

ROLLER GARAGE DOOR

Installation instructions

Note: Due to ongoing development some of the information and procedures may not exactly correlate to the product received. If in doubt, please ask your supplier.

ALWAYS CHECK ON DELIVERY THAT THE ORDER DETAILS ARE CORRECT AND THE DOOR IS UNDAMAGED; AND ESPECIALLY BEFORE REMOVING ANY EXISTING DOORS.

SEQUENCE OF INSTALLATION

1. Pre-Installation and Component Check
2. Prepare the Opening
3. Prepare the Guide Rails
4. Fix Guide Rails & Axle Assembly
5. Tensioning the anti-fall back spring
6. Fit Emergency Overrides
7. Curtain Adjustment (reducing height/making repairs)
8. Install the Curtain in the Guides, Attach to Axle & Fit Stops
9. Curtain locking and setting motor limit switch
10. Commissioning
11. Repairing and dismantling instructions

ROLLER GARAGE DOOR COMPONENTS

1. REMOTE CONTROL UNIT
 2. MOTOR (fitted into axle)
 3. 70mm OCTAGONAL AXLE
 4. 4 or 5 Pairs COMPACT LOCKING COLLARS (fitted on axle)
 5. AXLE CAP or Spring (fitted into axle)
 6. R/H END PLATE
 7. 4 or 5 No. COMPACT LOCKING SPRINGS AND ATTACHMENT BRACKETS * (and hinge pins)
 8. 8 or 10 No. RETENTION CLIPS *
 9. L/H END PLATE
 10. GUIDE RAILS (UPH 75) 75mm or (UPH250) 90mm
 11. BRUSH INSERT (fitted to guide)
 12. CURTAIN
 13. END LOCKS (fitted to curtain)
 14. BOTTOM SLAT (fitted to curtain)
 15. RUBBER SEAL (fitted to bottom slat)
 16. OVERRIDE EYE *
 17. 6 No. M8 x 21mm PENNY WASHERS *
 18. 2 No. DOOR STOPS *
 19. 2 No. M6 NUTS (inserted in bottom slat for securing stops) *
 20. 10 No. 4mm x 8mm RIVETS * (for securing endlocks)
 21. 3 No. CABLE CLIPS *
 22. CRANK HANDLE CLIP *
- * Supplied in accessory pack.

CONTROLS & ACCESSORIES

23. CRANK HANDLE
24. 1 No. HAND TRANSMITTER & COVER

Guides, axle assembly and the crank handle will be wrapped together in one bubble wrapped parcel and strapped together. The curtain is individually packed. A separate accessories box is packed with the installation and end user instructions, the attachment/locking arms, the accessory pack and a box containing the electrical items.

Recommended Fixings (not supplied):

- 12 x 1" Self Tapping Screws for Steel
12 x 2 1/2" Countersunk Screws for Masonry and Wood

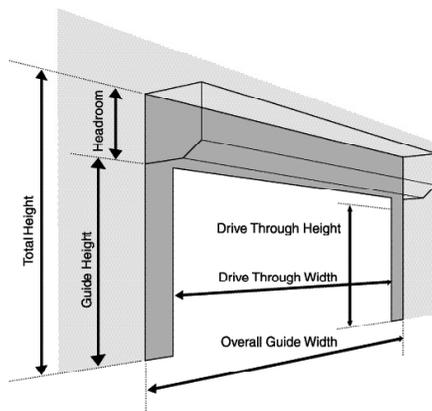
1. PRE-INSTALLATION AND COMPONENT CHECK:

Check:

- i) delivery note
- ii) order sheet
- iii) door dimensions/colour
- iv) opening dimensions \ clearances
- v) components

