

INTRODUCTION

Thank you for buying our Electro-Hydraulic Swing Free Door Closer
 Before you start to fit the device please read the following important points

- Check the door weight before fitting as this decides the power size the door will be fitted as (Ref Table 1)
- The door should be checked to ensure correct hanging and freedom from binding
- The product must have a constant 24V DC $\pm 10\%$ (at 100mA $\pm 10\%$) power supply to function correctly
- This device must be fitted by a competent person
- All measurements are in millimeters

Follow the steps below to fit the unit. If you have a problem at any point, contact us on +44 (0)1543 460 040

Use instructions on this page for pull side [Fig 1] Swing Free closer installation.
 For push side [Fig 66 Parallel Arm] Swing Free installation use instructions on page 2

Table 1

POWER SIZE	MAX DOOR WEIGHT
3	60kg
4	80kg

TOOLS REQUIRED

- Bradawl
- Drill with 3mm Bit
- 10mm Spanner
- Masking Tape
- Pozi Head Screwdrivers
- Flat Head Screwdrivers
- Step Ladders
- Spirit Level

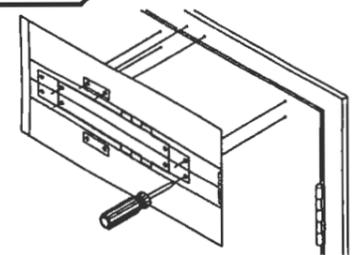
CERTIFIRE CONDITIONS OF USE (REF CF114)

9880 & 4880 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 minutes
- Intumescent sealed in timber frames (ITT) for periods of 20 to 120 minutes in door assemblies consisting of either solid timber or timber faced and edged doors (Types C, H & I-O)
- Intumescent sealed in metal frames (ITM30) for periods of 30 minutes in door assemblies consisting of either solid timber or timber faced and edged doors (Types C, H & I-O)

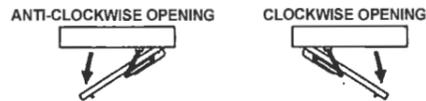
	Exidor Ltd Progress Drive Cannock, Staffordshire WS11 0JE, United Kingdom	2004

STEP 1

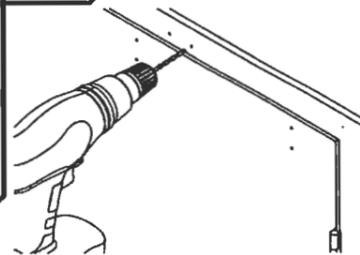


Fit Template and mark the Fixing Holes

- Use the template supplied in the box
- Stick template to the door with masking tape [not supplied]
- Use a bradawl [not supplied] to mark holes required
- Ensure you are fitting the closer in the correct opening orientation
- Ensure you are on the Figure 1 side and that you mark the correct power size holes as indicated on the template



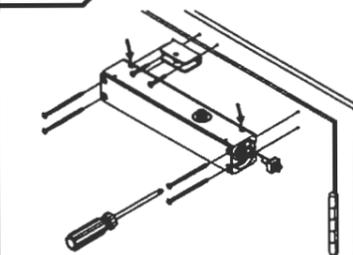
STEP 2



Pilot the marked out Fixing Holes

- Using a power drill with a 3mm bit [not supplied], pilot 4 holes for fixing the closer body and 2 holes for the Figure 1 bracket fixing points
- Ensure all holes are drilled before moving to the next step

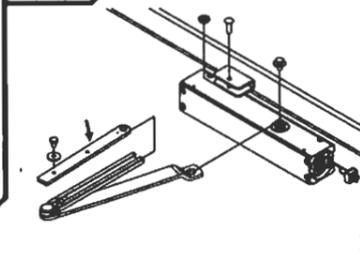
STEP 3



Fix the 'Closer Body' and 'Figure 1 Bracket'

