

## Installation Instructions For

# CANOPY

## Framed Metal/Timber/GRP Garage Door

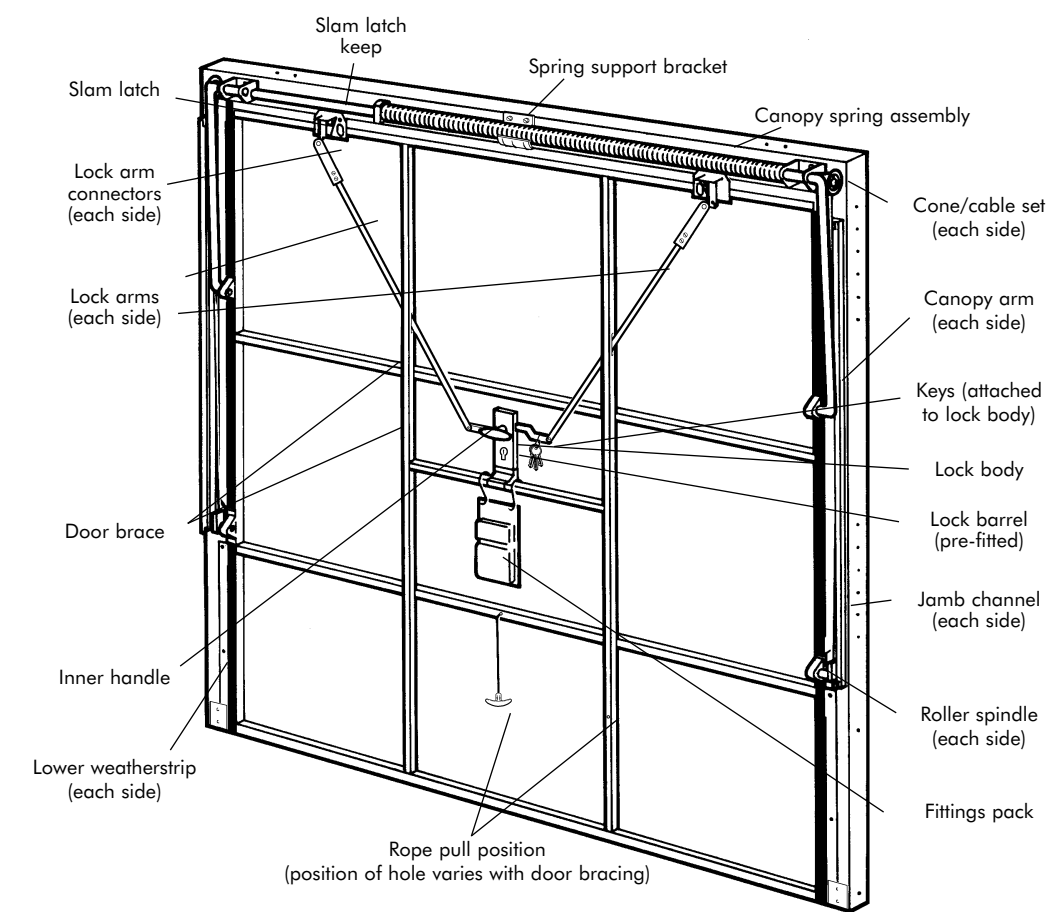
Always read the care and maintenance label thoroughly.  
Part No. 002843  
Issue No. 05 January 2004

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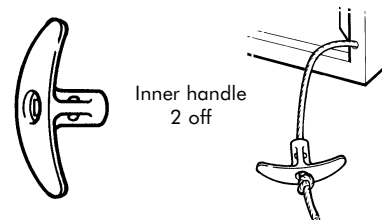
### FRAMED CANOPY DOOR

Familiarize yourself with the terms for the door components before starting the installation. The door and components must be installed by suitably trained and qualified persons, in accordance with the instructions provided. If in doubt contact a professional installer. It is important that the installation does not deviate from the instructions provided such that all requirements of EN 12604 and EN 12453 are met and if necessary verified (from May 2004). Once installed the door should be labeled in accordance with EN 13241 (from May 2004).



**Note: The door bracing differs with each door style**  
Illustration shows pattern for vertical and horizontal type panels.

