SeceuroDoor EVO
Tubular Traditional Shutter

SeceuroDoor Tubular Traditional Installation Instructions

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

Sequence of Installation & Contents

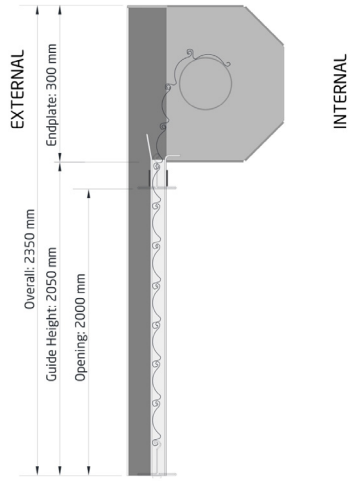
01. Pre-Installation & Component Check
02. Installation Options
03. Prepare the Opening
04. Fit Flag Assemblies
05. Fit Axle Assembly
06. Load Curtain
07. Set Top Motor Limit
08. Attach Guide Channels
09. Set Bottom Motor Limit
10. Fit Bullet Locks (optional)
11. Fit Hood (optional)
12. Connect Hold-to-Run Switch (optional)
13. Final Checks
14. Operating Information
15. Recommended Service Period
16. Warranty Information
17. Technical Assistance

01. PRE-INSTALLATION & COMPONENT CHECK

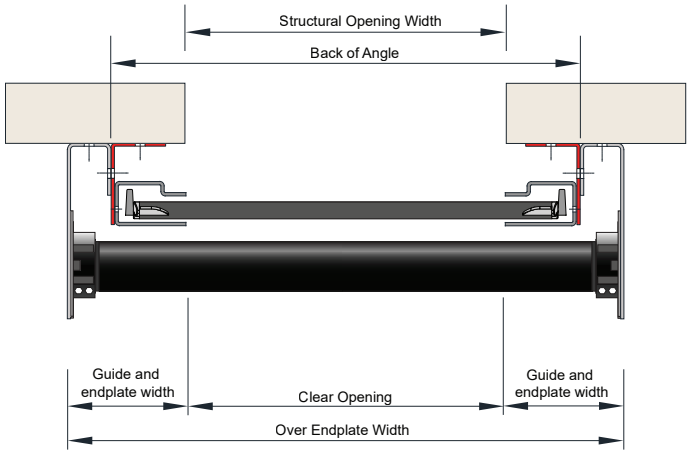
Check:

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

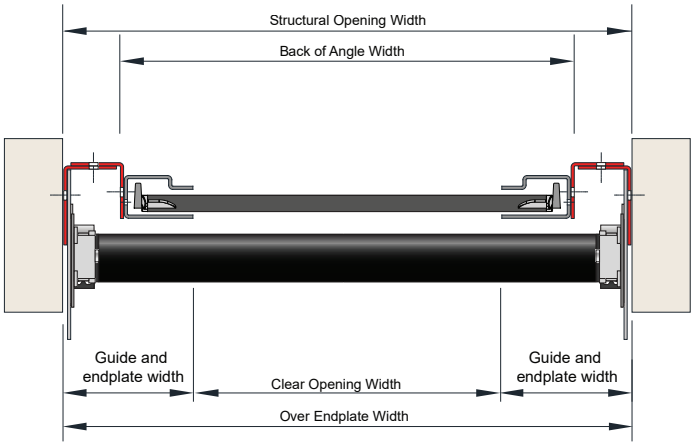
Do not proceed further with the installation unless you are sure that the door is the correct size, and all components are present.



Example Face Fit Assembly Drawing



Example Reveal Fit Assembly Drawing



Parts Common to Each Installation

01. 1 x Assembled axle assemby

02. 2 x Flag assemblies (angle, guides & end plates)

03. 2 x Adaptor plates

04. 2 x Fixing angles

05. 2 x Guide channels

06. Curtain

07. Accessory box

Parts Dependent on Configuration

08. Safety brake

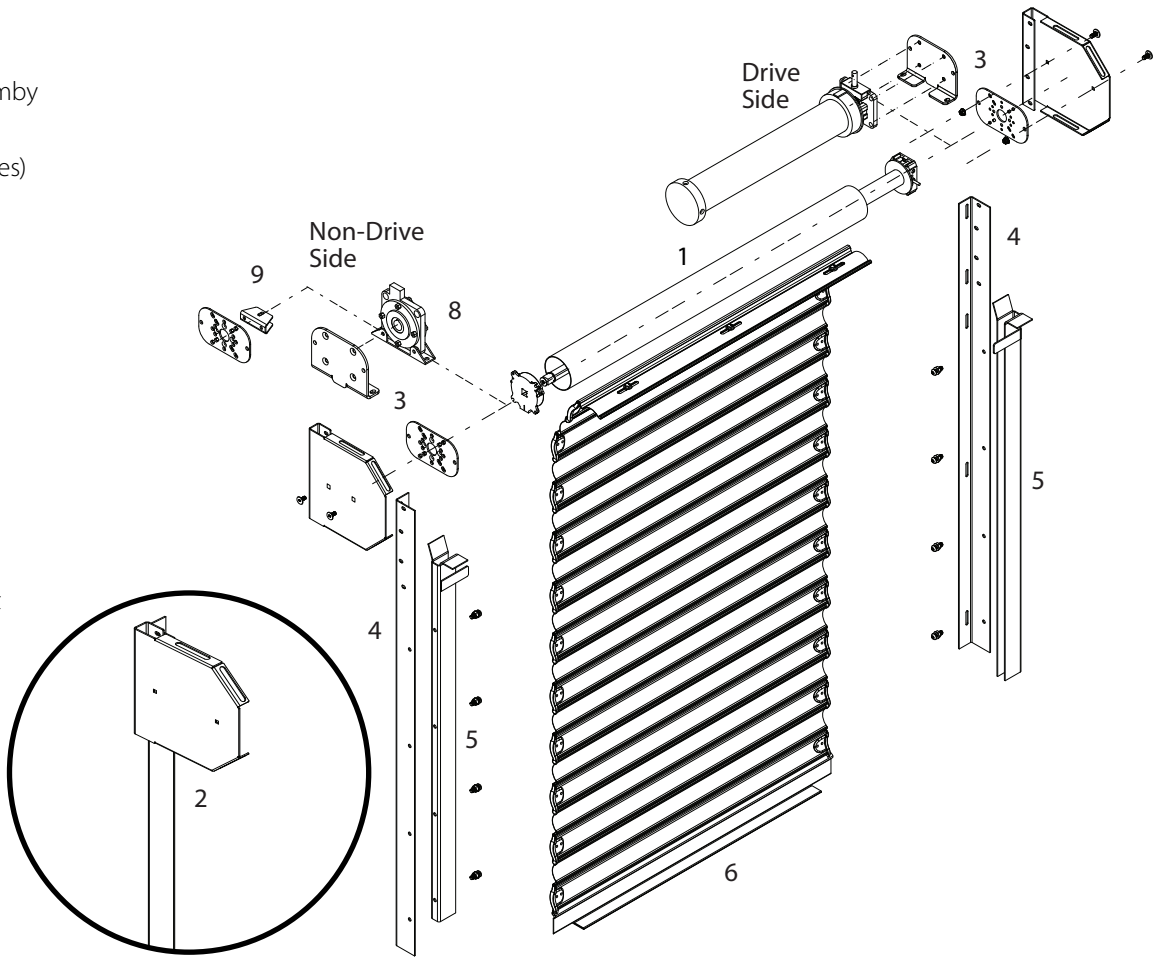
09. Non-safety brake bracket

10. Switch or control unit

Optional Extras

11. Fascia

12. Hood



Recommended Fixings (not supplied)

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

Structural Material	Minimum Fixings	Recommended Fixings for Larger/High Usage Doors
Timber Frame	• No. 12 x 2" screw	• M10 x 100 hex heads
Block or Brickwork	• No. 12 x 2" screws with appropriate plugs	• M10 x 100 anchor bolts
Steelwork	• No. 5 x 25mm Tec screws • No.10 x 1" pozi pan head screws • M8 x 10mm hex head or dome head bolts which must be tapped into the steelwork (minimum 30-40 required) • M8 bolts and nuts	• M10 - length dependent on structural thickness

Recommended Tools for Assembly

- 10mm & 22mm masonry bits up to 400mm long (or wall thickness)
- 3, 4, 2, 5, 10 & 13mm metal drill bits
- Screw drivers and wire strippers
- 4mm, 5mm & 6mm allen keys
- Pliers
- Tin snips
- Metal files
- Spirit level
- Straight edge (square)
- Plastic hammer
- Torque wrench up to 25nm
- Tape measure
- Marker pen
- 3 core & 4 core cables
- Junction box
- 3 amp plug
- Motor test lead
- Hacksaw
- Pop riveter with 4mm rivets
- Dust sheets
- Step ladders
- Workmate bench

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.

