Construction Products Directive, all products have been durability tested for a minimum of 11,000 cycles.

10. TECHNICAL ASSISTANCE

If you require any on site technical assistance including repair or maintenance queries please call **01785 290770**
or email **sales@rollerdoors.net**