**NOTE: Two inner handles are provided to make the door easier to lift during transit. They are attached by ropes to the bottom sides of the door chassis and should be removed once the door is secured in position. They will be used in step 7.**



### IMPORTANT

Check that all contents are included in the packs and that the door size is correct for the opening (see label on side of door - the label refers to the size of opening and not size of door).

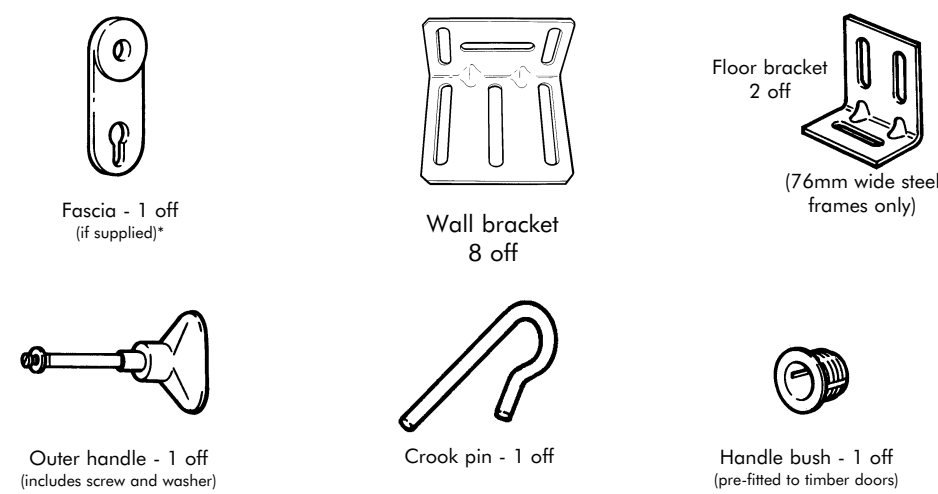
The fittings pack (see contents list) is supplied strapped to the door and must be detached and checked before starting the installation. The fittings supplied are for use in general brickwork applications. If you intend to install this framed door to any other material (for example, 'Thermalite' blocks) you must use suitable fittings. These are readily available from most Builders Merchant outlets

Installation is carried out from inside the garage. Ensure that you have adequate lighting and that all tools and fittings are inside the garage BEFORE you start.

Ensure you have the outer handle with you before leaving the garage during installation. Whilst operating the door be aware of the area it moves through. Keep people and objects out of the way. When manually operating the door, control the leading edge of the door by hand throughout the opening and closing cycle. When the door is in the open position, always ensure it is fully open/as far back as possible the roller should ride over the the jamb channel formed retention lug.

Ensure that good safety practices are employed during installation. Use good quality tools and take appropriate care if using any electrical equipment. Always check for dangerous features in the workspace such as sharp edges, protrusions or concealed or damaged electrical wiring

### CONTENTS OF THE FITTING PACK



**Note: The fascia is not used on Merlin, Durham, Doric and Victoria Steel Doors and is pre-fitted to timber doors. If you are short of any of the items mentioned, please contact your supplier.**

### LIST OF FIXINGS SUPPLIED IN FITTING PACK

ITEM	QUANTITY	DESCRIPTION
ITEM A	Qty - 22 (If 76mm wide steel frame) Qty - 8 (If 60mm wide aluminium frame)	38mm x 6.3mm self tapping screw Steps - 3, 4 & 5
ITEM B	Qty - 8 (76mm wide steel frame only)	M6 x 16mm hex. head setscrew Step - 3
ITEM F	Qty - 12 (If 76mm wide steel frame) Qty - 8 (If 60mm wide aluminium frame)	Rawplug, Pilot hole 8mm Diameter Steps - 3, 4 & 5
ITEM C	Qty - 8	M6 steel full nut Step - 3
ITEM D	Qty - 8	M6 plain washer Step - 3
ITEM E	Qty - 8	M8 plain washer Steps - 3 & 4

### CLEARANCES

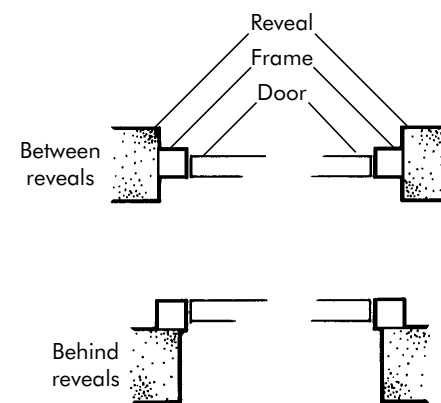
The framed door may be fitted centrally between or behind the reveals.