Site Installation Safety Guidance

This checklist is not exhaustive, but a guidance on the minimum amount of safety levels required. Your company needs to comply with relevant safety directives to ensure your and others' safety. Modern building sites are safe places to work and they will simply not allow an installation to proceed if they are not in agreement with your company's proposal for installation.

Relevant work site induction procedures are complete. Permits to work have been obtained as required.

- Method statements and risk assessments have been read and understood.
- Appropriate Personal Protective Equipment (PPE) to be used.
- Site specific hazards are understood and mitigated.
- Work area cordoned as appropriate.
- Other trades or persons in area to be briefed as to ongoing installation.
- Where appropriate, use motorised work platforms for working at height (scissor lifter).
- Keep work area tidy and free from trip hazards, etc.

Risk Assessment

Prior to any installation, commencing a full and adequate risk assessment completed by sufficiently trained personnel must be completed. This should consider such aspects as:

- Foreseeable misuse of the door in situ.
- Structural failure in normal use.
- Structural failure due to misuse.
- Electrocution and fire from electrical faults.
- Control system and safety device failure.
- Crush at main closing edge (although the operating forces characteristic is declared within the CE/ UK CA mark and declaration of performance, the door should be force tested referencing EN 12445 & EN 12453 prior to leaving site).
- Shear and draw in at moving part interfaces.
- Vehicle impacting door.
- Door impacting vehicles.
- Trip hazards at guide rails / photocell posts.
- Corrosion and wear or tear causing failure.

This list is not full and should only serve as a guideline; every installation requires a risk assessment specific to that site/product.

Conformity and UKCA Marking

To comply with the Machinery Directive both the shutter and the motor and controller used in the installation must have a Declaration of Performance from the manufacturer.

- On completion of the installation the installer must provide a Declaration of Conformity and apply a CE or UKCA mark giving details of the installations to the shutter/motor and controller combination, which is now classed as a machine.
- The installer must issue to the customer a Declaration of Conformity, operating and maintenance instructions on completion of the installation.
- The installer must hold copies of both the Declaration of Performance and the Declaration of Conformity on a technical file for inspection by the relevant authorities.
- If any of the above requirements are not fulfilled, the installation is illegal.

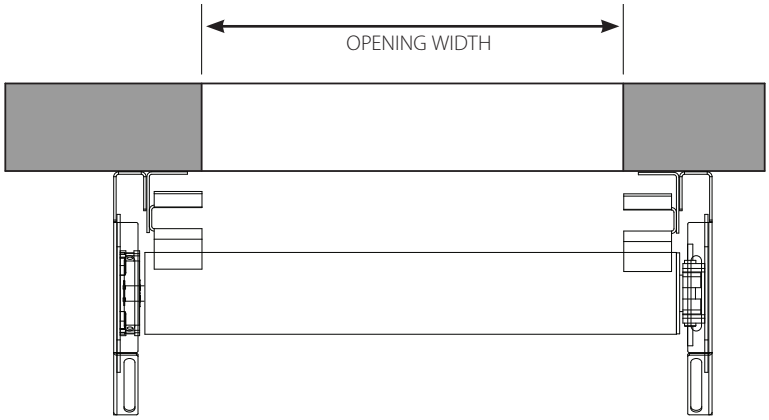
Please ensure for your own safety and peace of mind that whoever installs your electric motor and controller is both willing and able to fulfil these requirements; if they are not – do not use them. As a member of the DHF we CAN and WILL install your motor and controller safely and legally.

Installation Criteria

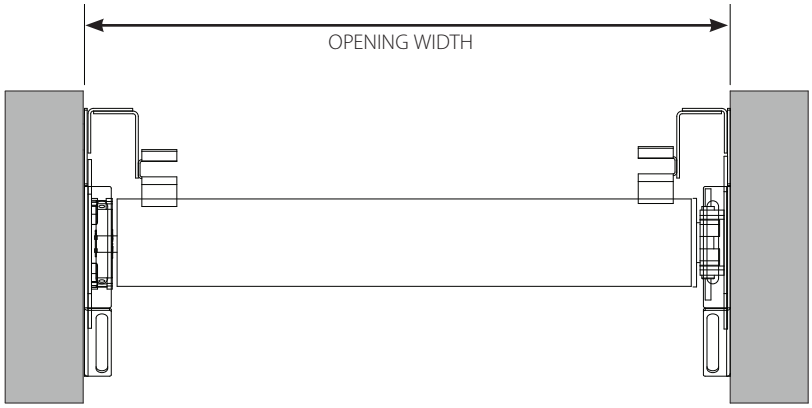
The structure of the opening must be adequate to take the weight of the door and suitable to take the appropriate fixings. The strength of the fixings must be enough to support a minimum weight of 25kg per square metre of the roller shutters. Be aware that this is a dynamic loading.

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

Face Fitting



Reveal Fitting



03. PREPARE THE OPENING

Check:

i. Structure is sound/even & can carry the weight of the door 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.

ii. The width of the opening - top, middle and bottom.

iii. 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 fascia or catch on the curtain

iv. Floor is flat/level.

If necessary install a sub-frame to ensure secure, flush and level fixing.

04. FIT FLAG ASSEMBLIES

FACE FITTING

Fit First Flag Assembly

Note: The position of the angles around the opening is the most critical part of the installation, as it determines whether the curtain will fit without fiction in to the channels.

i. Use the **Back of Angle width** from the Assembly Drawing to determine where the first flag guide will fit.

ii. Mark the position of the guide on the wall.

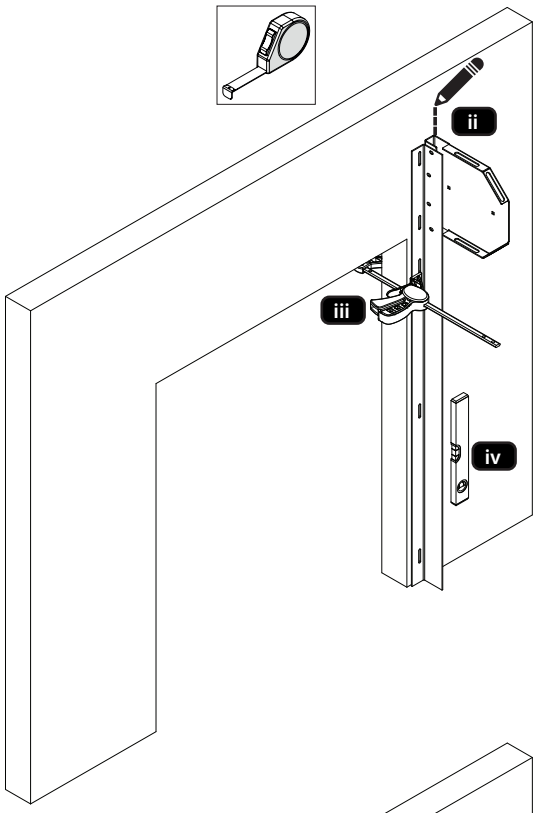
iii. Offer one flag assembly up to the opening and clamp in place.

