

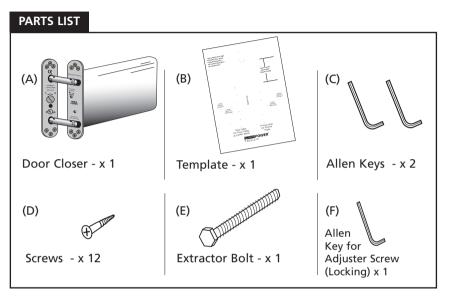
IMPORTANT NOTICE - FOR FIRE DOOR INSTALLATIONS REFER TO ITEM 1 IN FITTING INSTRUCTIONS

- CE marked and adjustable to conform to power size 3 of Controlled Door Closing Device. BS EN1154: 1997 (Test door 132lbs).
- UL Approved to UL 10B, UL 10C and UL 228. ADA Compliant.
- 1 Hour Fire Test BS EN1634-1: 2000.
- Adjustable speed control.
- Adjustable power latching action.
- 1¹/2 pairs of hinges should be used in conjunction with this closer on all doors.
- Suitable for doors opening to a maximum of 105°. A door stop should be fitted.
- Maximum door weight 175lbs, width 36".
- Suitable for latched and unlatched doors.
- Should **NOT** be used with rising butt hinges or concealed mortice hinges.

PLEASE READ FITTING INSTRUCTIONS THOROUGHLY BEFORE INSTALLATION.



The Third Generation Concealed Door Closer



CHECK ALL COMPONENT PARTS AGAINST PARTS LIST.

TOOLS REQUIRED

- Screwdriver (Plain Slotted)
- Screwdriver (Phillips)
- Wood Chisel 1"x 7"
- Solid Centre Auger Bit or Spade Bits 11/16" Ø and 11/8"Ø
- Bradawl
- Power Drill
- Tape Measure
- Pencil
- Adjustable Spanner
- Ruler

The use of a Souber morticer is suggested for multiple on site installations. (Available from Souber Tools)

www.morticer.com

A DBB morticer, a long shaft and WB25, WB27, and WB29 cutters will be required

Eye Protectors, Ear Defenders and a Face Mask are recommended during installation of Perkopower.

1 IMPORTANT NOTICE

DOOR CLOSERS FITTED TO A FIRE DOOR.

• Perkopower, conforms to Power Size 3 of Controlled Door Closing Device Standard BS EN1154:1997 when the power latching action is set to maximum.

- Turn adjuster screw fully to positive (+) as explained in 9.
- Closer must be fitted no more than 30" from floor and within 12" of a hinge.

• Closer and plates should be bedded in Alfacryl FR Intumescent Acrylic Mastic available from Samuel Heath.



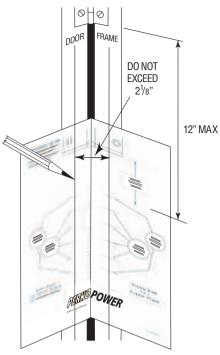
TEMPLATE POSITIONING

• Ensure door is plumb, hinges are free, and that timber is sound.

• Take template provided and fold along center line. Open door to maximum of 105°.

• Secure template to door edge and frame edge within 12" of a hinge ensuring the center line is central in the gap between door and frame.

• Draw a vertical line at the center point of the door edge on the template. **NB** This line must not exceed 1¹/4" from template center line.



Repeat on frame edge.

• The maximum distance between these 2 vertical lines must not exceed 2¹/₈" when door is opened to its maximum of 105°.

• At each point on the template where the vertical lines cross the horizontal dotted lines mark through the template using a bradawl into the door edge and frame edge to establish drilling points. Remove template <u>RETAIN FOR</u> <u>REFERENCE.</u>

• Note: Door can now be removed from frame to assist drilling if preferred.

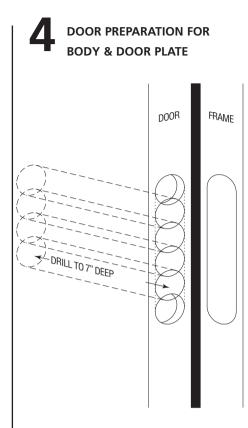
Brame preparation for frame plate

NB To ensure correct operation of closer there must be a ¹/8" gap between the two fixing plates when the door is in the closed position.

• Drill 4 x 1¹/8" Ø holes 1⁵/16" deep to accept frame plate assembly as indicated on template.

• Drill 2 x 1¹/8" Ø holes to accept frame plate ends. Depth must cater for ¹/8" gap between plates when fitted.

