INSTALLATION INSTRUCTIONS
BRITON 997
ELECTRO MAGNETIC HOLD OPEN DOOR CLOSER
24v DC
TRANSOM FIXED TO 'PUSH' (OPPOSITE TO HINGE) SIDE OF DOOR.

Ref. No. 0997/018

SIZE 2 closer suitable for doors up to 760mm x 1980mm (2'-6" x 6'-6")
SIZE 3 closer suitable for doors up to 910mm x 2290mm (3'-0" x 7'-6")
SIZE 4 closer suitable for doors up to 1070mm x 2440mm (3'-6" x 8'-0")
SIZE 5 closer suitable for doors up to 1300mm x 2590mm (4'-3" x 8'-6")

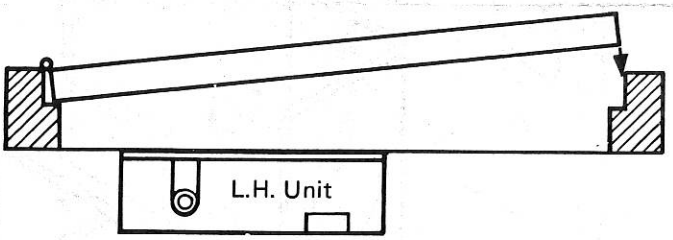
This hold open closer incorporates an electro magnet which is to be wired into a detector/alarm system. De-energising the electro magnetic unit, or a power failure, will facilitate automatic closing of the fire/smoke check door from the held open position in the event of an emergency.

Fixing position of closer allows for a nominal 90° only hold open position of door with sufficient adjustment within the auxiliary arm to give a plus or minus 5° variance.
This adjustment is primarily to cover for variations in head/hinge projection and door thickness within the indicated maximums, and to give some allowance for minor fixing errors.

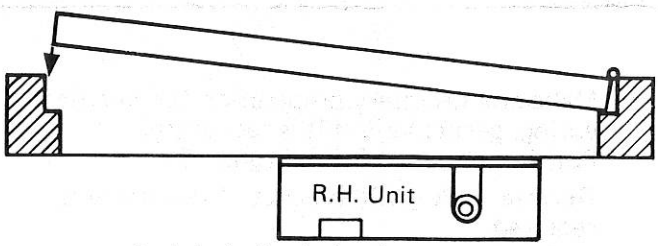
Maximum angle of door opening possible is 95° with a settle back to a hold open of 90° approx.

Briton 997 is incapable of holding door open if maximum door opening possible is under 85°.
Briton 997 will act as a normal closer, when door is only opened up to 75° max.

THIS CLOSER IS SUITABLE FOR ONE HAND OF DOOR ONLY
(Electro magnetic unit and hexagon recessed end of closer always being furthest from hinges when fixed.)



Clockwise closing door



Anti-clockwise closing door

IMPORTANT: Door must swing freely and close easily into its rebate to enable closer to operate efficiently. DOOR STOP MUST BE FITTED TO PREVENT DOOR OPENING BEYOND LIMIT OF CLOSER UNIT. Under no circumstances should the door closer be dismantled.

ELECTRICAL INFORMATION

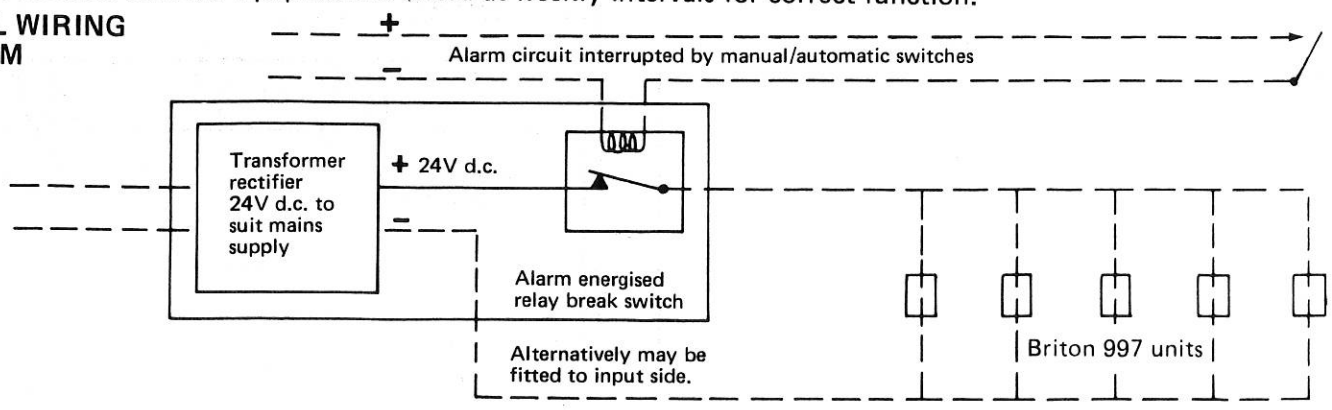
SPECIFICATION

Electro-magnet continuous rating: 2.7 watts max at 26v DC.
Power Requirements: 24vDC – 100 MA nominal.