- vi) Check for any damage to the guide rails or the outside roll of the curtain

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

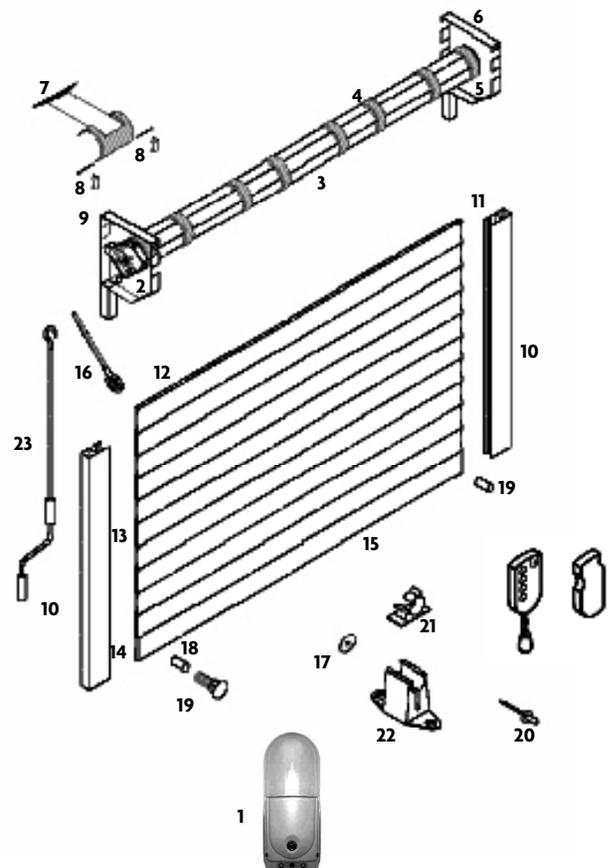


Widths

- Manufacturing Width =
Over Guide Width
- Drive Through Width = Over Guide Width
less 150mm for 75mm guides
- Curtain Width = Over Guide Width less
100mm excluding endlocks
- Axle Width = Over Guide Width less
79mm if spring on or 115mm without spring

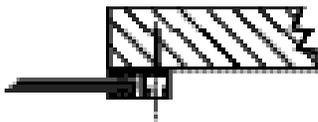
Heights

- Manufacturing Height =
Guide Height
- Total Height =
Guide Height + End Plate
- Headroom/End Plate up to 2.5m Guide
Height = 300mm
- Drive Through Height = Guide Height
less 100mm

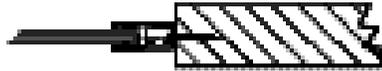


INSTALLATION OPTIONS

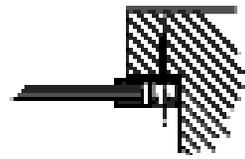
Internal Face Fit



Reveal Fit



Undersize Face Fit



Fitted to existing or New
Timber Frame

Combination of Face and Reveal Fit



SET BACK FACE FIT

2. PREPARE THE OPENING:

Check:

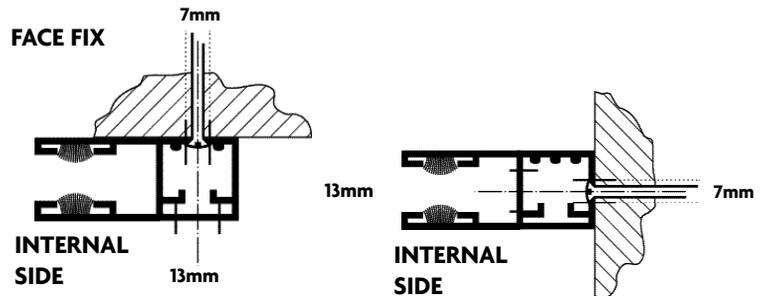
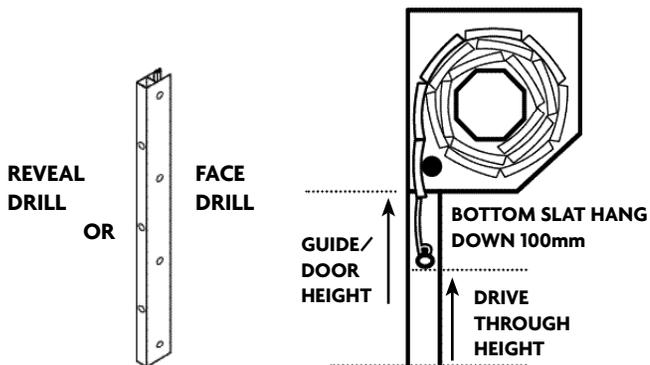
- structure is sound/even & can carry the weight of the door
- no obstacles in fitting footprint eg. no sharp objects, pipes, cables, bumps etc. sticking out from the pillars, lintel or header to twist the guides, distort the fascia or catch on the curtain
- floor is flat/level

If necessary install a sub-frame to ensure secure, flush and level fixing (Recommended minimum 70 X 70 PAR).