- Fix the 'Closer Body' to the door with 4 x 'Screw A'
- Fix the 'Figure 1 Bracket' to the door frame with 2 x 'Screw B'
- Ensure that 2 x 'Screw E' are fixed into the locations shown (arrows on diagram) before fixing to door
- Check the body is level and that the 'Figure 1 Bracket' is fitted to a flat surface (this may require recessing bracket into the door frame)

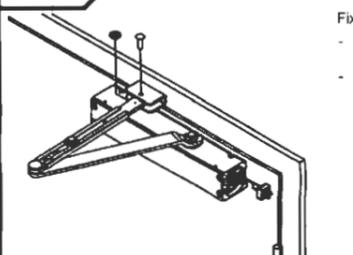
STEP 4



Assemble the 'Main Arm Assembly'

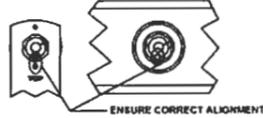
- Slide the 'Moveable Arm' (arrow on diagram) into the larger 'Fixed Arm Assembly' (see assembly view)
- Make sure 'Washer A' is between the 'Arm Bolt' and 'Fixed Arm Assembly'
- Leave the 'Arm Bolt' loose as this will aid installation in 'Step 5'

STEP 5

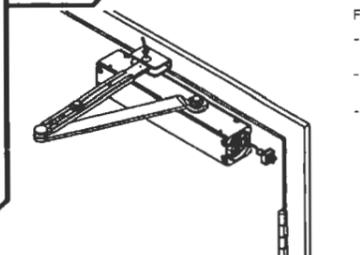


Fix the 'Fixed Arm Assembly'

- Ensure the 'Fixed Arm Assembly' is in the correct orientation. The 'O' should match up on all parts (see diagram below).
- Tighten 'Screw F' firmly into place so that the 'Fixed Arm Assembly' cannot move

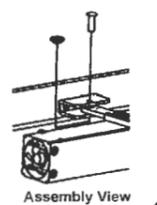


STEP 6

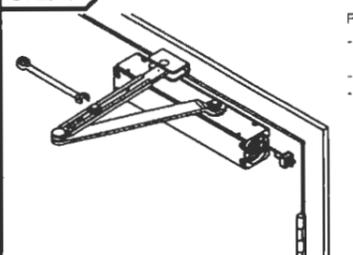


Fix the 'Moveable Arm' to the bracket

- Press the 'Pivot Pin' (arrow on diagram) through the bracket and 'Moveable Arm'
- Take the 'Capped Circlip' and press it onto the end of the 'Pivot Pin' (see assembly view)
- Ensure the 'Moveable Arm' is securely in place and cannot come free

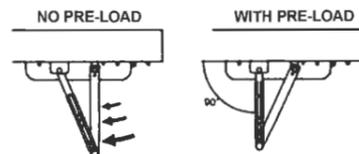


STEP 7

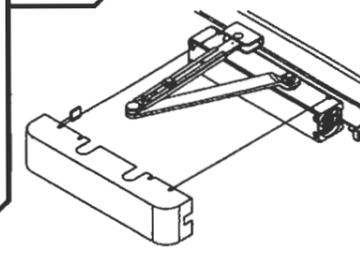


Pre-Load the door closer

- Apply pressure to the 'Fixed Arm Assembly' (arrows on diagram) so that the 'Moveable Arm' is now at 90° to the door face
- Hold in place by tightening the 'Arm Bolt' with a 10mm spanner [not supplied]
- Ensure bolt is tightened firmly so the 'Moveable Arm' cannot move freely