TESTING

Check that voltage is within specified range at each unit after installation.
It is recommended that the equipment is tested at weekly intervals for correct function.

TYPICAL WIRING DIAGRAM



9. **Final hold open position**

With door stop fitted to restrain door at 5° max. beyond desired hold open angle, energise magnet and open door fully.
Auxiliary arm will be retained by gravity pawl causing door to be held open.
If adjustment is required to the hold open angle, hold door open at the desired angle, slacken the two button head screws (shown in diagram 5) and move the auxiliary arm until it rests against the back of the pawl. Re-tighten the two button head screws.
NOTE: Third button head screw on top of adjuster plate should **NOT** be slackened.

10. **Closing Speed and Latch action Adjustment.**
Regulate closer using cranked key provided.
Turn regulator for suitable closing speed, + faster or – slower. Turn slot towards vertical for latch action.
With slot horizontal, closing speed is set with NO LATCH ACTION.

See Diagram 9

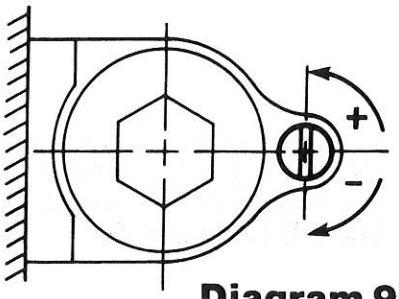
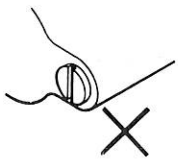


Diagram 9

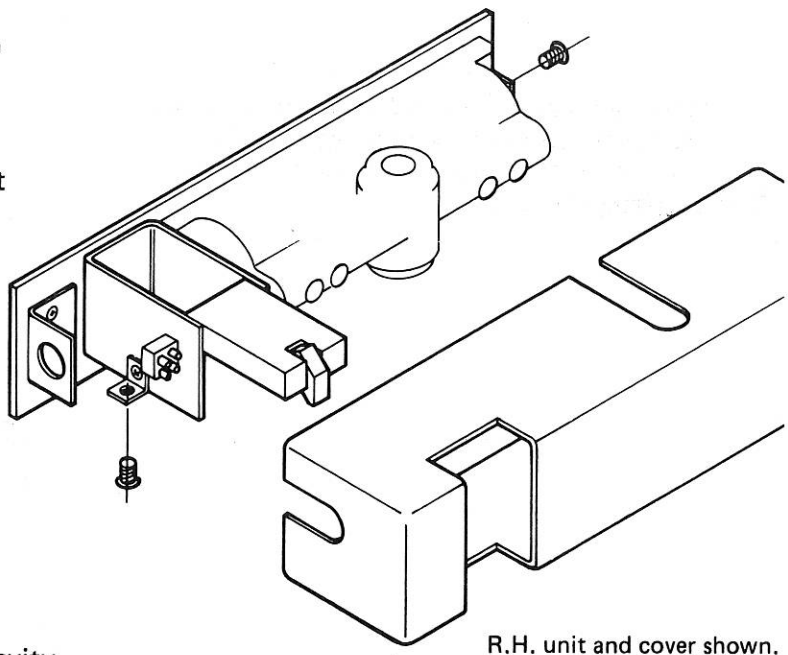


WARNING REGULATOR **MUST NOT** BE UNSCREWED BEYOND SURFACE OF BODY.

11. Complete wiring installation, refer to diagram on first page of this instruction.

12. Lift gravity flap to the horizontal position against resistance of buffer stop. Fit cover and return gravity flap to the free hanging position.
Finally secure cover with the two small screws provided.

See Diagram 10



R.H. unit and cover shown.

Diagram 10

TESTING UNIT

Switch on power supply to apply 24v DC to unit.
Open door and check that auxiliary arm is held by gravity pawl.
Switch off supply and observe that electro-magnet releases the gravity flap and allows the auxiliary arm, (under spring tension) to return, closing the door.

APPLICATION

Briton 997 unit fixed to transom on 'push' side of door. Arm bracket fixed to top rail of door.

