

# GARADOR

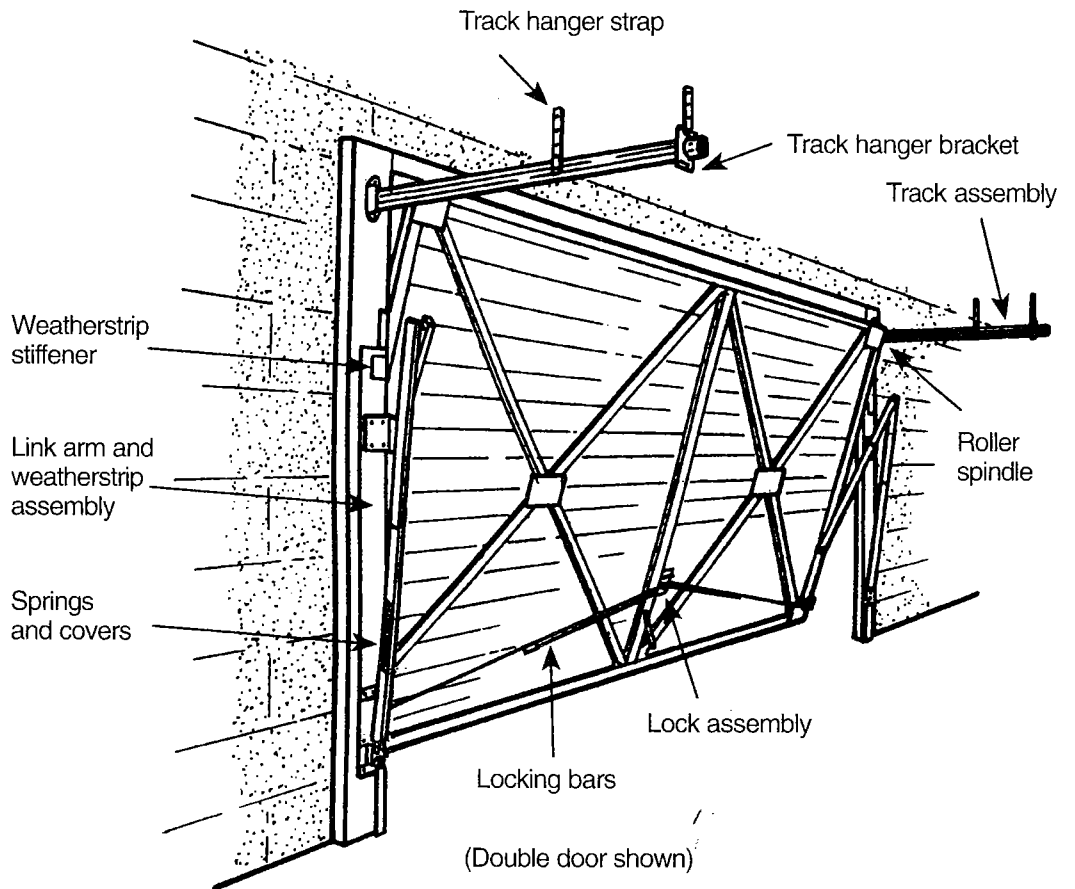
## Fitting instructions for Retractable Doors

(Read instructions fully, before installing the door)

Horizontal tracked doors supplied with 'Retractable' operating gear.

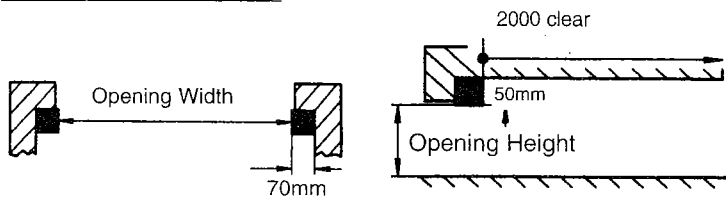
All doors with retractable gear can be electrically operated using System 'R' when the clearance above the opening is 150mm or more.

(Dimensions throughout these instructions are in mm.)