Note: If the floor is sloping you must fit the higher side first.

iv. Ensure that the flag assembly is level down the side and across the lintel and it is in the correct position before drilling the guide as shown.

v. Fix the angle to the structure using the recommended fixings. Position the first fixing just below the end plate and the second fixing at the bottom of the angle.

vi. Fit the remaining fixings, ensuring the angle stays level.



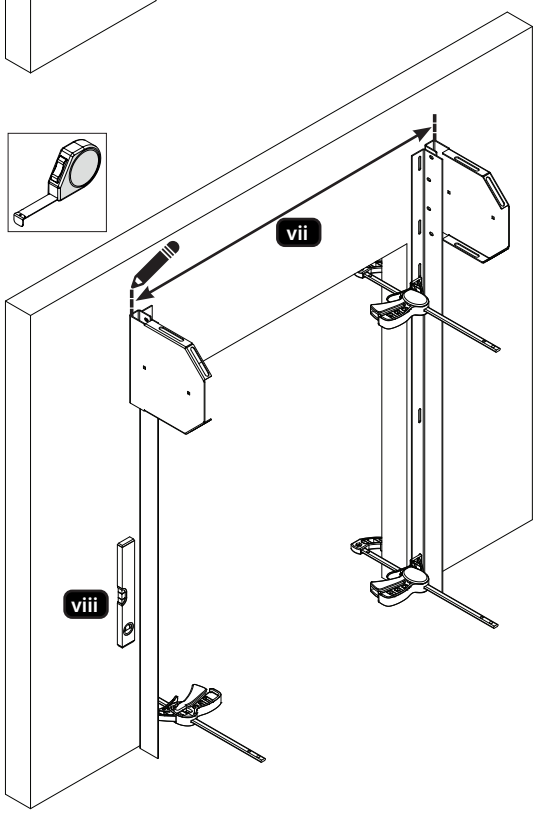
vi

Fit Second Flag Assembly

vii. Measure across for the second flag assembly and clamp in place top and bottom.

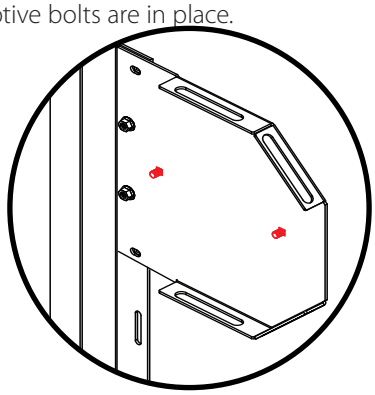
viii. Ensure the flag assembly is level down the side and across the lintel, before drilling the guide as shown.

ix. Fix the angle in place using the recommended fixings, following the fixing order as previous angle.

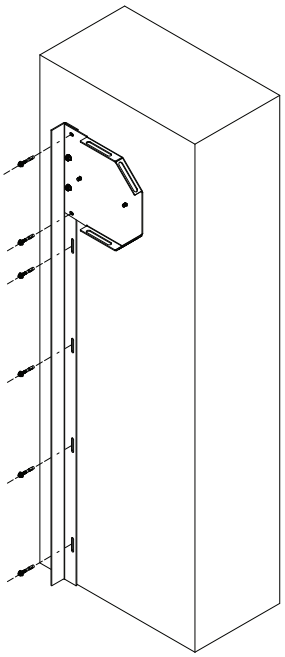


ix

i. Before fixing the flag guide ensure that the motor plate captive bolts are in place.

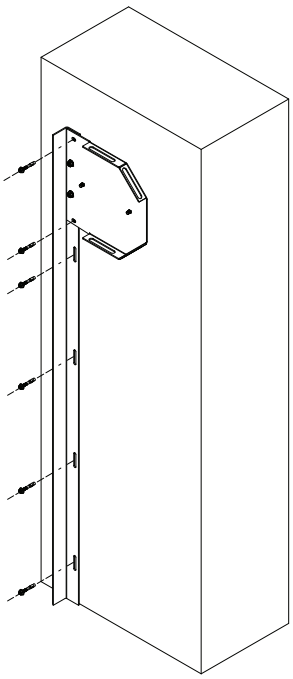


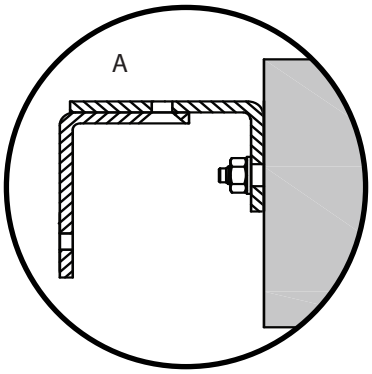
ii. Fit one of the main reveal angles to the structure using the recommended fixings. Fixing points are provided at the top and bottom of the end plates.



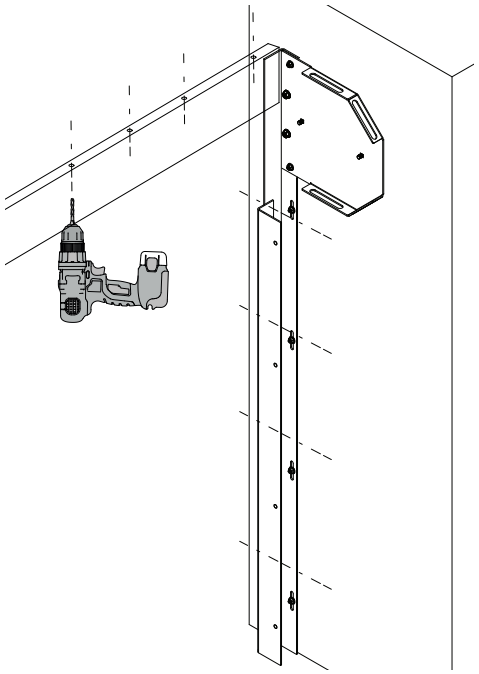
iii. Check the end plate bolt torque is 25 Nm.

iv. Position the product angle on the reveal angle as shown in **Drawing A**. Clamp and measure the width to match back of product angle measurement. Drill the reveal angle to match the holes on the product angle. Bolt the product angle to the reveal angle using the M8 fixings.

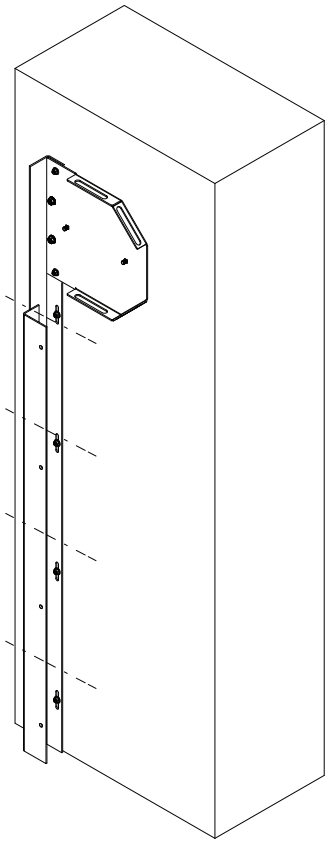




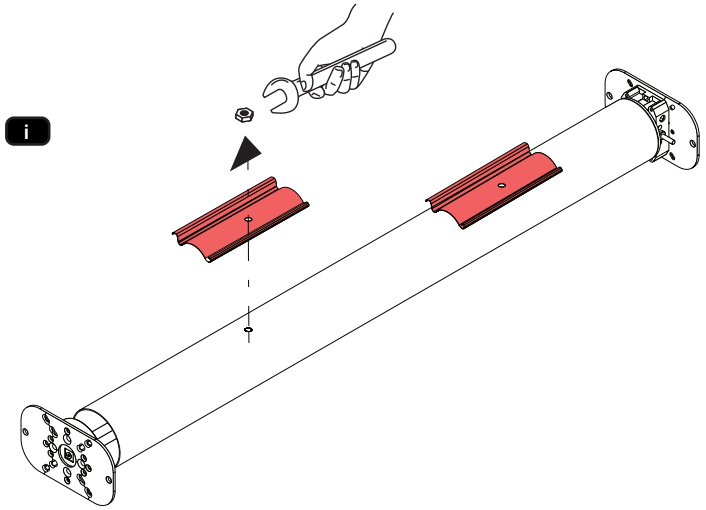
v. Fit the fascia before fitting the opposite end.