3. PREPARE THE GUIDE RAILS:

If the guides require cutting down refer to the 'Widths and Heights' information in section 1. If face fixing where possible set the guide height at least 100mm above the structural opening height to maximise drive through height. **The top of the guide rails have been opened up to aid the movement of the door into and out of the guide rails. If you need to reduce the length of the guide rails you must cut from the bottom of the guide rails.**

- position guides
- drill guide fixing holes (min 4) 7mm pilot hole 13mm outer hole, avoid mortar joints and edges of bricks etc.



N.B. Guides are handed. If cutting guides cut excess length from bottom of guide.

4. FIX GUIDE RAILS & AXLE ASSEMBLY

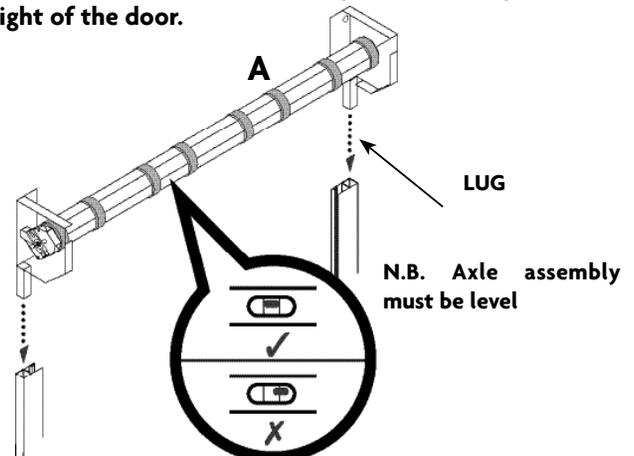


N.B. Before positioning check that there are no sharp objects or bumps sticking out from the pillars, lintel or header to twist the guides or that will catch the door during operation.

IF IN DOUBT PACK THE GUIDES AND END PLATES OUT BY AT LEAST 10mm.

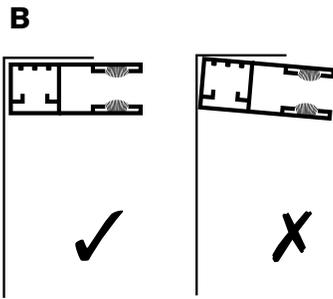
- slot end plate lugs into guides (see drawing A) remembering the guides are handed
- position guides and end plates against opening
- hold or prop securely the assembly in position
- drill fixing holes (min 4 in guides and 2 in each end plate)
- fix guides/end plates with minimum No. 12 x 2 1/2" countersunk screws (and plugs) to masonry/timber or 12 x 1" self tapping screws to steel.

N.B. Extreme care should be taken while manoeuvring the door into place to avoid the possibility of snapping the end plate lugs. It is imperative that fixings are put through the end plates into the wall as the aluminium lugs are not designed to carry the weight of the door.



Check:

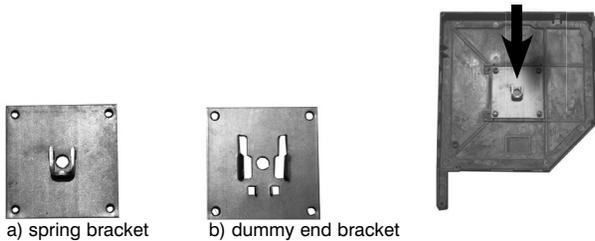
- i) back faces of guides and end plates are flush and untwisted (see drawing B)



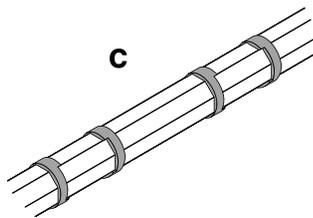
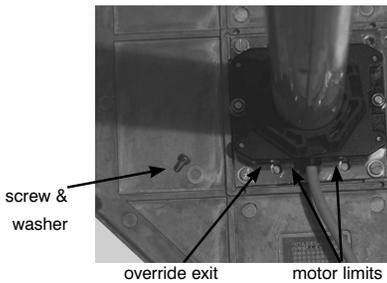
- ii) guides are vertical/parallel/same height

INSTALLATION OF THE AXLE ASSEMBLY

- i) Locate the dummy end or anti-fall back spring in to the bracket pre-fitted to the end plate.

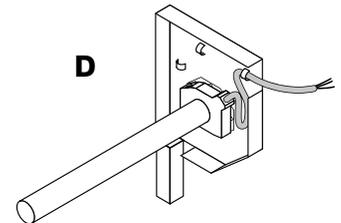


- ii) Fasten the motor end of the axle, using the bracket supplied, to the other end plate using the screws provided and the prepared tapped holes in the end plate.



- iii) Ensure that the motor limits are facing down and that the override hole is towards the chamfered front end of the end plate.
- iv) Ensure that the collars are the correct way around (see drawing C)
- v) SECURE MOTOR POWER LEAD WITH CABLE CLIPS SO THAT IT IS TIGHT AGAINST THE END PLATE – see drawing D.

You must ensure that you allow for a drip loop in the motor cable to prevent water from running down the cable and into the motor. Spare cable ties can be attached to the motor cable to act as drip loop to prevent water entering the motor.

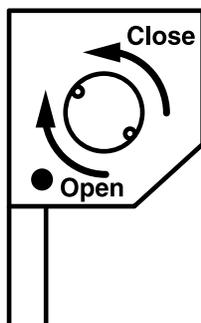


5. TENSIONING THE ANTI-FALL BACK SPRING:

If an anti-fall back spring has been supplied fitted in the axle you must now tension the spring as follows:

- 1) Connect the motor to either a test lead or the remote control.
- 2) Using either the test lead or remote control rotate the axle in the close direction (see drawing G and label on axle).

Drawing G

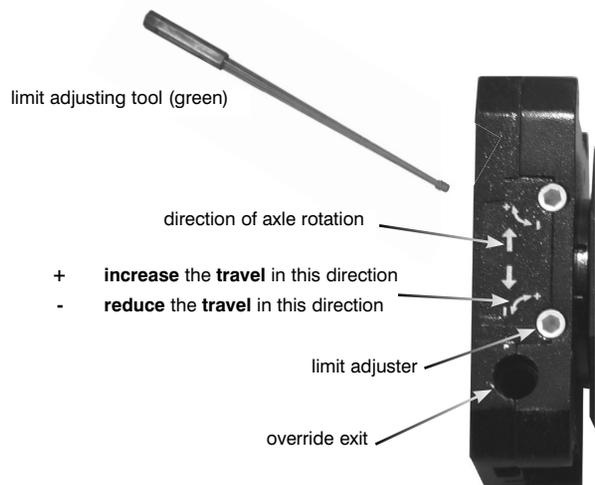


- 3) The number of turns required will be clearly stated on a label.
- 4) When complete the axle will be fully tensioned and will be

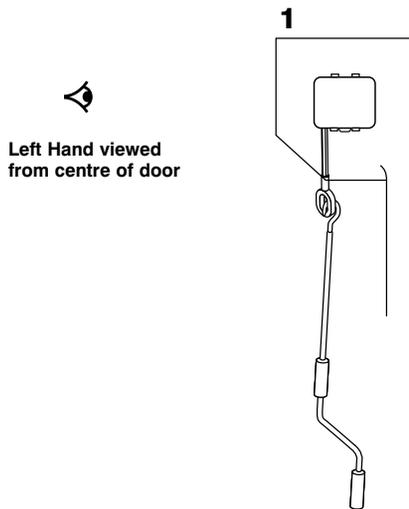
ready for installation and attachment of the curtain in the fully closed position.

- 5) If the axle stops before it has completed the required number of turns the lower limit may need adjusting to allow the correct number of turns to be applied.

UP arrow is door closing, DOWN arrow is door opening.



6. FITTING EMERGENCY OVERRIDES:



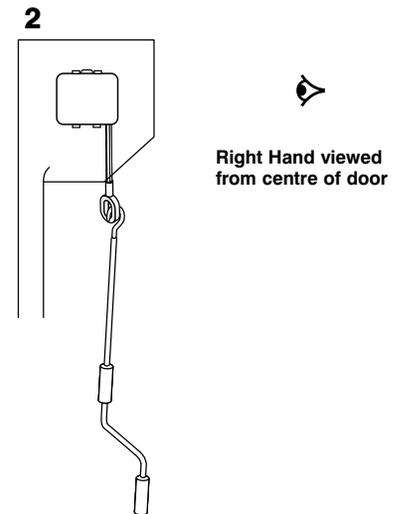
Left Hand viewed from centre of door

The motor limits are accessible from two sides. This enables the motor to always be fitted to the end plate so that limits are facing down and so that the override is towards the front of the end plate.

On a left hand door the motor cable will exit the motor vertically down.

On a right hand door the motor cable will exit the motor vertically up. You must ensure that you include a drip loop to prevent water from entering the motor.