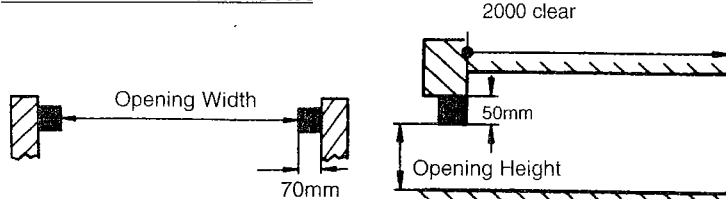


### 1) Frame arrangement

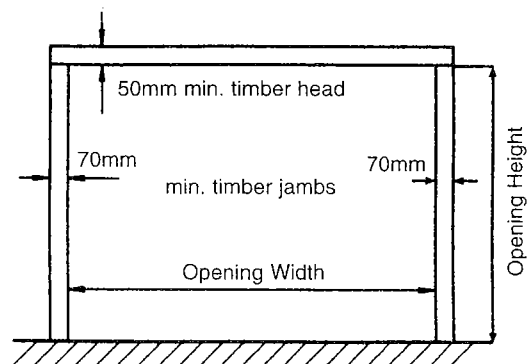
#### BEHIND BRICKWORK



#### BETWEEN BRICKWORK



Ensure that the opening is prepared correctly to dimensions applicable to the door being fitted.

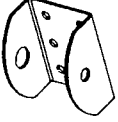
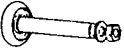
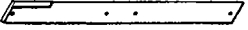
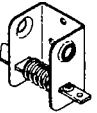
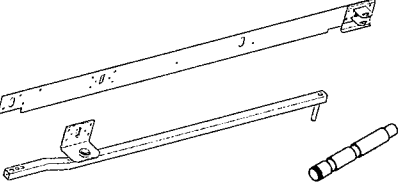
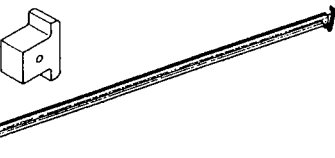


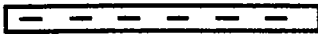






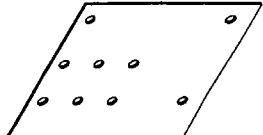
Garador Limited, Bunford Lane, Yeovil, Somerset BA20 2YA  
Tel: (01935) 443700 Fax: (01935) 443744

## 2) Components supplied with door

Please check that you have all the parts before installation.



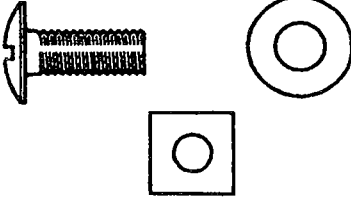
### Description





<b>Item 1</b>	<b>Qty 2 off</b>	
Roller bracket 10601002-10R		
<b>Item 2</b>	<b>Qty 2 each</b>	
Roller spindle 10601003-17-1 Washer M10 OH-WSH-21830 Nut M10 OH-NTS-13010		
<b>Item 3</b>	<b>Qty 1 each</b>	
Top weatherstrip 108-105-1RP 108-106-1RP		
<b>Item 4</b>	<b>Qty 1 each</b>	
Pivot bracket and Latch assembly TD161-3PK and TD161-4PK		
<b>Item 5</b>	<b>Qty 2 each</b>	
Link arm – G250-3 Weatherstrip G250-7 and 7L Spring anchor pin G250-8		
<b>Item 6</b>	<b>Qty 2 off</b>	
Weatherstrip stiffener 108-214		
<b>Item 7</b>	<b>Qty 2 each</b>	
Rubber stop OF-BMP-06690 Track assembly 108-971-1&2		