vi. Fix the remaining main fixing angle to the other side of the structure, bolt on the second angle then fix the second end plate to the second angle.



i. Prepare the axle by removing the attachment strips.



ii. Lift the axle into place, motor side first. Rest the axle on the end plate lip if possible.

iii. Slide the shaft bolt out.

iv. Fix the motor plate to the end plates using the two fixing holes. Secure with M8 nuts and M8 flange bolts.

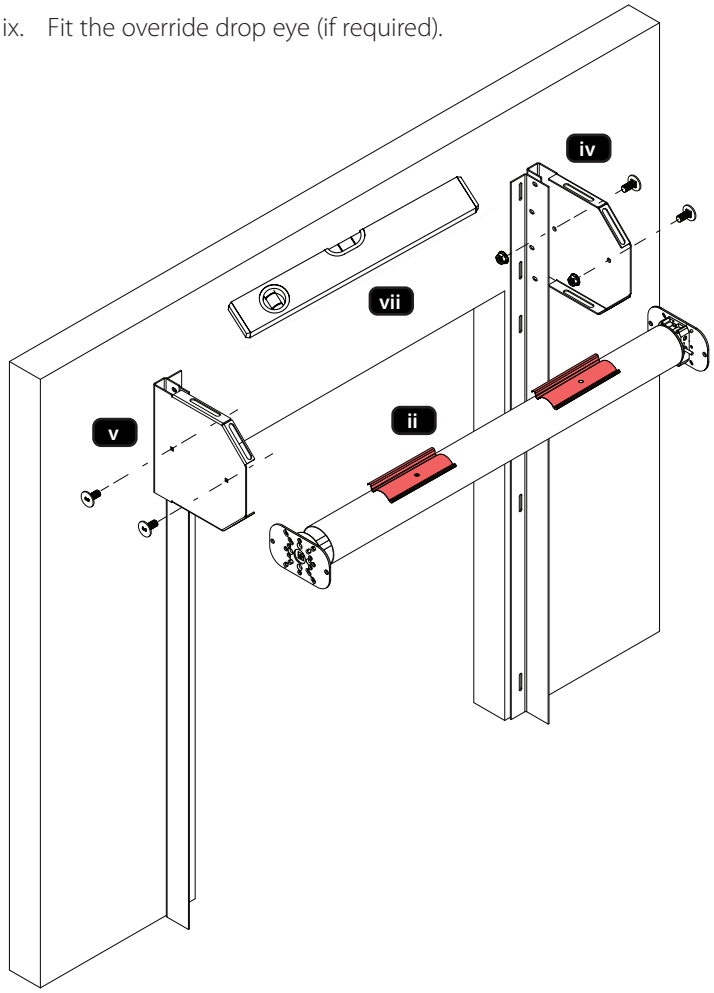
v. Secure the non-drive end to the end plates using M8 nuts and M8 flange bolts.

vi. Secure the dummy end shaft.

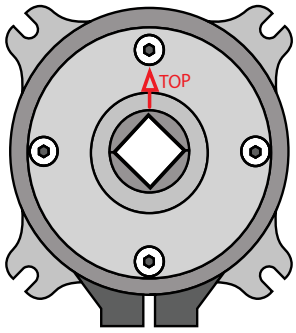
vii. Check that the axle is level.

viii. Secure the motor cable.

ix. Fit the override drop eye (if required).

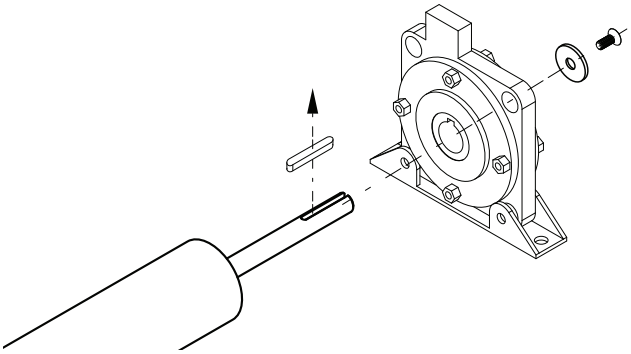


Note: If a small safety brake is used, ensure that it is fitted in the correct position.

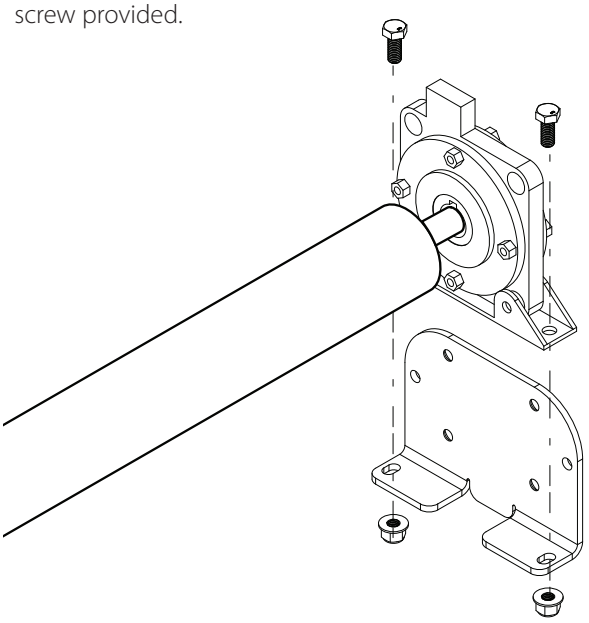


To fit a large safety brake (supplied in the accessory box):

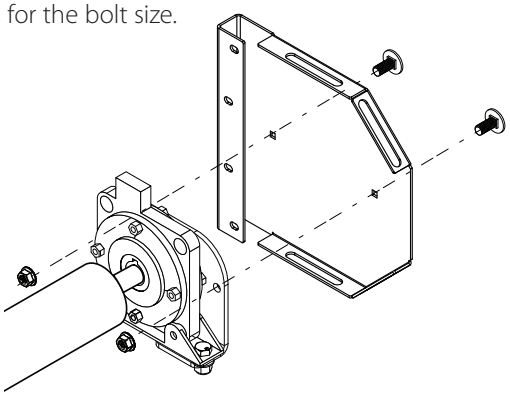
x. Slide the shaft with the keyway placed within the shaft, through the safety brake.



xi. Fix the saftety brake to the adapter with the washer and csk screw provided.



xii. Bolt the safety brake to the mounting plate using the nuts and bolts provided then tighten to the correct torque settings for the bolt size.



06. LOAD CURTAIN

i. Use a test lead to drive the motor to the down limit.

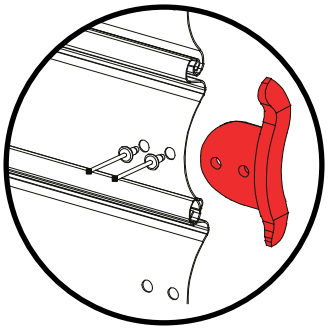
ii. Position the axle so that the bolts for the attachment strips can be easily accessed.

iii. Slide the attachment strips onto the top section of curtain.