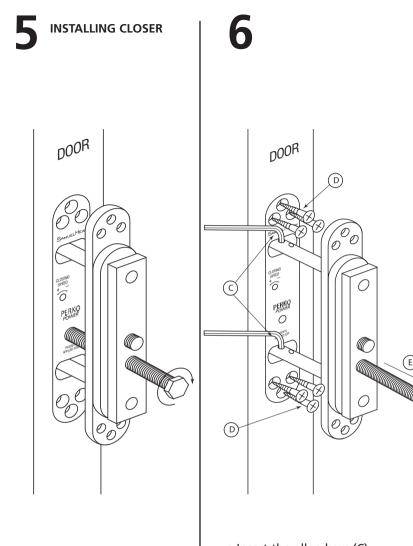
• Remove excess timber between drilled holes to accommodate frame plate.



• Drill 4 x 1¹/16" Ø x 7" deep holes to accept closer body as indicated on the template.

• Drill 2 x 1¹/8" Ø holes to accept door plate ends. Depth must cater for ¹/8" gap between plates when fitted.

• Remove excess timber between drilled holes to accept the closer body and door plate.



- Insert closer body into door.
- Insert extractor bolt (E) into position and rotate clockwise until holes in link rods appear.
- Generally for thicker doors expose both holes on each rod.
- Insert the allen keys (C) through both top and bottom link rod holes.

(E)

Both allen keys must be correctly located.

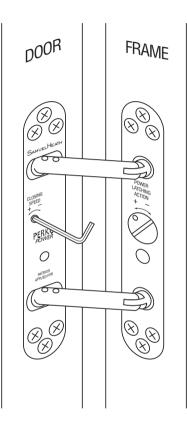
- Remove extractor bolt.
- Secure door plate to door with six screws (D).

DOOR FRAME X

> • With closer now held open by allen keys, if necessary firmly push both link rods across door plate and offer frame plate into frame void. Secure with six screws (D).

- Open door slightly and remove allen keys.
- Installation is now complete.

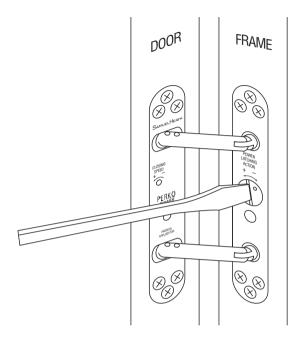
ADJUSTMENT - CLOSING SPEED



- Remove dust cap.
- use one of the allen keys (C) to adjust closing speed.
- Positive (+) increases door speed.

Negative (-) reduces door speed, as indicated on door plate.

9 ADJUSTMENT - POWER LATCHING ACTION



• The power latching action can be adjusted using a plain flat ended screwdriver.

• Loosen locking screw using allen key (F) to allow the adjuster screw to turn.

• Positive (+) increases the angle at which latching action engages.

Negative (-) decreases angle at which the latching action engages.

• Re-tighten locking screw when correct power latching action achieved.

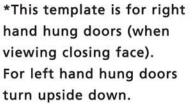
The Perkopower is protected by the following Patents and Applications.

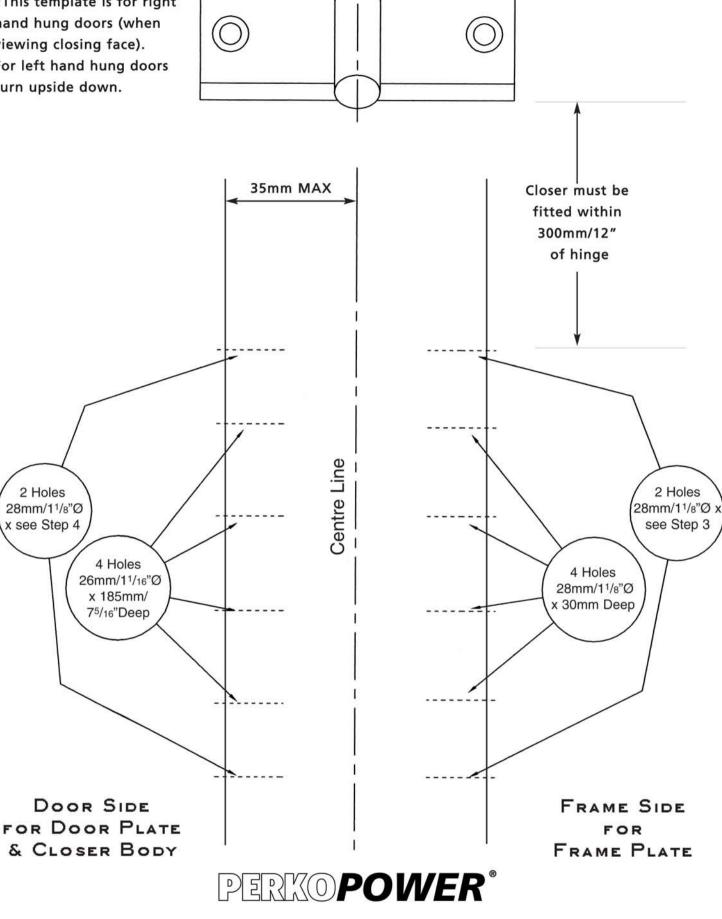
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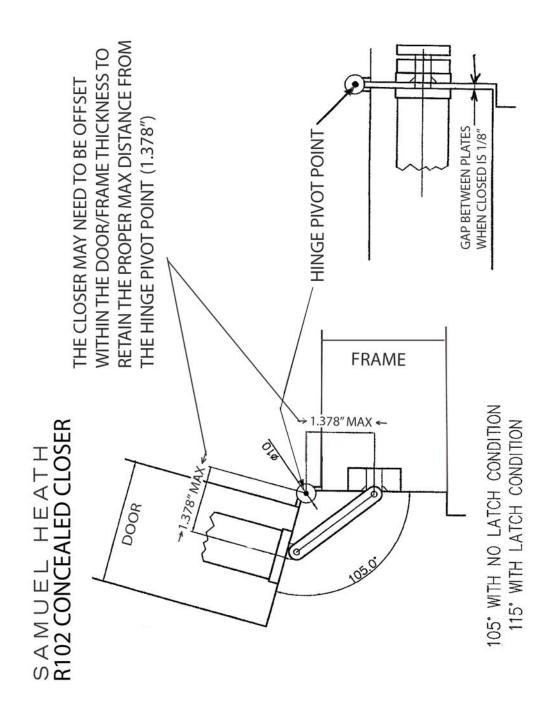
Leopold street Birmingham B12 OUJ, England telephone: +44 (0)121 772 2303 fax: +44 (0)121 772 3334 sales office direct line: 0121 766 4200 e-mail: info@samuel-heath.com US Customer service 111 East 39th street, Suite 2R New York N.Y. 10016 *telephone:* (212) 599 5177 *fax:* (212) 818 9552 *e-mail:* usa@samuel-heath.com