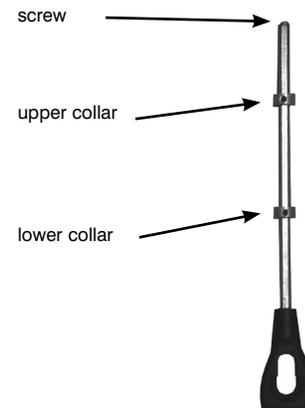
This will ensure that you do not have to cut down the roller plate to enable the override eye to be fitted.



Right Hand viewed from centre of door

POSSIBLE OVERRIDE EXIT OPTIONS

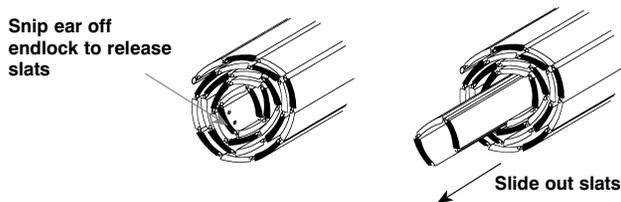
- i) drill hole for override eye through end plate flange
- ii) remove the screw and the upper collar
- iii) insert override eye in hole in motor adjacent to limit adjusters
- iv) locate and tighten the upper and lower collars around the motor
- v) insert and tighten the holding screw and washer from above
- vi) hook crank handle in eye
- vii) secure clear of shutter with crank handle clip



7. CURTAIN ADJUSTMENT (REDUCING HEIGHT/MAKING REPAIRS)

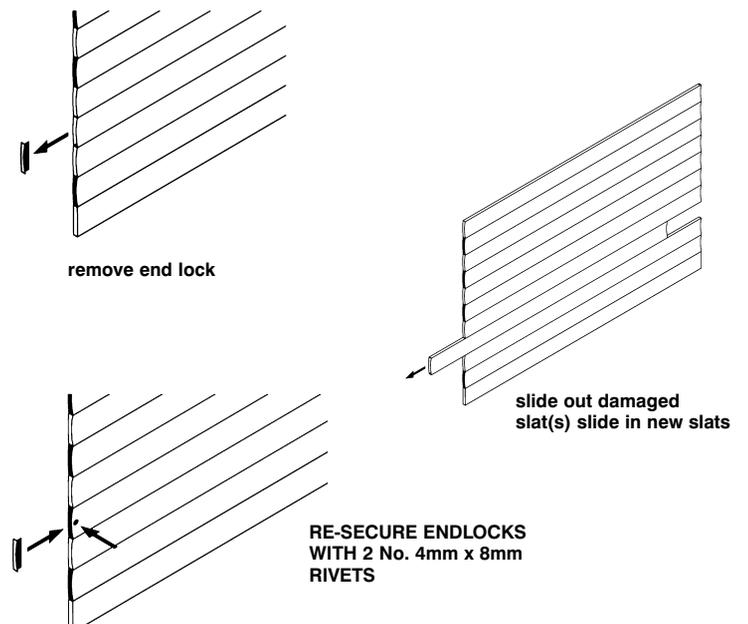
The curtain needs to be the correct height for the door to lock properly (if too tall remove slat(s) - If too short notify supplier). Check you have the correct number of slats in the curtain for the guide height (particularly if you have shortened the guide height) and adjust the curtain accordingly.

Remove slat by carefully snipping ear off end lock before sliding out slat. Preferably take slats off from the top of the curtain to save having to remove and refit bottom slat. Either roll curtain out on a flat and protected surface such as the bubble wrap and/or cardboard packaging in which the curtain is delivered, or do as below.



Number of slats including the bottom slat	Guide rail height
17	1426
18	1504
19	1582
20	1661
21	1739
22	1817
23	1895
24	1974
25	2052
26	2130
27	2208
28	2286
29	2365
30	2443
31	2521

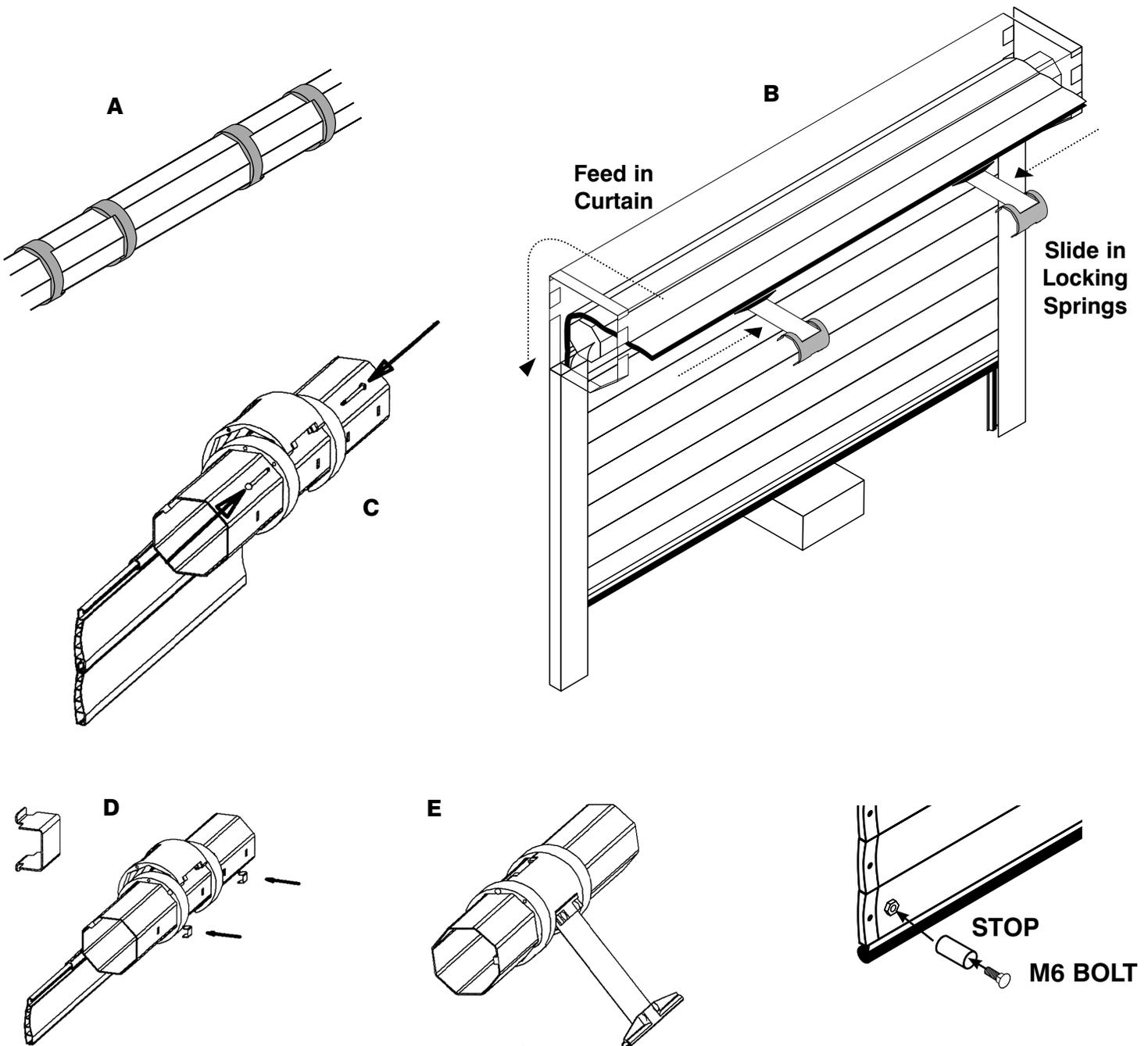
REPAIR PROCEDURE



8. INSTALL THE CURTAIN IN THE GUIDES, ATTACH TO AXLE & FIT STOPS

- i) Check that there are at least 4 pairs of compact locking collars on the axle and that each pair of collars has the cut-out towards the centre and line up with other pairs of collars along the axle (see *drawing A*). One pair must be approx. 150mm in from each end of the axle and the remaining pairs evenly spaced.
- ii) lift coiled curtain up level with axle and feed bottom of curtain into guide (see *drawing B*)
- iii) slowly unroll curtain and gently lower onto a tool box or block (see *drawing B*)
N.B: Do not allow the curtain to free fall over the axle as this will result in damage to the curtain.
- iv) slide the locking springs with semi-circular attachment bracket onto the top slat. Rotate the axle with the manual override until the attachment holes in the collars are accessible. Use the special attachment pins as supplied to attach the semi-circular attachment bracket between the collars.
N.B. You must use the second hole. Ensure that the pin is fully engaged in the attachment bracket (it should click into place) to prevent product failure (see *drawing C*).
- v) Fit small retention clips into the cut-outs in the axle to stop the locking assemblies moving along the axle. The clips do not have to be tight up against the collar. (see *drawing D*)
- vi) Use override to raise door sufficiently to remove toolbox/block. Ensure that the semi-circular curtain attachment bracket coils up flush with the collars (see *drawing E*). Leave door in partially open position.
- vii) Secure stops to captive nuts in the bottom slat with the bolts provided.