See Diagram 1

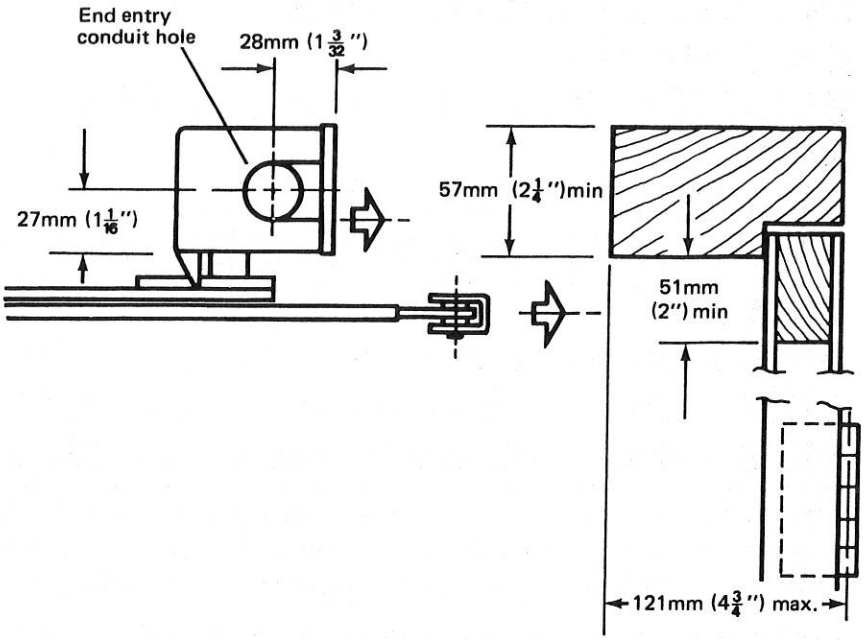
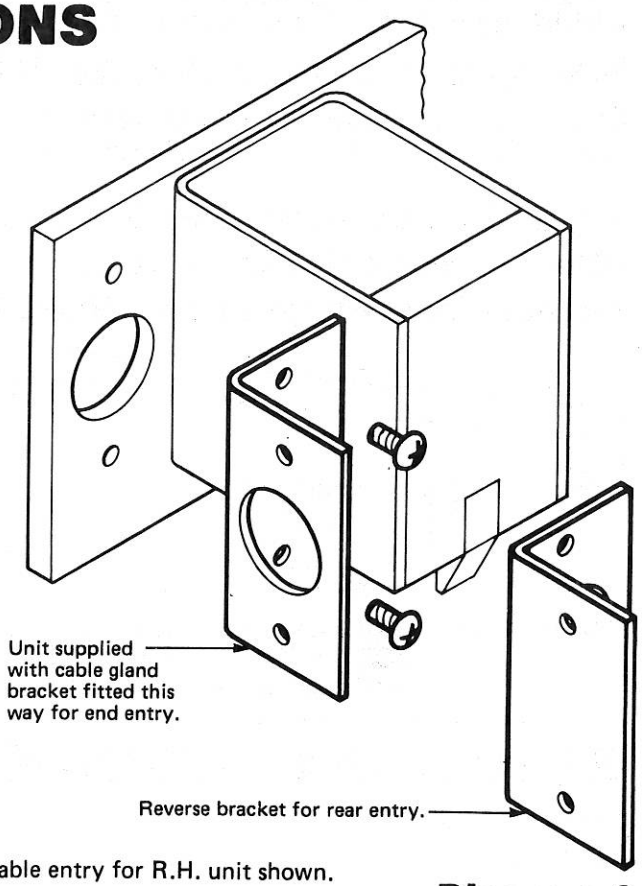


Diagram 1

INSTALLATION INSTRUCTIONS

1. Check hand of unit is correct for door.
2. Fix door stop so as to **restrict** angle of door opening 90° min. to 95° max. as desired.
3. Make any necessary preparation for electrical wiring, particularly if it is rear entry. Position obtained from diagram 3.
   Reverse cable gland bracket, if rear entry is required.

See Diagram 2



Cable entry for R.H. unit shown.

Diagram 2

4. Temporarily remove closer from backplate and fix backplate to transom at position indicated.

See Diagram 3

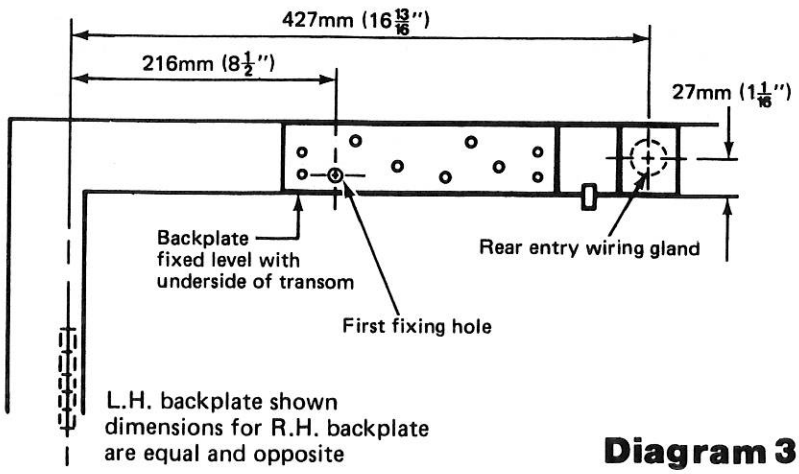


Diagram 3

5. Refix closer to back plate with hexagon recessed end of closer **furthest** from hinges. