

FIXED ARM DOOR CLOSER

Fixing instructions

ALL FIXED ARM DOOR CLOSERS COME AS STANDARD WITH SELECTABLE SPRING STRENGTH AND ADJUSTABLE LATCH AND SPEED CONTROLS. OPTIONAL FEATURES INCLUDE ADJUSTABLE BACK CHECK AND DELAYED CLOSING. PLEASE FOLLOW RELEVANT INSTRUCTIONS OVERLEAF TO ADJUST YOUR DOOR CLOSER.

Before marking and drilling holes please note that Spring Power for certain models can be increased simply by selecting the fixing position of the closer. See relevant template for details.

Once the door closer has been installed and adjusted no further maintenance should be necessary. However an annual check should ensure that:

- The door leaf closes freely and positively into its frame from any angle without slamming.
- Excessive force is not required by the user to open the door. To reduce the amount of force needed to open the door rotate the adjustable power control, on the end of the door closer furthest from the hinge, in an anticlockwise direction (adjustable power versions only).
- All fixing screws are tight.
- The hexagon bolt is tight.

BS EN1154 Grade 4
for closing doors from 180° open

Testing (for all models)

- Open the door leaf to its maximum opening angle and release. The door leaf should close fully into the door frame and overcome the latch.
- Open the door leaf and rest the latch bolt on the striker plate. Release the door leaf. The door closer should have sufficient power to latch the door leaf closed.

Any failure to close the door into the frame should be investigated. It may indicate that the door closer is undersized or that excessive force is required to close the door due to distortion or misalignment.

Warning This door closer contains a powerful spring which is inserted into the body under pressure. Under no circumstances should attempts be made to dismantle a door closer.

Certifire Conditions of Use

Reference CF114

4000 Series door closers are approved for use with either latched or unlatched doors on:

Timber doors in timber frames **without** perimeter seals for periods of up to 20 mins.

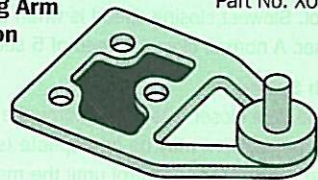
Intumescent sealed in timber frames (ITT) 20 minute to 120 minute door assemblies consisting of either solid timber or timber faced and edged doors (types C, H & I-O).

Intumescent sealed in metal frames (ITM30) 30 minute door assemblies consisting of either solid timber or timber faced and edged doors (types C, H & I-O).

For fire doors with moulded architraves of up to 15mm projection, use the special architrave bracket available separately