If fitted between, the ideal clearance between the wall and the frame is 10mm around the head and legs.

If fitted behind, the clearance between the wall and the inside face of the legs is 2.5mm min, and 62.5mm max, (76mm wide steel frame) and 40mm max, (60mm wide aluminium frame) on each side.

Ensure there is a minimum 10mm clearance between the bottom of the door (not the frame legs) and the floor.

Note: All doors include the necessary clearances within the frame. The frame legs must be kept parallel to the door chassis. It is not permissible to misalign the frame legs to suit the brickwork.



### 2 REMOVE LOOSE ITEMS FROM THE DOOR

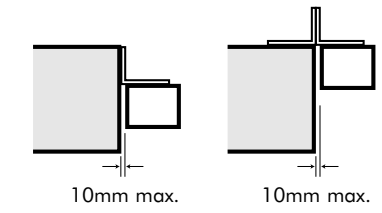
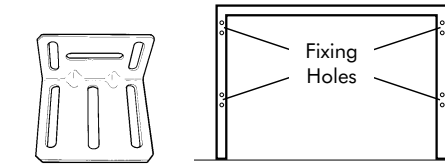
Do not remove the frame leg transit screws until step 5. Check that you have all of the necessary items. You should carefully remove the fittings pack and other loose items attached to the door. Check that the correct parts are provided. Handle the door carefully to avoid damage.

### 3 FITTING BETWEEN THE REVEALS

#### 76mm wide steel frames

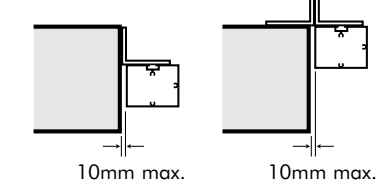
Loosely fit four brackets to the pilot holes in the frame legs (where shown) using the self tapping screw **A**. The top brackets are fitted after removal of the self tapping screw secured above the top of the jamb channel - one at the top of each frame leg. These are not required when replaced by screws **A** to secure the wall bracket.

If the frame is flush with the inside wall, use two wall brackets bolted together (use the M6 x 16mm screws, nuts and washers, **B, C** and **D**) at each fixing point



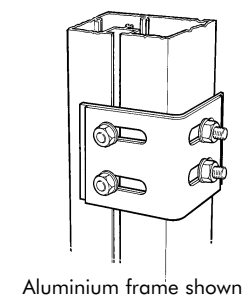
#### 60mm wide aluminium frames

Eight brackets are pre-fitted to the aluminium frame (in pairs as shown). Uncouple the brackets and re-assemble as required to suit the opening.



#### All framed canopy doors

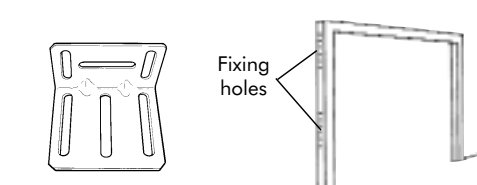
Position the door and frame centrally in the opening, ensuring that the frame head is level horizontally and that the frame legs are square to the head. Adjust the brackets so that they are against the wall and tighten all fixings. Secure the brackets to the walls the 38mm x 6.3mm screws, washers and plugs (**A, E** and **F**)



### 4 FITTING BEHIND THE REVEALS

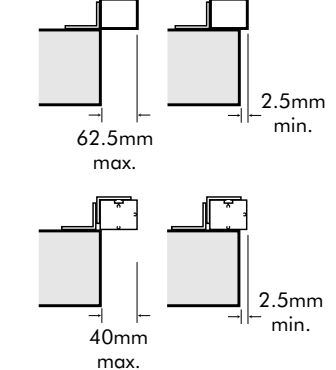
#### 76mm wide steel frames

Sets of six pilot holes are provided on the outside edge of the frame legs. Loosely fit the large brackets (two each side) to the frame using the self tapping screws **A**. Ensure that a secure wall fixing is possible, if not simply move the bracket to a better position.