Note: The curtain will be in bundles of approximately 25kg and clearly numbered from 1 (top) in order of attachment. The sections are rolled in their bundles so the top part is presented first.

iv. Lift the curtain onto the axle, ensuring that the curtain is centrally aligned. Secure the attachment strips using the fixings supplied.

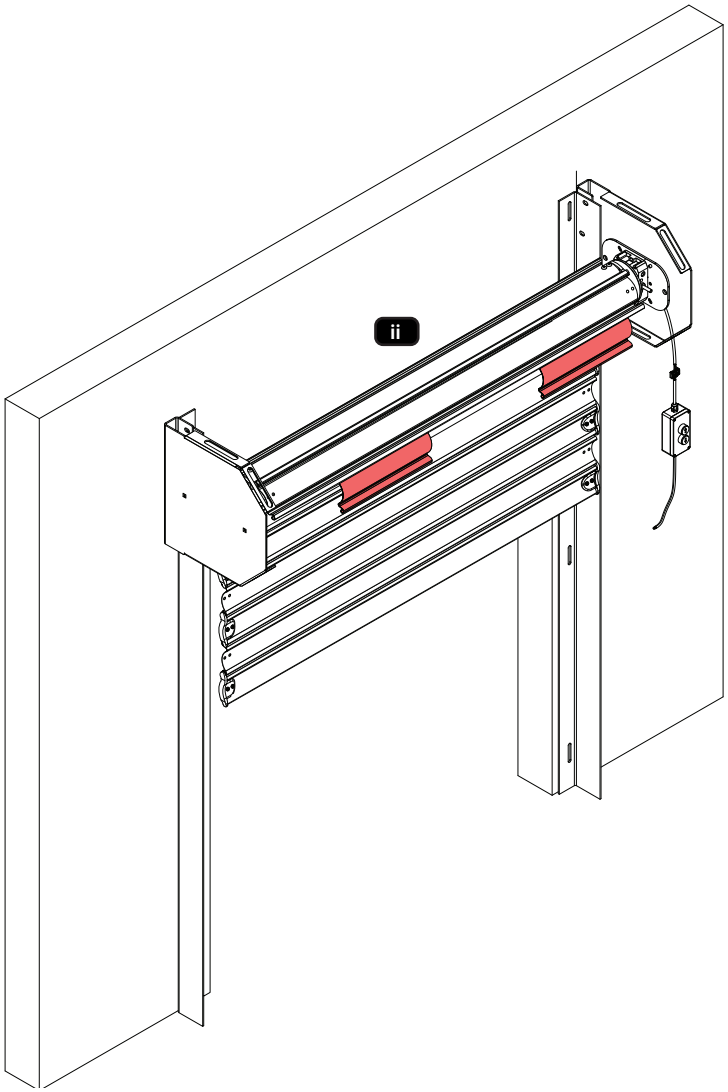
v. Install the remaining curtain sections. The bottom lath of each section will be end-locked. There will be enough flexibility in the lath and end-lock to pull it away from the lath to enable the next section of curtain to be slid on. It may help if a medium sized flat bladed screwdriver is used to carefully prise the end-lock clear of the lath. If this is done, ensure that the end lock is returned to its correct position.

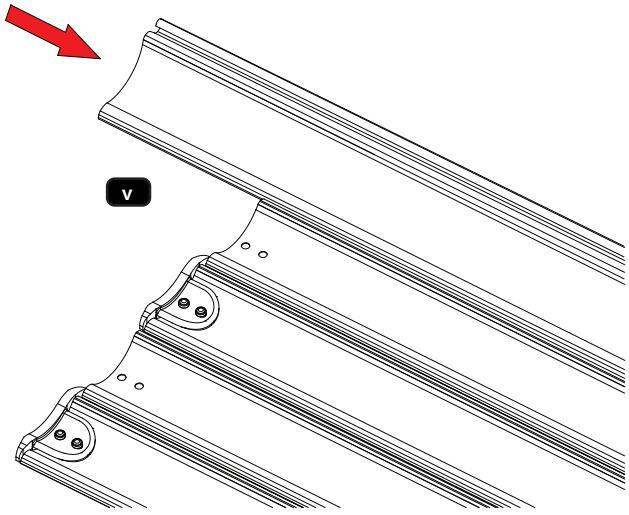


Note: Depending on the gauge of the lath, you may need to remove the end lock to allow the curtain to slide together. Additional rivets are supplied in the Accessory Bag to re-fit the end locks.

vi. This should be repeated until all of the curtain sections are attached, using the motor to lift curtain sections into place.

Note: Care should be taken if it is a windy day, as the curtain will act like a large sail.





07. SET TOP MOTOR LIMIT

Note: Incorrect setting of the limits risks damage to the motor, curtain and attachment devices.

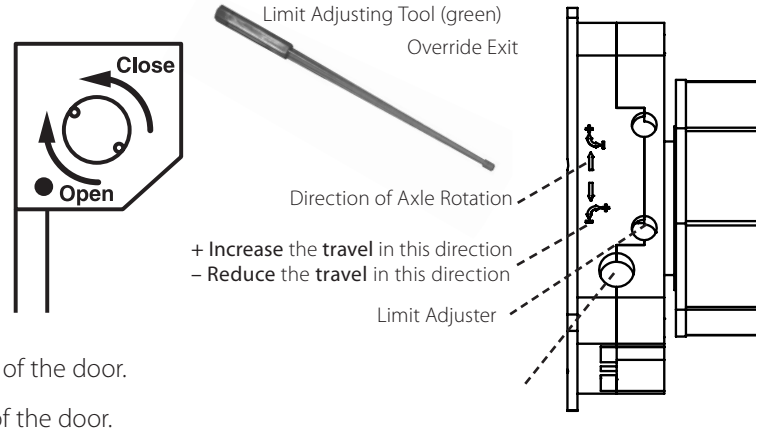
i. Use the test lead to send the door to the fully open position, ensuring the whole of the bottom lath is hanging within the guides.

ii. Set the top limit following the instructions for the relevant motor provided below.

SECEURODRIVE MOTOR

Which limit is up and which limit is down?

The up and down limit is determined using the direction arrows next to the limit adjusters and the direction of axle rotation to either close or open the door.



Open/Up Limit Setting

i. Use the limit adjusting tool to adjust the up limit of the door until the motor stops in the correct position.

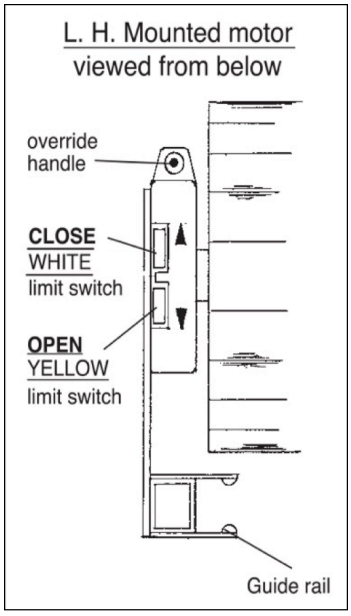
- Turn the up limit in the '**+**' direction to **increase** the **travel** of the door.
- Turn the up limit in the '**–**' direction to **reduce** the **travel** of the door.

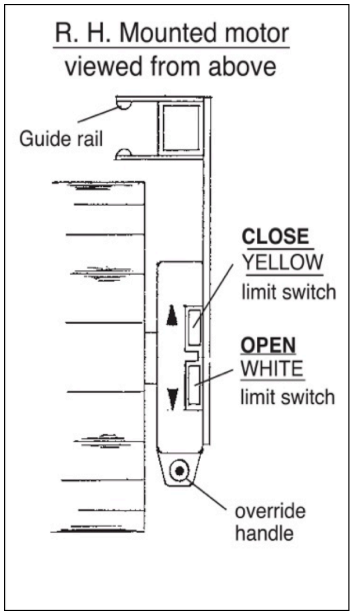
Note: Do not use a drill to adjust the limits.