Projecting Arm application only

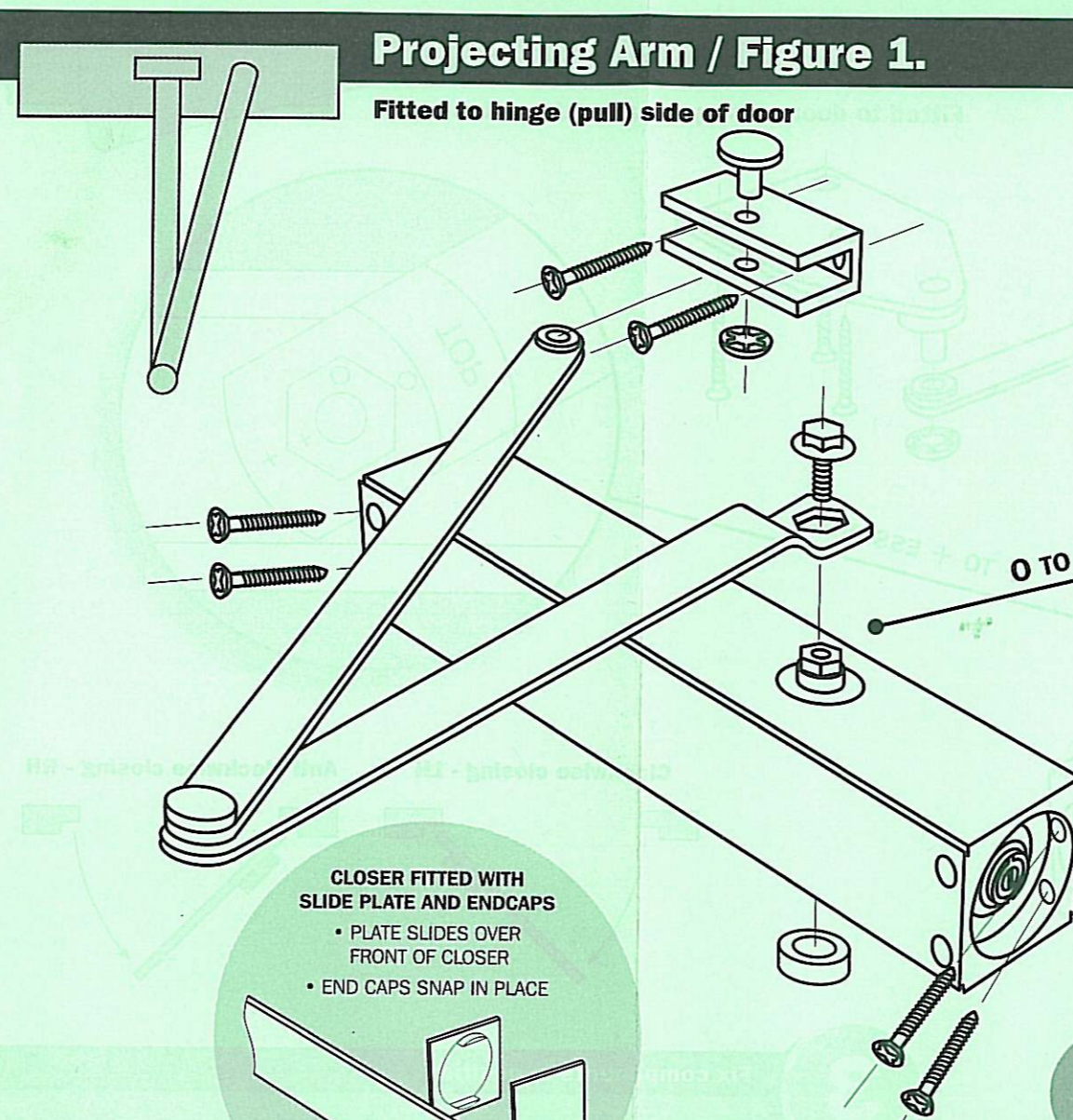
Part No. X038



40132-01/03

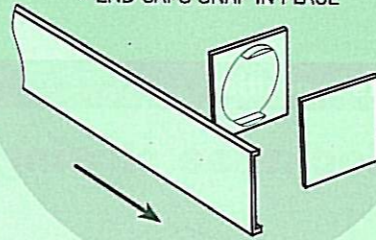
Projecting Arm / Figure 1.

Fitted to hinge (pull) side of door

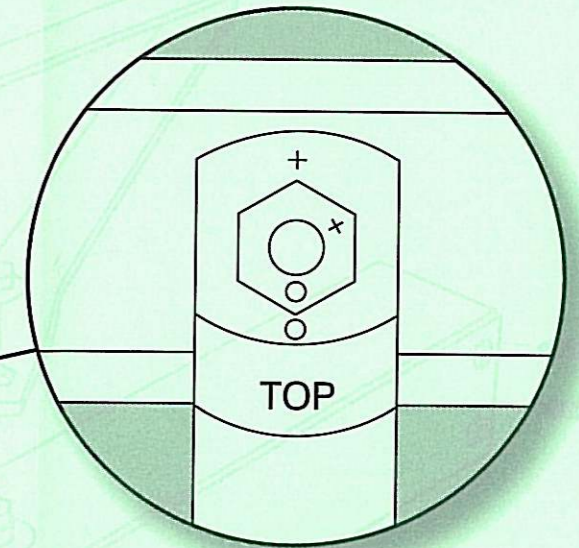


CLOSER FITTED WITH SLIDE PLATE AND ENDCAPS

- PLATE SLIDES OVER FRONT OF CLOSER
- END CAPS SNAP IN PLACE

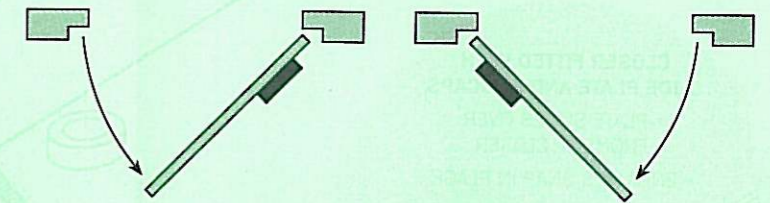


Installation instructions



Clockwise closing - LH

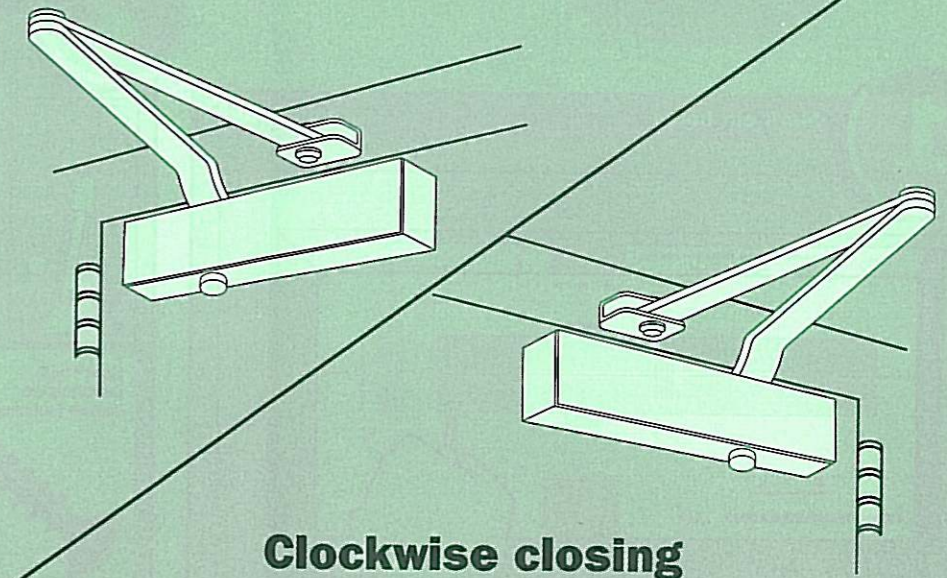
Anti clockwise closing - RH



3

Fix components in position

Anti clockwise closing

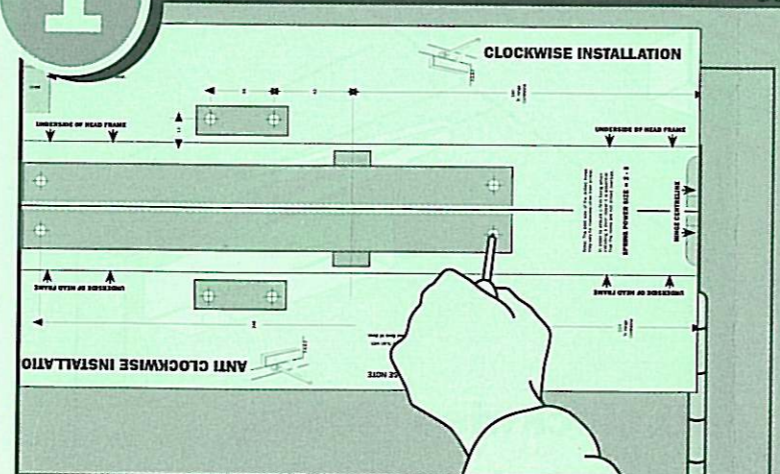


Clockwise closing

1

Mark out holes

use template A



2

Drilling holes

Fixing screws provided are Spax® high performance screws with their unique serrated edge. Pre-drilling of screw holes is not required in most materials.