<b>Item 8</b>	<b>Qty 6 off</b>	
Track hangar strap 108-975		
<b>Item 9</b>	<b>Qty 1 each</b>	
Lock pack (see separate sheet) CG97		
<b>Item 10</b>	<b>Qty 2 off</b>	
Locking bars (tied to rear of door)		
<b>Item 11</b>	<b>Qty 2 or 4</b>	
Spring and covers (tied to rear of door)		
<b>Item 12</b>	<b>Qty 1 off</b>	
Plastic weatherstrip 108-127		
<b>Item 13</b>	<b>Qty 2 off</b>	
P-clip 01-PLT-00010		
<b>Item 14</b>	<b>Qty 4 off</b>	
Cable ties OF-CBL-07152		
<b>Item 15</b>	<b>Qty 2 off</b>	
Top corner fixing plate		

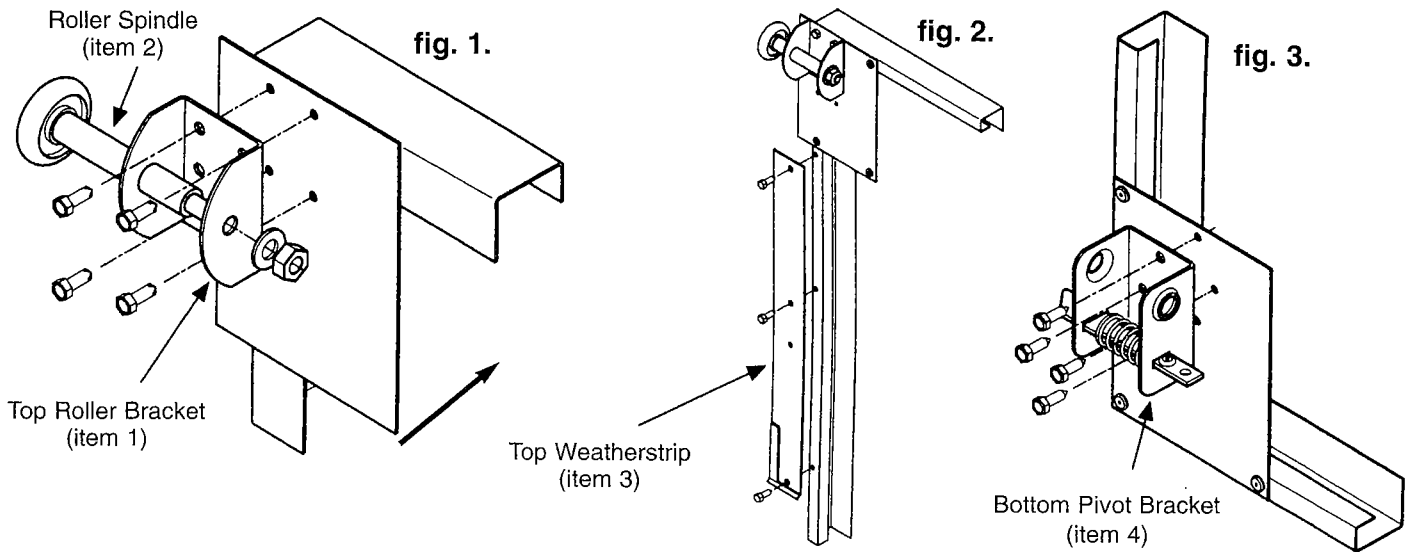
## 3) Fixings supplied (full size)

### Description

<b>Item 16</b>	<b>Qty 36 off</b>	
No. 14x19mm Screw OH-SCW-16575		
<b>Item 17</b>	<b>Qty 22 off</b>	
M6x50 Coach screw OH-SCW-16385		
<b>Item 18</b>	<b>Qty 6 each</b>	
M6x16 Roofing bolt OH-BLT-06551 M6 Washer OH-WSH-21720 M6 Square nut OH-NTS012901		
<b>Item 19</b>	<b>Qty 4 off</b>	
1/4" x 3/4" Washer OH-WSH-21700		

<b>Item 20</b>	<b>Qty 1 off</b>	
Oil sachet – OF-OIL-13190		
<b>Item 21</b>	<b>Qty 2 each</b>	
M6x40 Screw OH-SCW-15640 M6 Nut OH-NTS-12910 M6 Washer OH-WSH-21720		
<b>Item 22</b>	<b>Qty 2nuts/4 clips</b>	
M10 Nut OH-NTS-12970 E-Clip OF-CLP-08363		
<b>Item 23</b>	<b>Qty 1 each</b>	
Pull cord and grip		