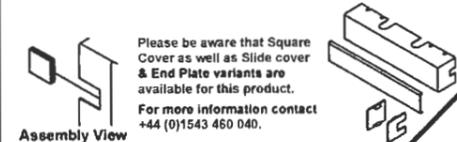


STEP 8

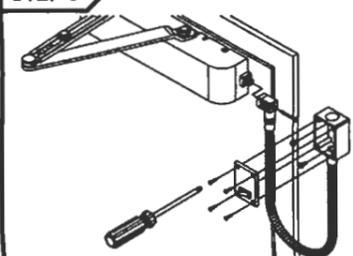


Fix the Cover to the body

- Ensure the 'Cover Grommet' (see assembly view) and 'Base Connector' are pushed into the 'Radius Cover'
- Slide the 'Radius Cover' over the body locating onto both 'Screw E'
- Tighten both 'Screw E' so that the cover does not move



STEP 9



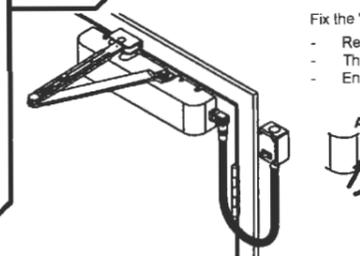
Fitting the 'Loop Assembly'

- Remove the 'Switch Box' screws and adapt the box (see assembly view) to suit the 24V DC (at 100mA $\pm 10\%$) power supply
- Connect the power supply and fix the 'Switch Box' to the wall using 2 x 'Screw D' (see assembly view)
- Ensure the location of the 'Switch Box' does not hinder operation



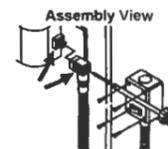
Important Note:
 Please ensure the power supply for the 'Loop Assembly' is fitted by a Qualified Electrician.

STEP 10



Fix the 'Loop Assembly' to the closer

- Re-assemble the 'Switch Box' ensuring the power is connected correctly
- Then insert the 'Loop Assembly' into the 'Base Connector' (arrows on diagram)
- Ensure 'Screw C' is securely in place



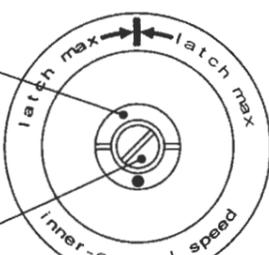
For any other information on Maintenance, Testing or closer Adjustment please see the bottom of this page.
 For any other questions please call: +44 (0)1543 460 040.

CLOSER ADJUSTMENT

Please follow below instructions to change the latch & closing speed of your door closer. Note that adjustments can be made with the tool (See below) provided within the door closer box

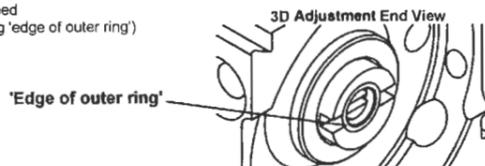
LATCH SPEED (OUTER CONTROL)

"OFF" Position - Is as shown on diagram
 "ON" Position - Rotate 1/2 a lum towards 'latch'



CLOSING SPEED (INNER CONTROL)

Rotate clockwise to reduce closing speed
 (Note: Do NOT open valve past leading 'edge of outer ring')



MAINTENANCE AND TESTING

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

- The door closes freely into its frame from any angle without slamming
- Excessive force is not required by the user to open the door
- All fixing screws and flanged hexagon bolt are tight

TESTING (WITHOUT POWER)

- 1 Ensure the switch is in the 'OFF' position (or )
- 2 Open the door to its maximum opening angle and release. Door should close fully into the door frame and overcome the latch
- 3 Open the door and rest the latch bolt on the striker plate. Release the door. The door closer should have sufficient power to latch the door 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

TESTING (WITH POWER)

- 1 Ensure the switch is in the 'ON' position (or )
- 2 Open the door to at least 65°, then close it manually making sure it does not hold open at any point
- 3 For Health & Safety reasons open the door once more to at least 65°
- 4 Then release the door, turn the power off and the door should close fully and overcome the latch

WARNING:

This door closer unit contains a powerful spring which is inserted into the body under pressure. Under NO circumstances should attempts be made to dismantle the door closer. Attempts to do so could cause injury.