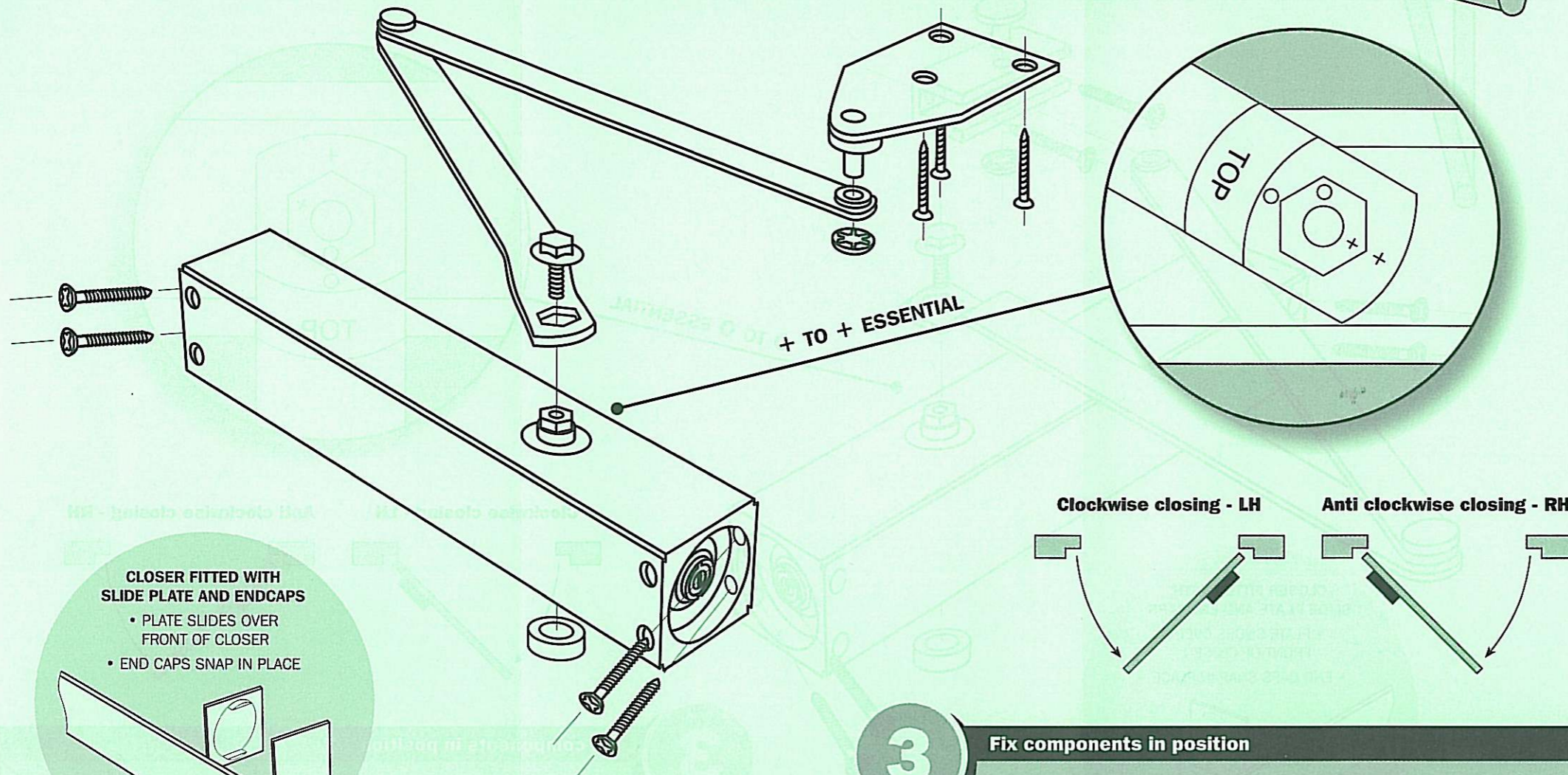
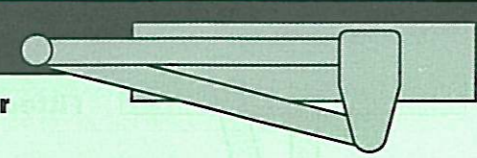
Spax® high performance screws (supplied)