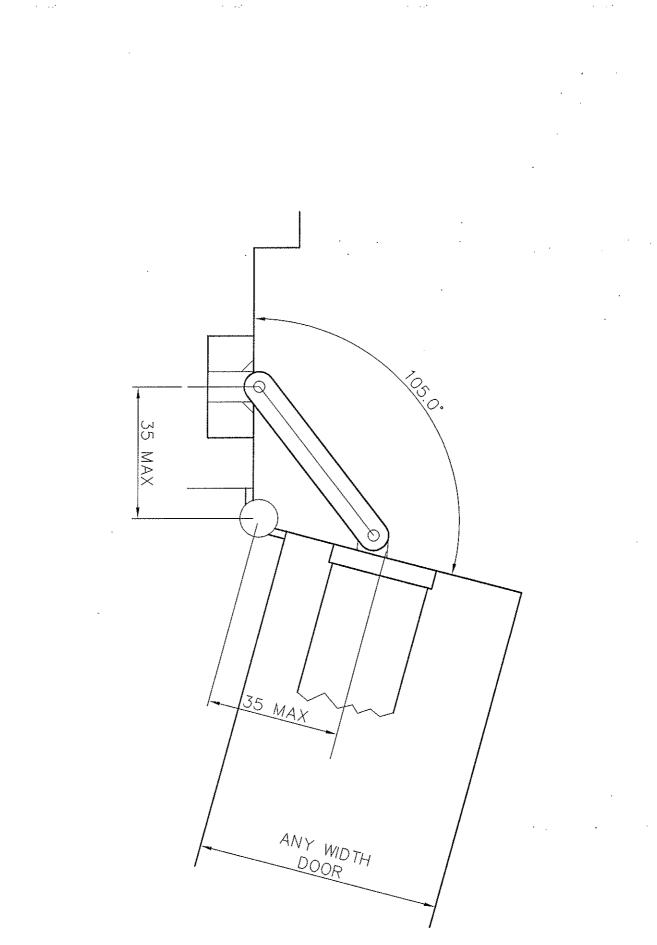
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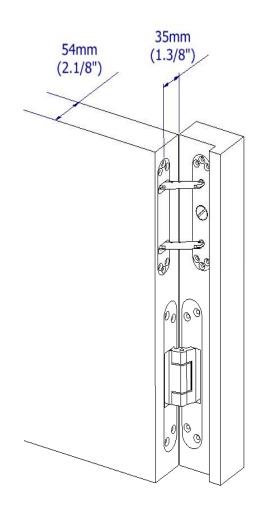
TEMPLATE





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Use of R100/R102 with Concealed Hinges



Because of the geometry of concealed hinges, a distance of 35mm (1-3/8") is required from the centre of the closer to the theoretical pivot point of the hinge. To achieve this distance a minimum door width of 54mm (2-1/8") would be recommended with the closer offset.

Samuel Heath & Sons Plc Leopold Street, Birmingham B12 OUJ, UK Tel: 0121 772 2303 Fax: 0121 772 3334 e-mail: <u>info@samuel-heath.com</u> <u>www.samuel-heath.com</u>