SOMFY MOTOR

somfy®

Checking the Direction of Rotation of the Motor





i. Press simultaneously on the ^ and v buttons until the motors up and down movement occurs to enter motor adjustment mode.

Indicator light 1 flashes slowly.

ii. Press button ^ or v to check the motor's direction of rotation.

If the motor's direction of rotation is correct, move on to step **iii**.

If the direction of rotation is is incorrect, press the stop button until the motors up and down movement occurs, check the motor's direction of rotation again and move on to step **iii** of the motor end limit setting procedure.

iii. If the motor end limits are already set, move on to step **viii** to exit motor adjustment mode.

If the motor end limits are not set, check that the motor is released: the two push-buttons should be pressed.

Note: The motor end limits can also be set with a setting tool. In this case, set the motor end limits with the cable then move on to step **viii** to exit motor adjustment mode.

iv. Press ^ button to position the garage door in the upper position.

Adjust the upper position with buttons ^ and v.

v. Press simultaneously on the ^ and v buttons or press the (prog) button until the motor's up and down movement occurs to exit motor adjustment mode.

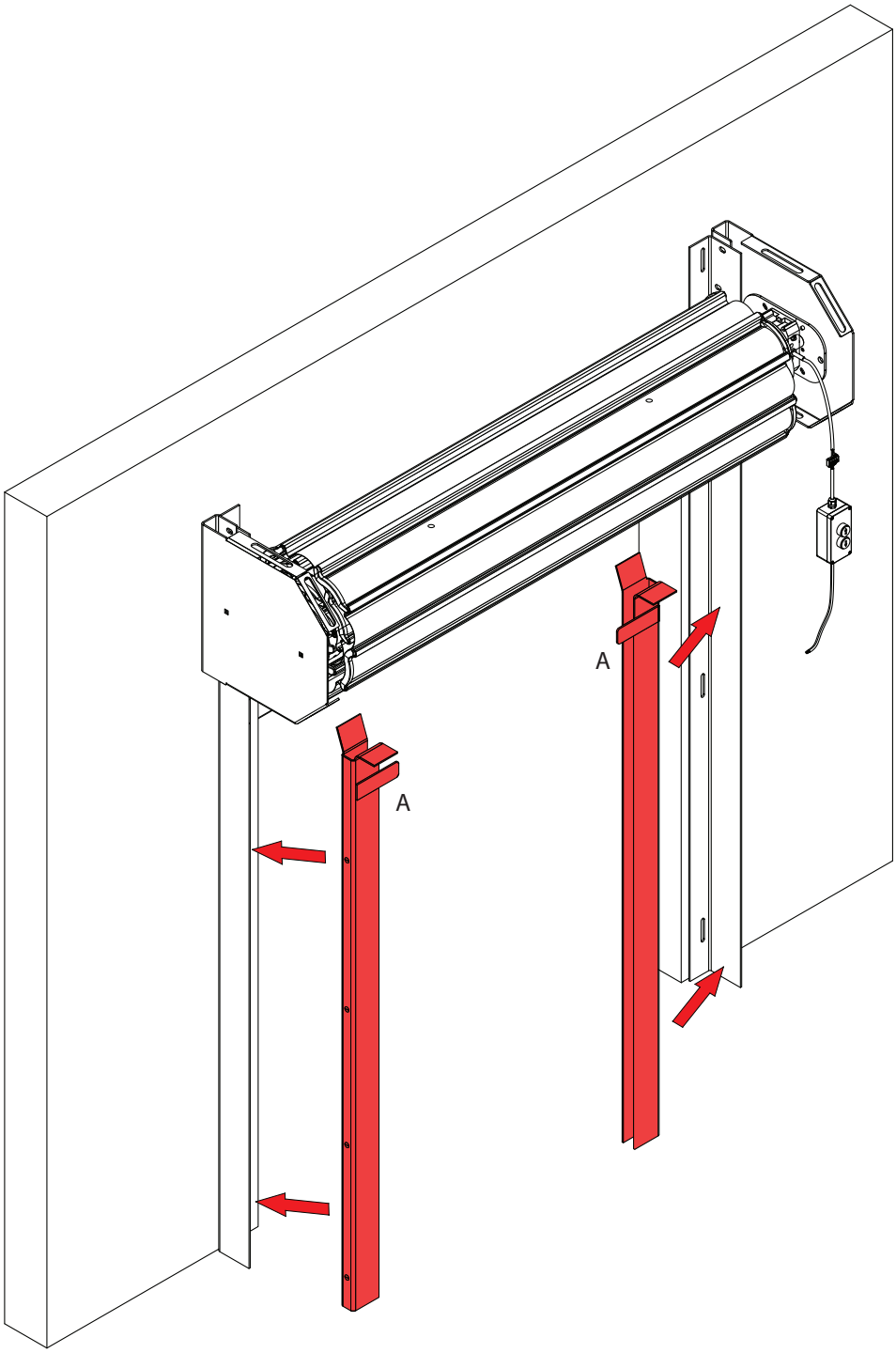
Indicator light 1 goes out.

08. ATTACH GUIDE CHANNELS

i. With the door in the fully open position, offer up the guide channels to the channel angles.

The channels may have welded on **tab-stops (A)** which will need to be guided over the bottom rail.

ii. Loosely fit all the channel screws and nuts to allow optimal positioning of channels before fully tightening.



09. SET BOTTOM MOTOR LIMIT

ii. Carefully close the door using the motor test lead so that the bottom rail is on the floor and the door is firmly in the closed position.

iii. Set the bottom limit following the instructions for the relevant motor provided below.

SECEURODRIVE MOTOR

iii. Use the limit adjusting tool to adjust the down limit of the door until the motor stops in the correct position.

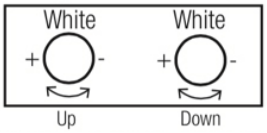
- Turn the down limit in the **'+'** direction to **increase** the **travel** of the door.
- Turn the down limit in the **'–'** direction to **reduce** the **travel** of the door.

Note: Do not use a drill to adjust the limits.

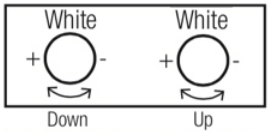
Check the Limit Positions

- Run the motor in both directions until the limit switches cut out the motor travel.
- Carry out any fine adjustments. One turn of the adjustment screw corresponds to approximately 70° turn of the axle.
- Do not adjust past this position as this will impose excessive loads on the mechanism.
- This motor is fitted with a thermal trip; this stops the motor from overheating.
- Be aware that excessive running of the door may cause the thermal trip to operate, if this happens; please wait 20 minutes before trying to operate the door again.

Right Hand Motor
Right adjuster is the down limit
Left adjuster is the up limit



Left Hand Motor
Right adjuster is the up limit
Left adjuster is the down limit



SOMFY MOTOR

iii. Check that the motor is released: the two push-buttons should be pressed.

Note: The motor end limits can also be set with a setting tool. In this case, set the motor end limits with the cable then move on to step **viii** to exit motor adjustment mode.

iv. Press the motor's low end limit push-button.

v. Press simultaneously on the ^ and v buttons or press the (prog) button until the motor's up and down movement occurs to exit motor adjustment mode.

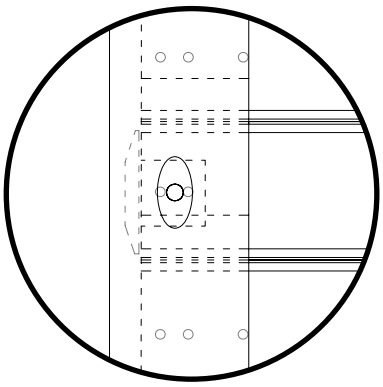
Indicator light 1 goes out.