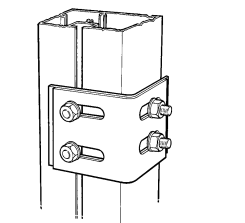
#### 60mm wide aluminium frames

Eight brackets are pre-fitted to the aluminium frame (in pairs as shown). Uncouple the brackets and re-assemble as required to suit the opening, ensuring a secure wall fixing is made.



#### All framed canopy doors

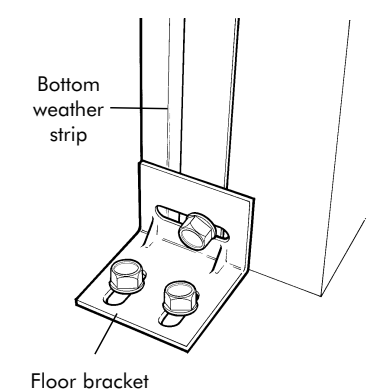
Position the door and frame centrally in the opening, ensuring that the frame head is level horizontally and that the frame legs are square to the head. Loosely secure the brackets to the wall using the 38mm x 6.3mm screws, and plugs (**A, E** and **F**). With the frame legs flush against the rear of the reveals, tighten the screws into the frame and finally tighten the wall fixings



### 5 SECURE THE FRAME TO THE FLOOR

#### 76mm wide steel frames only

Remove the bottom frame leg transit screws fixing the strike plate to the chassis. Remove the bottom strike plate / frame fixing screw. Align a small bracket with the edge of the strike plate and secure to the frame leg using the hole left in the frame leg when the screw was removed. Use a self tapping screw **A**. Secure to the floor using screws and plugs (**A** and **F**). Repeat for the other frame leg.



### 6 OPEN THE DOOR

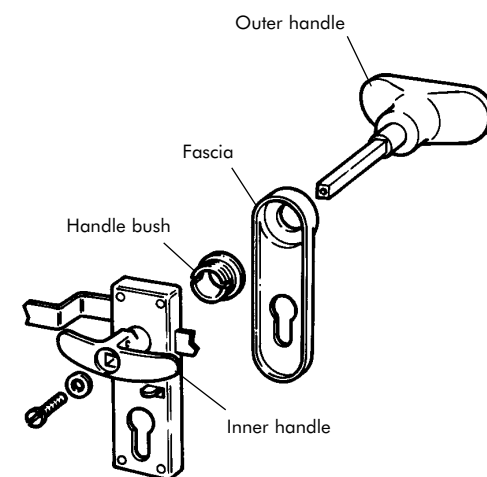
Remove any items being used to temporarily secure the door in position. Be careful not to close the door from the outside without being able to reopen. Check that the cable on each cone is positioned equally in the outer groove. If cables are misaligned refer to instruction 8 and use a toggle to allow the cable to be positioned correctly. Grip the door and simultaneously release the catches by pulling the lock arms. Slowly and carefully open the door. The canopy spring tension will assist the lifting action and the door should be controlled manually. Ensure that the rollers are running smoothly in the jamb channels and that the cable winds onto the cones.

This door is fitted with an anti drop device. This device should not effect the normal door operation. The device will not engage while there is tension in the cable. During opening and closing of the door the cable bracket should pass freely over the de-tents in the jamb channel. If the cable bracket is not running freely see the detailed instructions on the anti drop device.

### 7 FIT THE LOCK

With the lock supported on the inside, push the handle bush into position from outside and fit the fascia by inserting the fixing lugs into the holes until they 'snap-in'. Remove the screw and washer from the outer handle and pass the handle through the lock as shown. Fit one of the inner handles and secure using the screw and washer just removed. Check the operation of the handle and lock mechanisms.

The second inner handle should now be attached with the rope below the lock body, on the door bracing. Thread the rope through the hole provided and knot securely to make a 'rope pull'.