INTRODUCTION

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Use instructions on this page for push side [Fig 66 Parallel Arm] Swing Free closer installation.
 For pull side [Fig 1] Swing Free installation use instructions on page 1

Table 1

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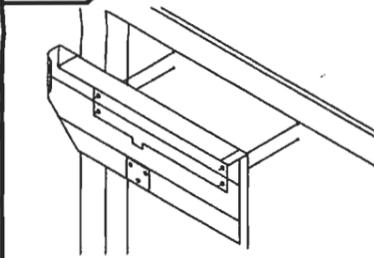
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3 8 4 1 1 3

STEP 1

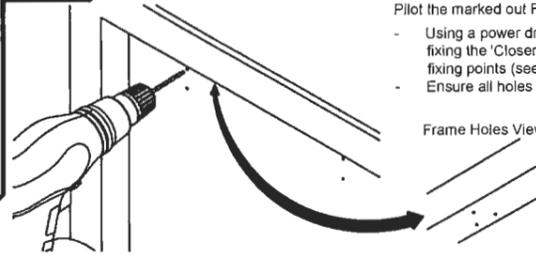


Fit Template and mark the Fixing Holes

- Use the template supplied in the box
- Fold the template where indicated
- Stick template to the door with masking tape [not supplied]
- Use a bradawl [not supplied] to mark holes required
- Ensure you are fitting the closer in the correct opening orientation
- Ensure you are on the Figure 66 side of the template



STEP 2

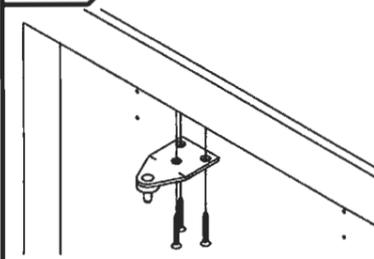


Pilot the marked out Fixing Holes

- Using a power drill with a 3mm bit [not supplied], pilot 4 holes for fixing the 'Closer Body' and 3 holes for the 'Figure 66 Bracket' fixing points (see frame holes view)
- Ensure all holes are drilled before moving to the next step

Frame Holes View

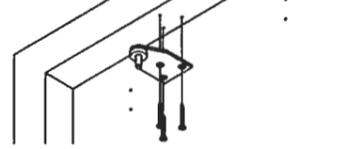
STEP 3



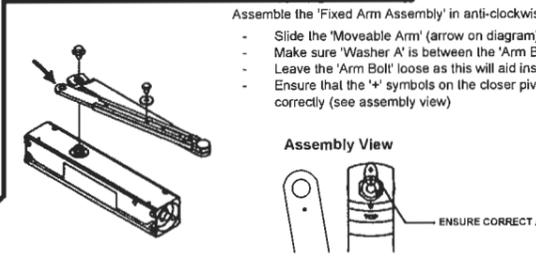
Fix the 'Figure 66 Bracket'

- Fix the 'Figure 66 Bracket' to the door frame with 3 x 'Screw B' (see underside assembly view)

Underside Assembly View



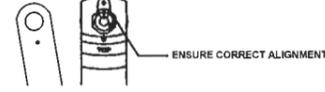
STEP 4A - ANTI-CLOCKWISE HOLD OPEN



Assemble the 'Fixed Arm Assembly' in anti-clockwise Swing Free

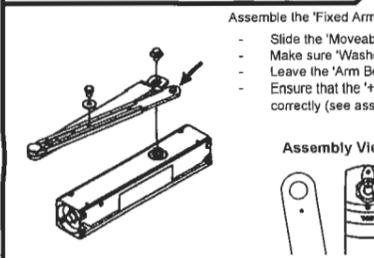
- Slide the 'Moveable Arm' (arrow on diagram) into the larger 'Fixed Arm Assembly'
- Make sure 'Washer A' is between the 'Arm Bolt' and the 'Fixed Arm Assembly'
- Leave the 'Arm Bolt' loose as this will aid installation in 'Step 5 & 6'
- Ensure that the '+' symbols on the closer pivot and 'Fixed Arm Assembly' align correctly (see assembly view)