It is essential to fit the stops for health and safety reasons



9. CURTAIN LOCKING & SETTING MOTOR LIMIT SWITCHES

The Roller Garage Door is manufactured with the curtain height to suit the length of guide supplied. The door will not lock down properly if the curtain is either too tall or too short. If the guide height has been adjusted on site, check that the top of the curtain is neither below the top of the guide nor more than one slat above (see drawing A & B below). Both limits require setting along with a final adjustment of the locking springs.

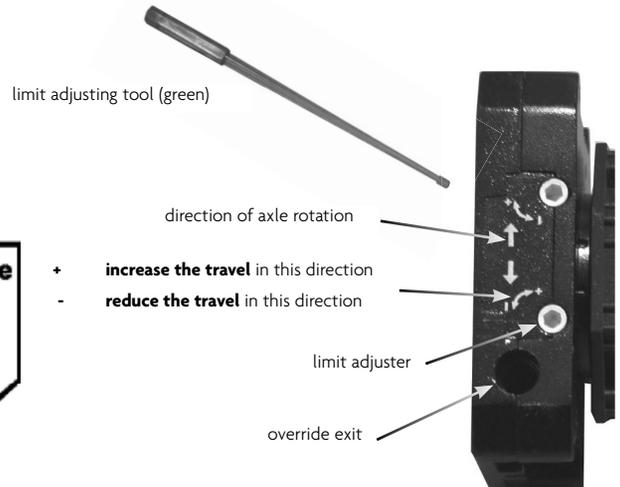
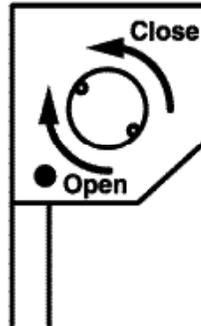
N.B: Incorrect setting of the limits risks damage to the motor, curtain and attachment devices.

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.

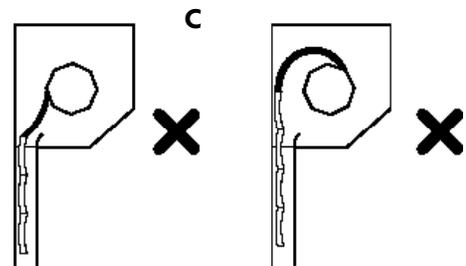
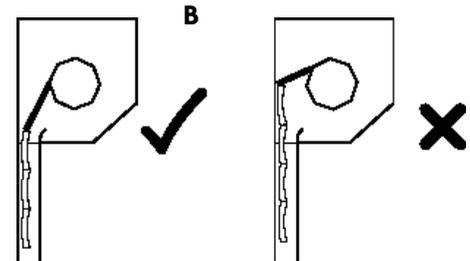
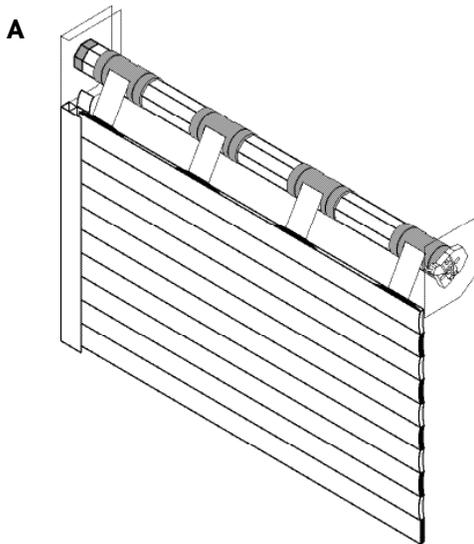
CLOSED / DOWN LIMIT SETTING AND LOCKING SPRING ADJUSTMENT

- i) Carefully close the door using either a motor test lead or the remote control unit so that the curtain is fully down and the top slat is pushed forward. The metal attachment springs should be taut but not bent or distorted (see drawings A, B & C).
- ii) 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.