10. FIT BULLET LOCKS (OPTIONAL)

i. Mark the curtain through the bullet lock housing.

ii. Lift the curtain out of the guide channels then drill a 13mm hole where you marked the curtain, through the end lock.

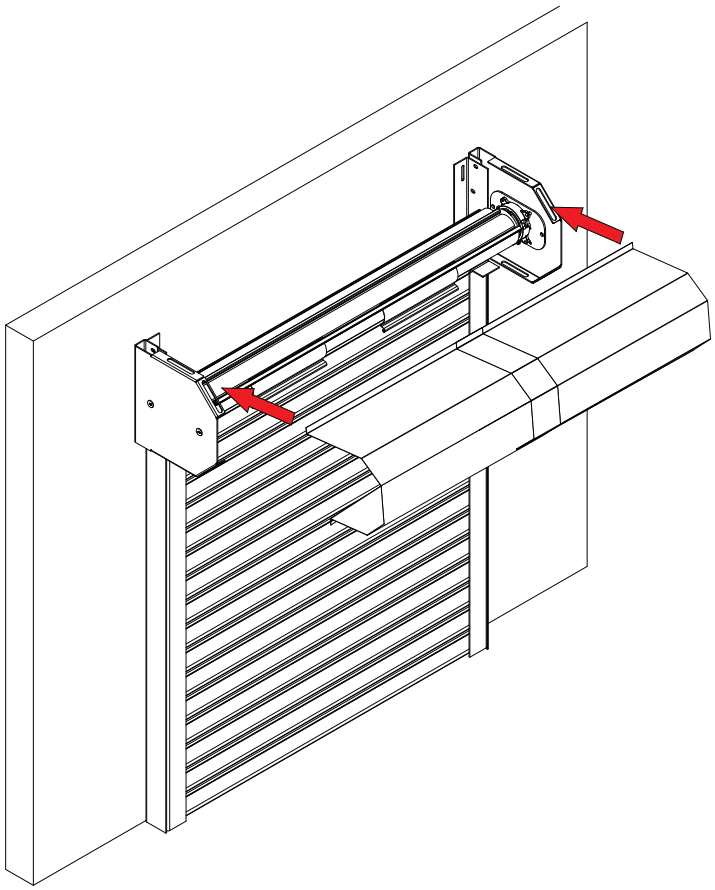
iii. Lower the curtain back into the guide channels and test to ensure that the pins can be easily located and removed.



i. With the door in the down position, fit the hood to the end plates.

ii. Secure the hood with Tec screws or 5mm rivets, position near corners to avoid fixings clashing with the curtain.

iii. Fix the hood to the structure across the top, ensuring the hood does not sag in the middle.



Larger Doors

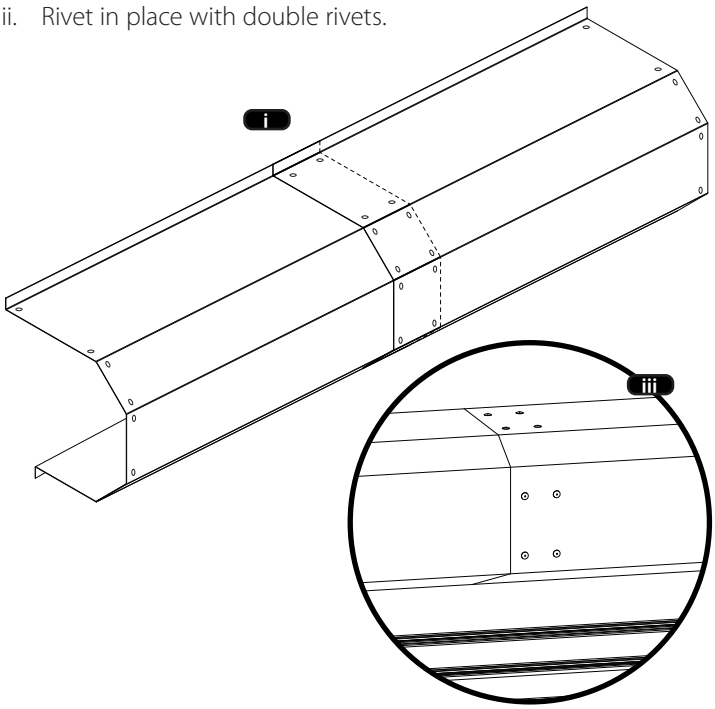
Note: Hoods are supplied in sections for doors over 3m wide and must be fixed together before fitting:

i. a) **Two-Part Hoods** Lay out the male and female sections to the overall end plate size.

b) **Three-Part Hoods** Lay out the two male sections to the overall end plate size. Put the female section across the top so that it is equally positioned across both male sections.

ii. Check the total width is the same as the overall shutter width.

iii. Rivet in place with double rivets.



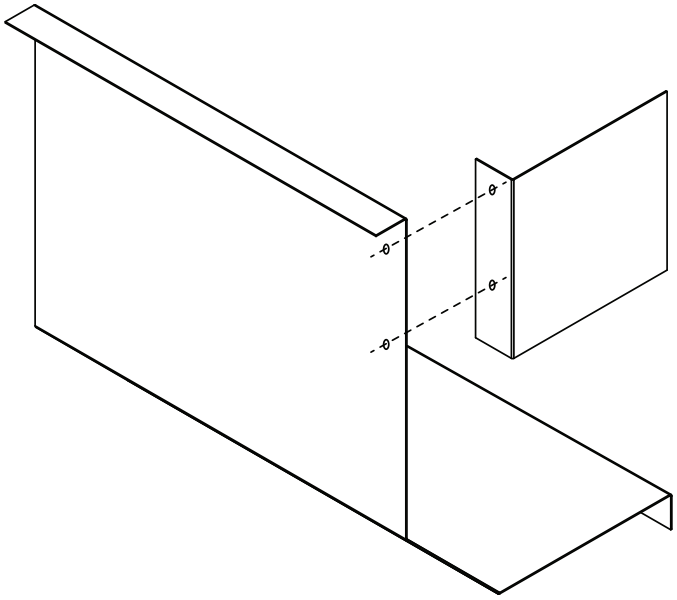
Two-Sided Hoods

Note: Infill plates can be found in the accessory box.

i. Align the infill plates to the upper corner at each end.

ii. Position the infill sleeves over the end plates to fill the gap on the upper chamfer.

iii. Drill a minium of two fixing holes and pop rivet the infull plates to the main hood.



12. CONNECT HOLD-TO-RUN SWITCH (OPTIONAL)

- The switch box must be mounted in sight of the shutter unless a saftey device is installed.
- You must ensure that you incorporate drip loops in your wiring before connecting any control device and the motor, to prevent water from running down the cables and into the control device or motor. Failure to do this will invalidate the warranty. For further details refer to separate wiring instructions.

Note: If fitting two or more switches to the same door or multiple motors are operated from one switch, a Group Command control box will be required to prevent accidental damage to the motor. Only the key switch is suitable for external fitment.

Electrical Requirements

- All connections should be made in accordance with The latest version of the IET Wiring Regulations is BS 7671:2018+A2:2022
- A 5 amp fuse is required for fused mains supply.
- Cable requirements: mains supply cable: 3 core 1.5 sq mm; motor cable: 4 core 1.5 sq mm.
- There is a surge of current each time the door is operated, therefore switches used in conjunction with any of the motors should have contacts rated at a minimum of 16 amps to ensure trouble-free operation.