Installation instructions

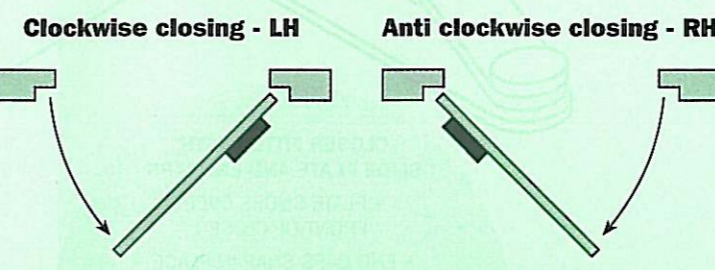
Parallel Arm / Figure 6.

Fitted to door on stop (push) side of door



CLOSER FITTED WITH SLIDE PLATE AND ENDCAPS

- PLATE SLIDES OVER FRONT OF CLOSER
- END CAPS SNAP IN PLACE



1 Mark out holes

use template B

2 Drilling holes

Fixing screws provided are Spax® high performance screws with their unique serrated edge. Pre-drilling of screw holes is not required in most materials.

Spax® high performance screws (supplied)

3 Fix components in position

Clockwise closing

Anti clockwise closing

Closer adjustment

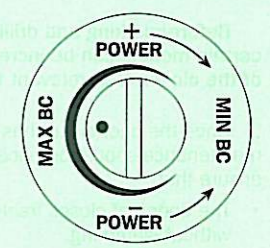
Latch Speed
 "Off" as drawn -
 "On" with spot facing crescent.

Closing Speed
 Rotate clockwise to reduce closing speed
(Do not open valve past leading edge of outer ring).

Power adjustment
 To further increase the closing force of the door, rotate the valve clockwise, the desired amount shown in the table below.

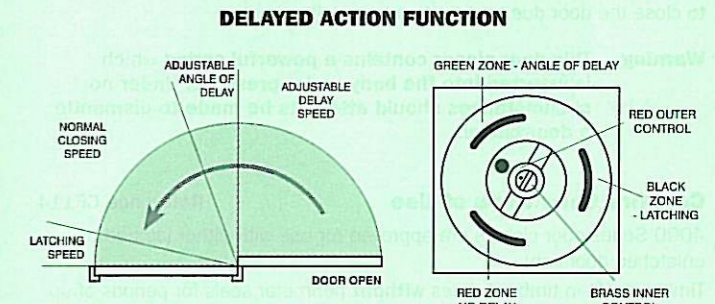
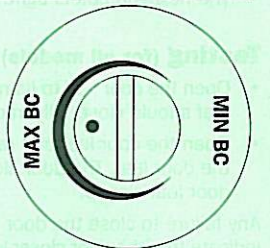
Door width (max)	Turns	Size
850	0	2
950	5	3
1100	11	4
1250	16	5

Spring Power is factory set at size 3.
 Reduce power sizes by 1 for Parallel Arm application.
FIRE DOORS MUST NOT BE SET TO LESS THAN SIZE 3



Additional adjustments - only available on certain models

Backcheck adjustment
 This facility prevents the door from being thrown back to the wall or reveal. Maximum as drawn. To reduce resistance, turn spot to thinner part of crescent.



Delayed Action Speed
 The "creep" speed of the delay zone is set with the brass inner control valve. Rotate the inner control one full turn at a time (clockwise to slow down, anticlockwise to speed up). Note: always turn the marks on both controls to the initial set position.

If delay is required below 90° of door opening. The mark on the red outer control should be adjusted to the green zone. Adjust the outer control until the release angle is correct.

Closing Speed
 Rotate the inner control through part of one turn relative to the outer control. Slowest closing speed is when the two marks are 180° to one another. A normal closing speed of 5 seconds should be selected.

Latch Speed
 If the door closer fails to overcome the resistance of the latch, then latch speed adjustment may be appropriate (see notes on closer adjustment). Rotate the red outer control until the mark is in line with the black zone (maximum latch operation is at the centre of the black zone, delay or no delay on either side of centre).