**Note: The fascia is not supplied for the Merlin, Doric, Durham and Victoria steel doors and is supplied pre-fitted to timber doors. The 'rope pull' is supplied pre-fitted to GRP doors.**  
8 Spring Tensioning

### 8 SPRING TENSIONING

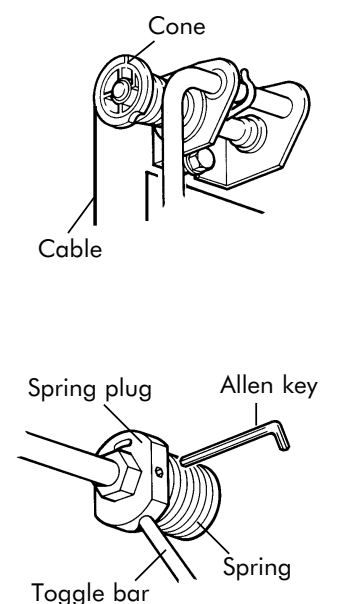
The door can not be opened or closed without sufficient spring tension as this will engage the anti drop device. Always ensure that the spring is tensioned sufficiently to allow free running of the cable bracket.

The door should open to approximately waist or chest height under its own spring tension.

If the spring requires tensioning or slackening - fit the crook pin on the right hand side by locating through the hole in the spring shaft and locating around the canopy arm in the head bracket. Hold the spring plug tight with a toggle bar in one of the four holes to maintain the tension. Loosen the two Allen screws (5/32 (1 A/F) in the spring plug. Using a second toggle bar, turn the spring plug one or two turns up to tension or down to slacken the spring. Tighten the two Allen screws and carefully allow the spring to take up the tension before removing the original toggle bar.

Ensure that the cables run down behind the cones and are in the outer grooves as shown. Remove the crook pin.

Operate the door to make sure it is correctly balanced. Readjust as necessary.



### 9 TROUBLESHOOTING

If you experience any problems with the operation of your door firstly check the frame installation as shown in steps 1 to 8 and ensure all installation steps have been followed correctly.

#### PROBLEM SOLVING

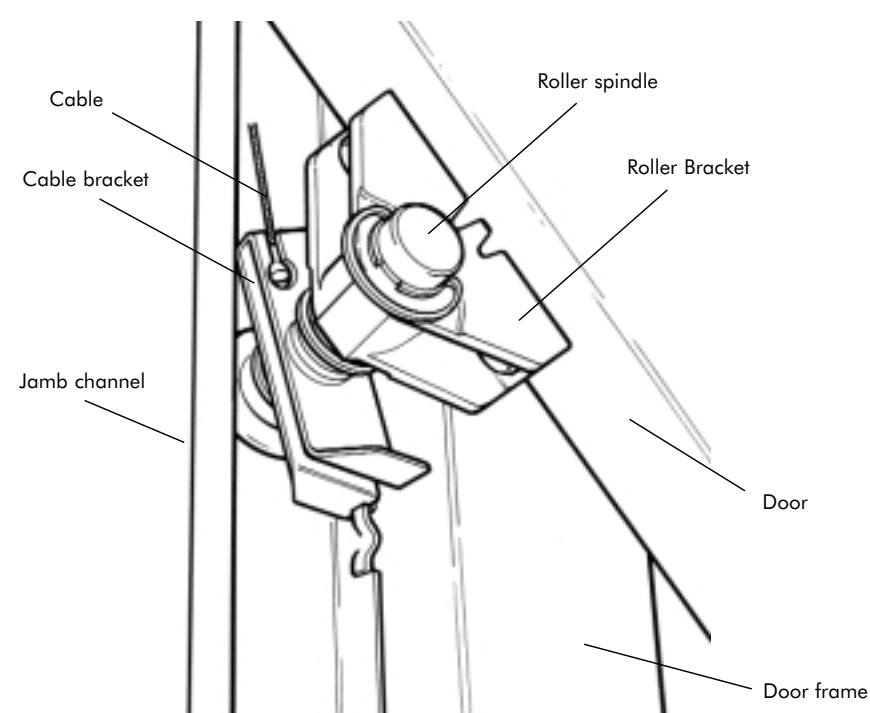
Problem	Solution
When in the open position the door is lower to one side	This is sometimes characteristic of Canopy Doors and may not be a mechanical problem. Check that the cables have wound onto the cones correctly see steps 6 and 8.
The handle is stiff to turn.	Apply a drop of lubricating oil to the handle bush. See step 7.
The door operation is not smooth	Lubricate spring and pivot points. Do not lubricate jamb channels.
Check the spring tension. See step 8	
The door operation is restricted	Check the free running of the cable bracket. See step 6 and 8 and the notes for the anti drop device.