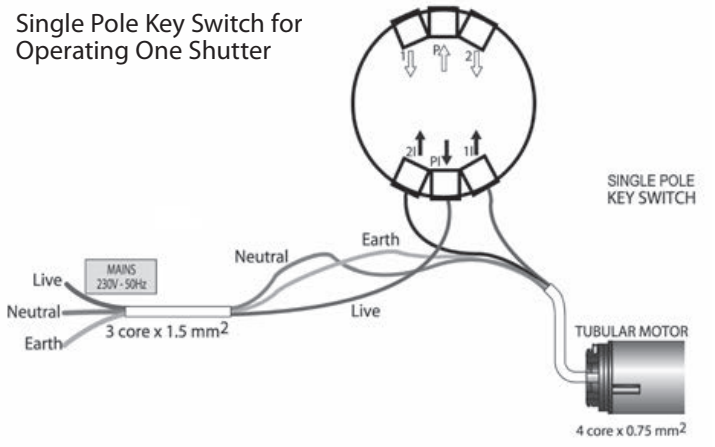
Switching Requirements

- Disconnect power to the motor before undertaking any work.
- Only one motor to be attached to a single pole switch.
- Safety measures must be provided when doors are operated from out of sight of the main switch.

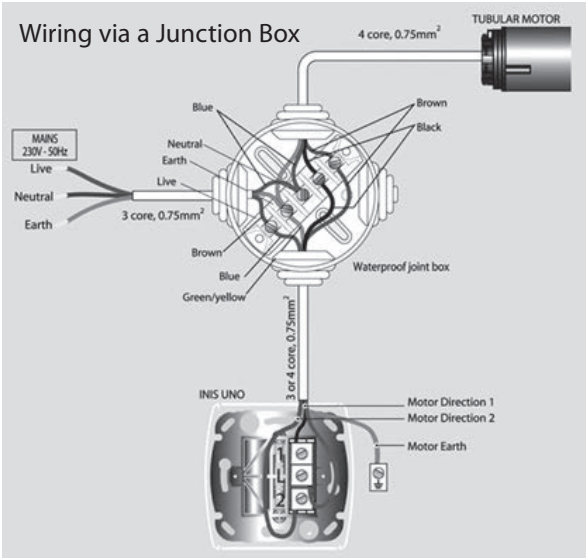
Only approved momentary switches may be used on door installations, otherwise all warranties will be made null and void. Surface mounted switches are supplied as standard.

SINGLE POLE SWITCH *FOR OPERATING ONE SHUTTER*

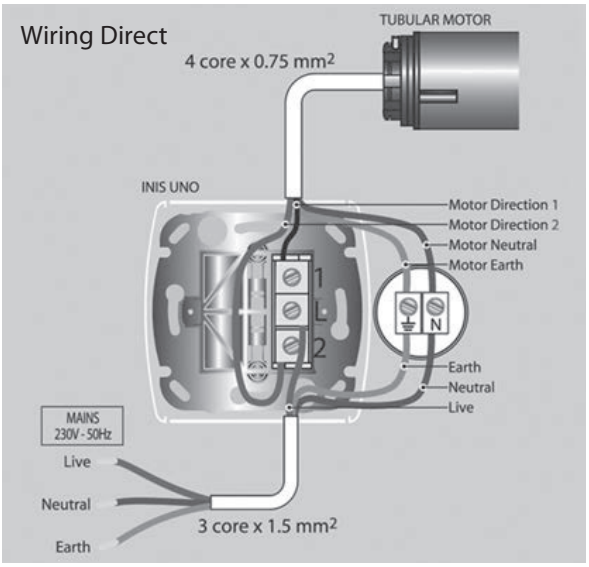
Single Pole Key Switch for Operating One Shutter



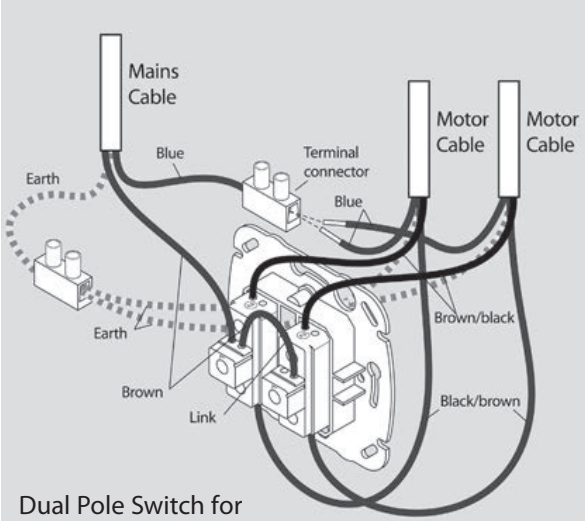
Wiring via a Junction Box



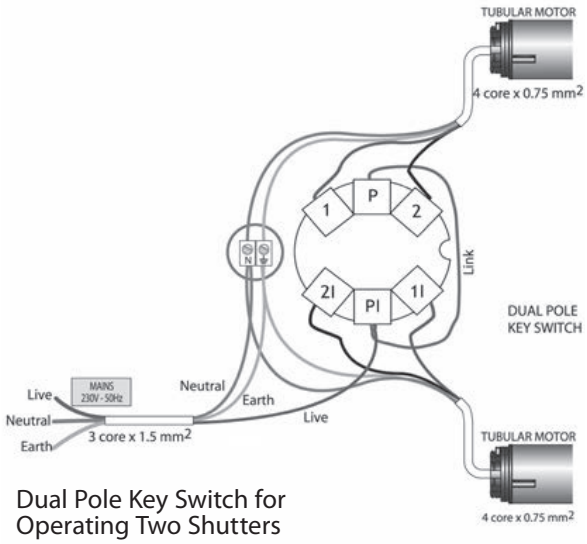
Wiring Direct



DUAL POLE SWITCH *FOR OPERATING TWO SHUTTERS SIMULTANEOUSLY*



Dual Pole Switch for Operating Two Shutters



Dual Pole Key Switch for Operating Two Shutters

TROUBLESHOOTING

Fault	Cause	Solution
The door/shutter fails to operate when the button is pressed/key is turned.	1. There has been a power failure. 2. The wrong direction has been selected on the control. 3. The thermal trip in the motor may have activated if the door has been operated several times recently.	1. Wait for power to come back on or operate the door/shutter with the manual override, if installed. 2. Select the correct direction. 3. Allow the motor to cool for approximately 30 minutes before attemtping to operate the door/shutter again.
The door/shutter stops before fully opening or closing, or fails to stop when reaching its final open or closed position.	The limits in the motor have failed to operate or may not have been set correctly.	Contact your installer.

13. FINAL CHECKS

i. Force test the door.

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

iii. Check operation of safety edge (if applicable).

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 door leaf.

x. Check all mechanical fixings are secure to correct torque settings

xi. Check the canopy hood/fascia/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 door travel limits.

xvi. Check correct operation of control system.

xvii. Check correct operation of safety systems fitted.

Handover Procedure

It is intended that the whole machine is provided by SWS UK. Alternate motors will not meet the criteria within the declaration of performance, declaration of conformity or CE or UK CA mark and are therefore not legal. SWS UK will not provide a declaration of incorporation for the door without a motor.

- The customer/user must be adequately trained in the use and operation of the door.
- The maintenance schedule should be agreed with the user, they should understand this to ensure the door is serviced correctly.
- The operation and maintenance manual must be handed to the customer/user.

14. 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.

15. RECOMMENDED SERVICE PERIOD

The recommended service period for a shutter which will operate on average two cycles per day is once every 12 months. If the shutter will perform a greater number of cycles per day the service period should be shortened accordingly. One cycle is a full open and close sequence.

16. WARRANTY INFORMATION

The warranty for this product is only granted if:

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

17. TECHNICAL ASSISTANCE

If you require any on site technical assistance including repair or maintenance queries please call **01524 772400** or email **technical@swsuk.co.uk**.

Control unit set up instructions are provided in the control panel accessory box along with the control unit and you can also access them digitally using this QR code or link:

www.sws.co.uk/fitting-instructions