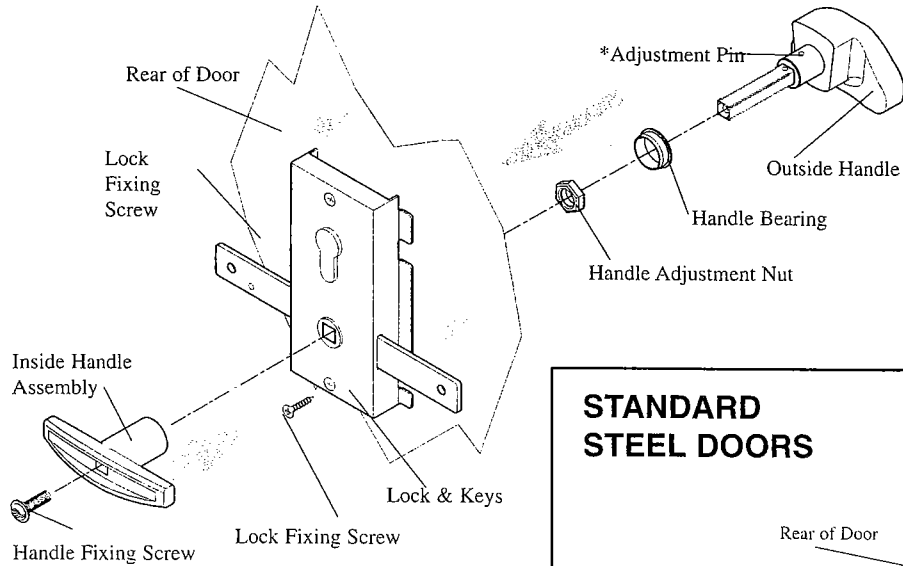
## 4) Fix Top Roller Bracket, Top Weatherstrip and Bottom Pivot Bracket



Before commencing installation of the door, prepare the panel by fixing items 1,2,3 and 4 using the No. 14x19mm Hex. HD self tapping screws (item 16) as illustrated in fig. 1,2 and 3.

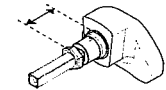
## 5) Fix Handles and Locking Bars at this stage

### TIMBER AND GRP DOORS



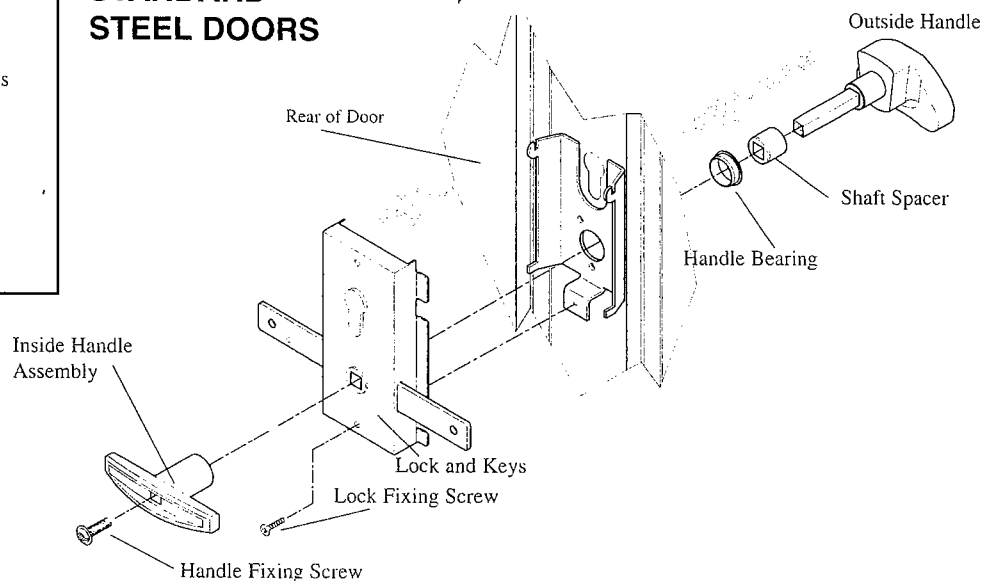
\*Handle Assembly prior to fitting  
**WARNING:- If the handle is not adjusted correctly the result will be stiffness of the handle and lock mechanism.**

32mm - GRP  
 34mm - Timber



For additional adjustment of the threaded shaft:-  
 Remove the Adjustment Pin, adjust the shaft and re-fit the pin into the appropriate hole.

### STANDARD STEEL DOORS



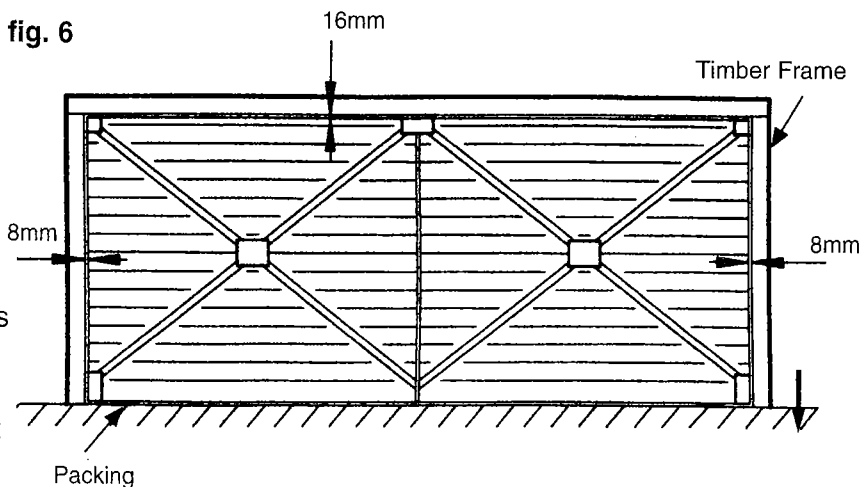
## 6 Place Door into Prepared Opening

### FOR DOUBLE SIZE DOORS

Set the door centrally into the frame opening leaving an equal 8mm clearance gap each side parallel to the frame, as fig. 6.

Pack up the bottom of the door leaving a parallel 16mm clearance gap between the top of the door and frame head. it is important that this dimension is maintained as accurately as possible.

Drive a small nail into the frame, tight against the edges of the top weatherstrip (item 3) to prevent the door moving sideways.



## 7 Fix Link Arm and Weatherstrip Assembly

### A Step 1

Slide the link arm assembly (item 5) into the bottom pivot bracket (item 4) as illustrated by fig.6 and secure with clip (item 22). Ensure the link arm is parallel to the side of the door panel, then slide the weatherstrip between the link arm wall bracket and the timber jamb locating the four fixing holes.

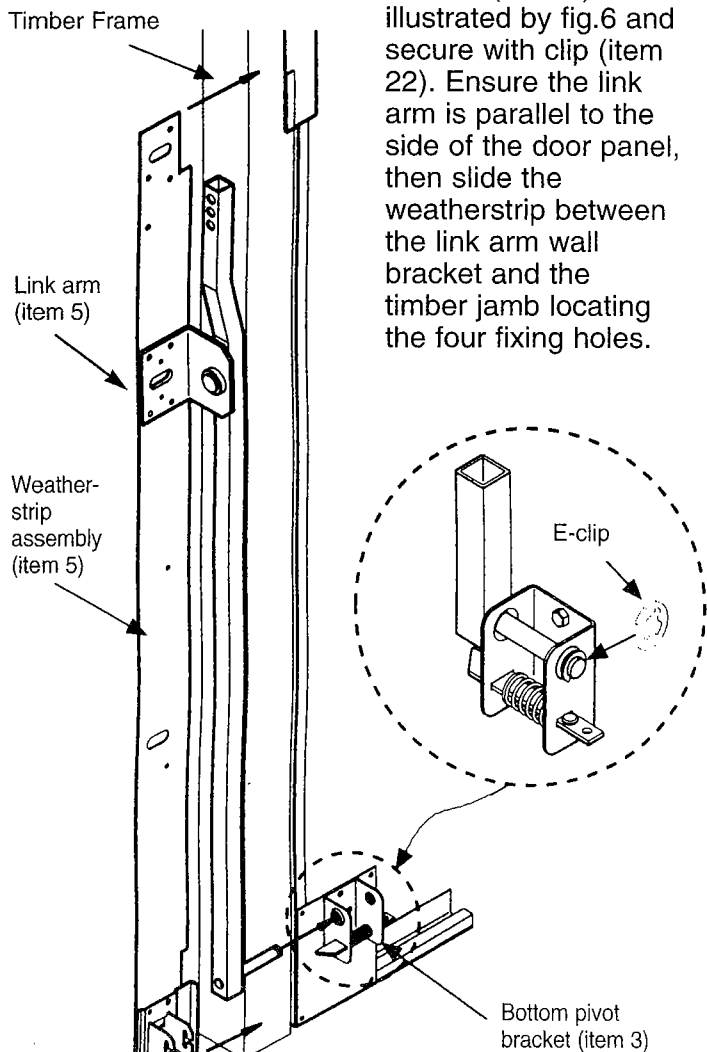


fig. 7

### B Step 2

**Note:**  
It is important to maintain an equal overlap each side of the door

Drill 7 off fixing holes 3mm diameter through the link arm and weatherstrip holes into the timber frame as illustrated in fig 8.

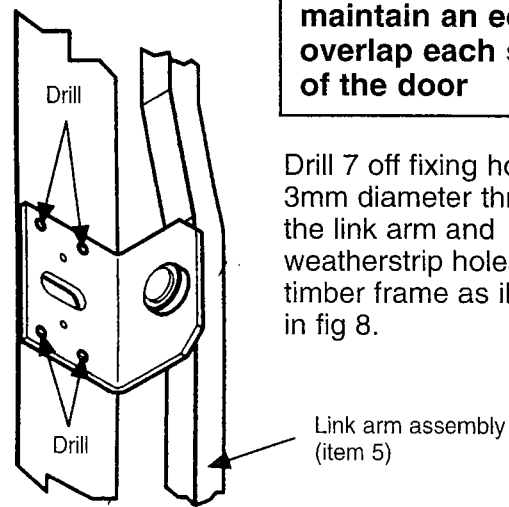
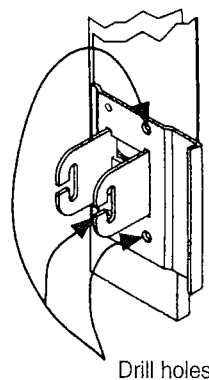


fig. 8

Secure assembly using screw (item 17)



**DOUBLE DOOR**

Position for stiffener: (top holes)

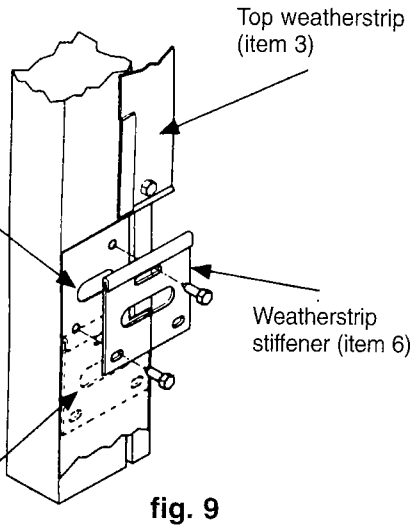


fig. 9

**SINGLE DOOR**

Position for stiffener (lower holes)

Using the weatherstrip stiffener (item 6) determine the position of the stiffener and drill holes 3mm diameter through corresponding holes in the weatherstrip (item 5) into the timber frame. Secure using screws (item 17). See fig. 9.