This garage door is fitted with an anti drop device which reduces risk of injury. The device will prevent the door falling in the event of a single suspension component failure such as a cable or spring. To ensure that this device will operate effectively it is important that the door is well fitted and well maintained throughout its service.

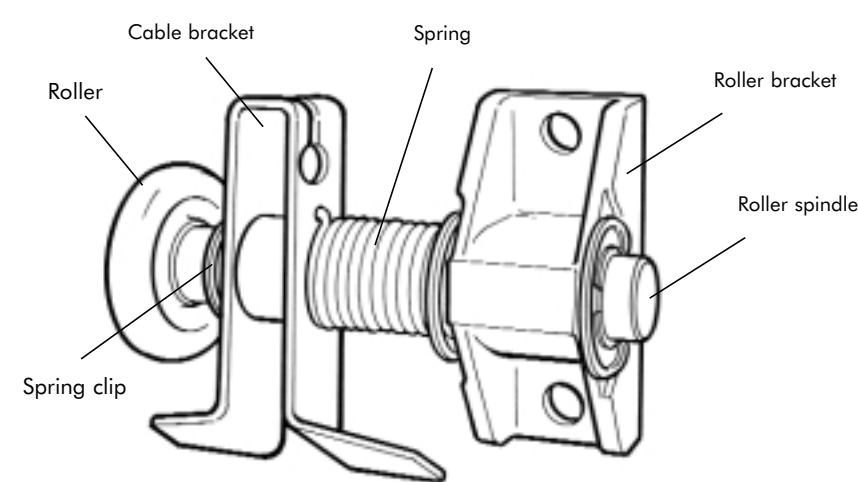
Once activated the anti drop device will support the door leaf and prevent sudden and uncontrolled closing. If the device activates the door is in a potentially dangerous situation and the closing procedure must only be undertaken by trained installers. Untrained users should contact P.C. Henderson Customer Service for the name of a qualified installer. The following instructions are provided for the benefit of trained personnel only.

The anti drop device will activate when either the canopy torsion spring has failed or a cable has broken. Although it is easier to bring the door to a closed position by two people it can be undertaken single-handedly. The following steps should be followed carefully.

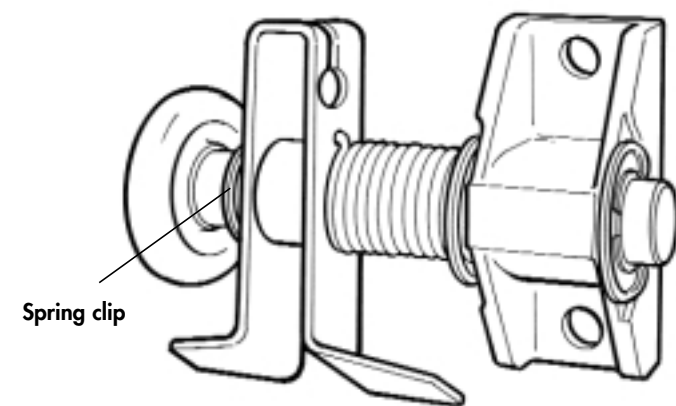
- 1 Keep people, especially children, away from the garage opening.
- 2 Carefully check the door to ensure that it is safely at rest. Always move around the door carefully and avoid moving beneath the door leaf if at all possible.
- 3 Do not try to force the door closed. Excessive force might cause unnecessary damage.
- 4 Carefully check the cable bracket to view engagement into the jamb channel de-tents. At this stage do not attempt to move the cable brackets or the door leaf. Determine whether both cable brackets are engaged (possible spring failure) or if only one cable bracket has engaged (single cable failure).
- 5 It is not recommended that intact cables be cut. This might release the torsion spring to rotate freely, which can damage the torsion spring. Additionally, when a cable is cut it might allow the cones and loose cables to spin with the spring shaft. This can be dangerous particularly to the eyes.
- 6 Prepare a suitable prop and lift the front of the door approximately 40mm. This will lift the cable bracket out of the de-tent in the jamb channel.
- 7 Ensure that the door is well supported - preferably using an assistant who can ensure that uncontrolled movement is avoided.
- 8 Attend the cable bracket that had been engaged in the jamb channel and remove any loose cable. The cable bracket will have the bottom legs inclined towards the face of the jamb channel. A torsion spring supported on the roller spindle provides the force and this must be overcome to release and close the door. This can be achieved in several ways. The roller bracket assembly has been designed to allow the spring to be disengaged from the cable bracket as follows,