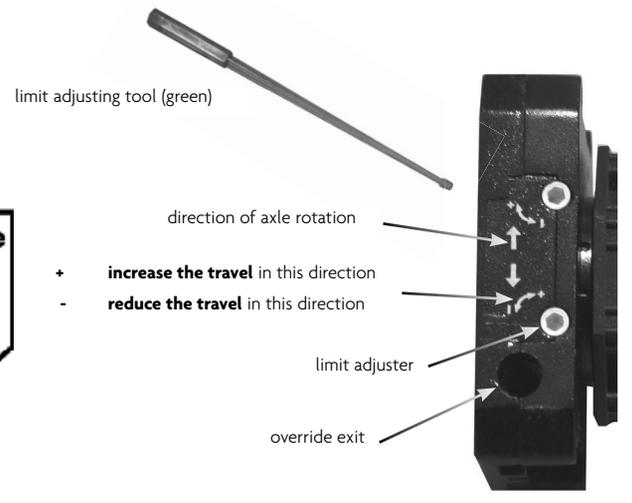


OPEN / UP LIMIT SETTING

- i) Carefully open the door using either a motor test lead or the remote control unit so that the curtain is fully open.
- ii) 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.



10. COMMISSIONING

FINAL CHECKS

- i) remove any protective plastic coverings
- ii) wipe curtain & guides with damp cloth
- iii) touch-up any small scratches
- iv) check all electrical & operating equipment is installed and functioning correctly (especially the safety edge) and complete CE marking label and paperwork
- v) check direction handle needs winding to open door and fit appropriate label supplied to crank handle.

N.B. Check front of curtain not rubbing on the lintel

The manual override will not function after the door is operated, by remote control, until the power to the motor has 'timed out'. This will take a few moments to occur. If you wish to demonstrate the manual override immediately after opening the door press either the stop button on the handset or simulate a power cut by switching off the power to the Control unit.

Upon completion it is your responsibility to train the customer how to operate the door correctly and safely and provide them with the operating and maintenance instructions supplied.

11. MAINTENANCE, REPAIRING AND DISMANTLING INSTRUCTIONS

Always isolate the mains power before attempting any maintenance, repairs or dismantling.

MAINTENANCE CHECK LIST

- i) Curtain free running and clean
- ii) No debris in the guide rails
- iii) Guide rails and end plates are securely fastened to the wall
- iv) All axle collars are in the correct original position
- v) Check action of locking pins to ensure they are locking correctly
- vi) Motor cable is correctly retained has not been damaged or in danger of being damaged
- vii) Check the operation of the manual override.

RECOMMENDED SERVICE PERIOD

The recommended service period for a garage door, which will operate on average two cycles per day, is once every 12 months. If the garage door 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.

REPAIRS

For curtain repairs please refer to section 6.

CHANGING MOTOR OR REVERSING MOTOR HAND

If the door is already fitted you will need to disconnect the motor leads from the control unit and the curtain from the axle. If the door is reveal fitted or tight up against a sidewall the whole installation may need to be dismantled.

CHANGING MOTOR

- i) Remove the screws securing the motor to the end plate.
- ii) Lift out axle
- iii) Replace the motor
- vii) Replace axle assembly and attach the motor to the end plate.

REVERSING MOTOR HAND

- i) Remove the screws securing the motor to the end plate.
- ii) Lift out axle
- iii) Remove the dummy end / spring bracket from the end plate
- iv) Prepare counter sunk holes then attach the dummy end / spring bracket to the other end plate
- v) Turn axle around
- vi) Remove all collars then re slide them back on to the axle so that they are the correct way round.
- vii) Replace axle assembly and attach the motor to the end plate.

DISMANTLING PROCEDURE

- i) Lower the curtain to the fully closed position
- ii) Disconnect the curtain from the axle
- iii) If you would like to use the curtain again you should cover the axle with bubble wrap or similar packaging material to avoid damaging the curtain when you remove it
- iv) Remove the curtain by lifting it up and over the axle
- v) If the axle contains an anti-fall back spring the tension must be removed from the spring before attempting to remove the axle. To remove the tension you must rotate the axle in the direction which would open the door the number of turns stated on the label.
- vi) Isolate the mains power then disconnect the motor leads from the control unit.
- vii) Remove the screws securing the motor to the end plate.
- viii) Lift the axle assembly out.
- ix) Unfasten and remove the guide rails and end plates.