**This point forms a pivot when the door is operated and is critical when the door is driven by an electric operator.**

Pre-drilled holes in the weatherstrip assembly (item 5) give accurate fixing locations for all items. Complete the fixing of the assembly using screws (item 16).

Where required (7' high doors), cut plastic weatherstrip (item 12) to the required length and fix to the timber frame with screw (item 16).

## 8 Prepare and fix track assemblies

With the components as shown in item 7, fix the rubber stop to the track end using bolt washer and nut (item 21).

Holding the track assembly vertically, the jamb fixing angle uppermost and against the jamb, slide upwards and engage top roller of door in track and, with the fixing angle against the jamb, rotate track to the horizontal position. Allowing the front end of the track to rest on the roller, align the track so that it is both horizontal and square to the door. Fix the track at the rearward end temporarily, using a track hanger strap (item 8) attached to the hanger bracket with bolt, nut and washer (item 18) and fixed to a convenient roof joist or cross-tie with one screw (item 16).

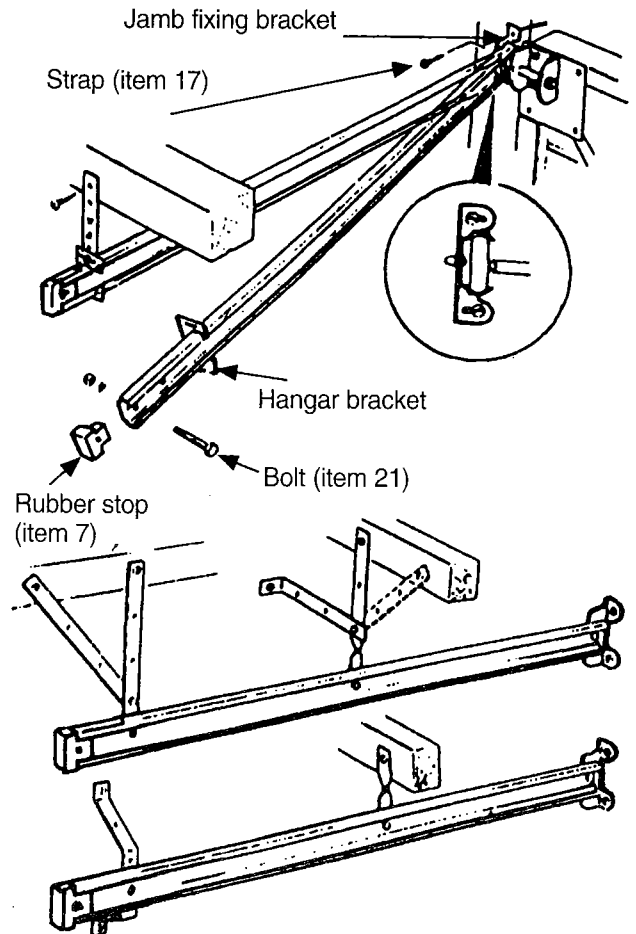
Ensure the roller at the front end is located centrally in, and bearing on the bottom of the track (see inset) and fix track assembly to jamb as illustrated using two screws (item 17) and two washers (item 19).

Drill and fix hanger straps in convenient intermediate positions using bolts, nuts and washers (item 18) and screws (item 16).

The straps supplied can be bent, twisted or re-drilled to produce suitable brackets for either side wall or ceiling fixing to suit circumstances. Some suggested arrangements are illustrated.

Repeat procedure fixing track to other side of door.

Remove all wedges, nails and props, raise the door slowly and in the open position. **SECURE DOOR BY CONVENIENT MEANS TO PREVENT ACCIDENTAL CLOSURE** (wire ties etc.).