Cable bracket engaged into jamb channel detent

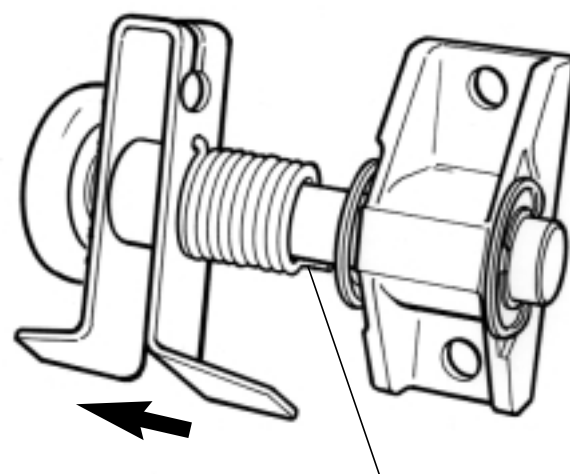


Cable bracket assembly



Spring clip

Remove the spring clip between the roller and the cable bracket



Spring disengaged from roller bracket

Slide the cable bracket towards the roller and disengage the torsion spring leg from the cast roller bracket

9 The door must now be closed - this can be difficult and it is recommended that two people complete this task. Ensure that tools and light are available inside the garage. One person should stand on the inside of the door. Ensure that people are kept out of the door leaf closing envelope. Firmly grip and support the door leaf and then remove any temporary supporting props. Lower the door leaf carefully, to a closed position. If one cable is supporting the door, then it may be necessary to use some force to push the outside of the door closed at the side of the remaining intact cable.

10 When the door is safely in the closed position inspect all parts for signs of damage. If the jamb channels, retaining features or cable bracket have been deformed then they must be replaced. Note the cable bracket is supplied as part of the roller spindle assembly. If a cable has broken then both cables must be replaced and if the canopy torsion spring has failed it will be necessary to replace the canopy spring assembly. If in doubt change all of the associated parts.

11 After replacing all damaged parts pay particular attention to the installation instructions, steps 8, 10 and 15 (unframed doors) or step 6 (framed doors).

12 Always leave the door in a safe condition and ensure that the users understand any potential dangers and how to operate the door safely.

#### Important Note

When repairing the door always ensure that the anti-drop features are assembled correctly and that the torsion spring is acting to push the bottom of the cable bracket towards the bottom of the jamb channel. The spring clip must be fitted to ensure that the cable bracket is engaged correctly with the torsion spring

The door must be dismantled with care. Always ensure that the structure is well supported during dismantling and that parts are not allowed to fall or pivot in an uncontrolled manner.

Start from inside the garage and ensure that all necessary lighting, tools and personnel are available. The door should be closed and propped securely in the opening. If the door is to be disposed of then the spring tension should be carefully released - see note 8 for reference. If the door is to be reinstalled then the cables should be disengaged from the cable bracket by using a toggle bar and the crook pins to release the cable tension. - see note 8 and ensure that the crook pin is correctly fitted.

Remove all of the securing brackets from the frame and the reveal - see notes 3 - 5 for reference.

The door can now be carefully handled; the prop supports removed and the door will release from the opening. Ensure that hands will not come into contact with any sharp edges and wear gloves if necessary. Always take care when handling heavy items.

Dispose of all unwanted parts in accordance with best practices and legislation.