Assembly View



ENSURE CORRECT ALIGNMENT

STEP 4B - CLOCKWISE HOLD OPEN



Assemble the 'Fixed Arm Assembly' in clockwise Swing Free

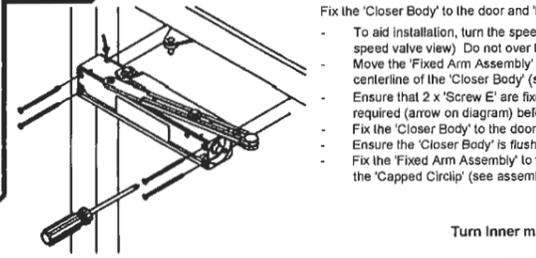
- Slide the 'Moveable Arm' (arrow on diagram) into the larger 'Fixed Arm Assembly'
- Make sure 'Washer A' is between the 'Arm Bolt' and the 'Fixed Arm Assembly'
- Leave the 'Arm Bolt' loose as this will aid installation in 'Step 5 & 6'
- Ensure that the '+' symbols on the closer pivot and 'Fixed Arm Assembly' align correctly (see assembly view)

Assembly View



ENSURE CORRECT ALIGNMENT

STEP 5



Fix the 'Closer Body' to the door and 'Figure 66 Bracket'

- To aid installation, turn the speed valve clockwise to close (see speed valve view) Do not over tighten
- Move the 'Fixed Arm Assembly' so that it is aligned with the centerline of the 'Closer Body' (see Step 6 'Arm Position View')
- Ensure that 2 x 'Screw E' are fixed into the correct holes required (arrow on diagram) before fixing to the door
- Fix the 'Closer Body' to the door with 4 x 'Screw A'
- Ensure the 'Closer Body' is flush & level on the door.
- Fix the 'Fixed Arm Assembly' to the 'Figure 66 Bracket' using the 'Capped Circlip' (see assembly view)

Assembly View

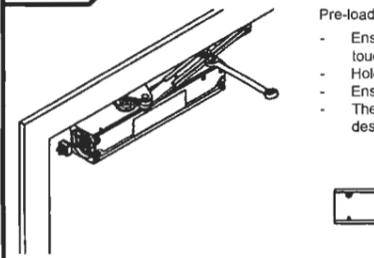


Speed Valve View



Turn Inner most speed valve clockwise.

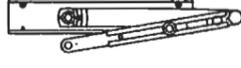
STEP 6



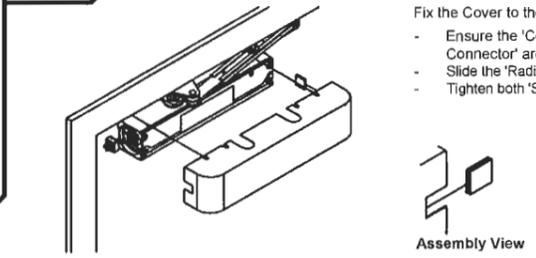
Pre-load the door closer

- Ensure the 'Fixed Arm Assembly' is still aligned with the 'Closer Body' and not touching/pressing on the door face (see arm position view)
- Hold in place by tightening the 'Arm Bolt' with a 10mm spanner [not supplied]
- Ensure the 'Arm Bolt' is tightened firmly so the 'Moveable Arm' cannot move
- Then turn the speed valve anti-clockwise so that the door closes at the desirable speed