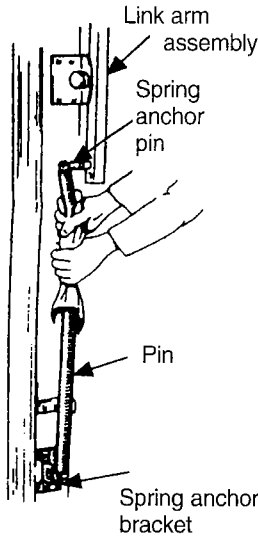


## 9) Fit springs and cover tubes

With the door securely propped in the open position, attach spring anchor pin to link arm assembly (centre hole as shown) and secure with self locking nuts supplied (see instruction 10 for notes on adjustment).

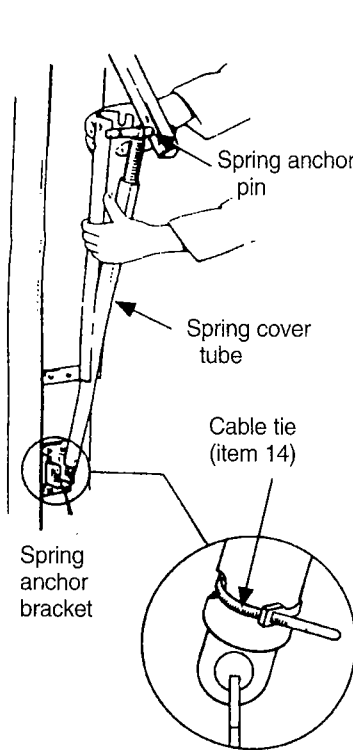
### A) Step 1

Remove springs (item 11) from covers. Place eye at one end of the spring over the hook on the spring anchor bracket nearest to the door panel. Using a cloth to protect your hands, grip the upper end of the spring firmly as close to the eye as possible and by stretching the spring upwards, hook the eye over the anchor pin on the link arm, locating the eye in the groove nearest the door.



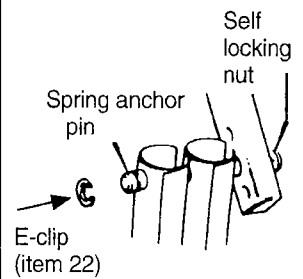
### B) Step 2

Take inner cover tube slotted end down and clip over the spring. Slide tube downwards locating slot over the anchor bracket and fix with cable tie (item 14). Take outer cover tube slotted end up, clip over the inner tube and engage slot and hole over the anchor pin.



### C) Step 3

Fit second spring and covers when doors are supplied with four springs. Finally secure springs on the anchor pin using special clip (item 22) which springs into the groove on the end of the pin.



## 10) Final check, operating and spring adjustment

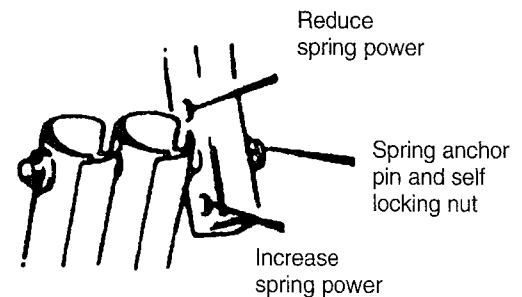
Open the door and insure that the door is square to the opening, that rollers are located centrally in the track and that the weight of the door rests equally on each track. Adjust track hanger brackets if necessary and fix firmly in required positions.

Try the door up and down a few times. If the instructions have been followed correctly the door will operate smoothly.

For their size, retractable Garadors move extremely freely. When opening, move the door steadily to the fully open position. **DO NOT** throw the door upwards. Lubricate inside tracks, all pivot points and cable latches. To ensure continued ease of operation lubricate periodically.

On SINGLE DOORS, fit the pull cord and grip into the hole drilled in the crossbracing at the rear of the door.

Should it be necessary to increase or decrease the spring power, adjustment can be made by repositioning the spring anchor pins in the additional holes provided at the ends of the link arms. Raise the door to the fully open position and prop. Remove the springs and reposition the anchor pins one side at a time, progressively until a satisfactory balance is obtained.



## 11) Top Weatherstrip

A weatherstrip for the top edge of the door is not provided but can be fitted as illustrated, projecting max. 20mm below the frame head.