Arm Position View



STEP 7



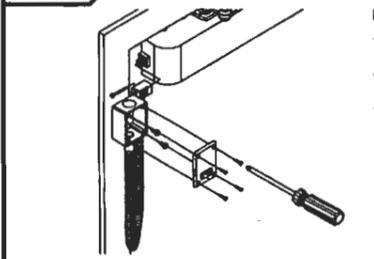
Fix the Cover to the body

- Ensure the 'Cover Grommet' (see assembly view) and 'Base Connector' are pushed into the 'Radius Cover'
- Slide the 'Radius Cover' over the body locating onto both 'Screw E'
- Tighten both 'Screw E' so that the cover does not move



Please be aware that Square Cover as well as Slide cover & End Plate variants are available for this product.
 For more information contact +44 (0)1543 460 040.

STEP 8



Fitting the 'Loop Assembly'

- Remove the 'Switch Box' screws and adapt the box (see assembly view) to suit the 24V DC (at 100mA $\pm 10\%$) power supply
- Connect the power supply and fix the 'Switch Box' to the wall using 2 x 'Screw D' (see assembly view)
- Ensure the location of the 'Switch Box' does not hinder operation

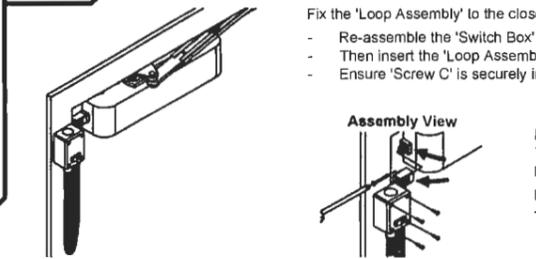
Assembly View



Important Note:

Please ensure the power supply for the 'Loop Assembly' is fitted by a Qualified Electrician.

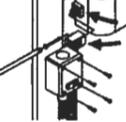
STEP 9



Fix the 'Loop Assembly' to the closer.

- Re-assemble the 'Switch Box' ensuring the power is connected correctly
- Then insert the 'Loop Assembly' into the 'Base Connector' (arrows on diagram)
- Ensure 'Screw C' is securely in place.

Assembly View



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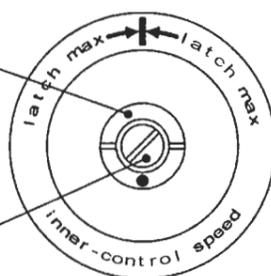
CLOSER ADJUSTMENT

Please follow below instructions to change the latch & closing speed of your door closer. Note that adjustments can be made with the tool (See below) provided within the door closer box

LATCH SPEED (OUTER CONTROL)

"OFF" Position - Is as shown on diagram
 "ON" Position - Rotate 1/2 a turn towards 'latch'

'Adjuster Key' (Provided)

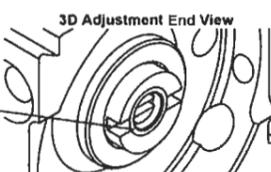


CLOSING SPEED (INNER CONTROL)

Rotate clockwise to reduce closing speed
 (Note: Do NOT open valve past leading 'edge of outer ring')

3D Adjustment End View

'Edge of outer ring'



MAINTENANCE AND TESTING

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

- The door closes freely into its frame from any angle without slamming
- Excessive force is not required by the user to open the door
- All fixing screws and flanged hexagon bolt are tight.

TESTING (WITHOUT POWER)

- 1 Ensure the switch is in the 'OFF' position (or symbol)
- 2 Open the door to its maximum opening angle and release. Door should close fully into the door frame and overcome the latch
- 3 Open the door and rest the latch bolt on the striker plate. Release the door. The door closer should have sufficient power to latch the door 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

TESTING (WITH POWER)

- 1 Ensure the switch is in the 'ON' position (or symbol)
- 2 Open the door to at least 65°, then close it manually making sure it does **not** hold open at any point
- 3 For Health & Safety reasons open the door once more to at least 65°
- 4 Then release the door, turn the power off and the door should close fully and overcome the latch

WARNING:

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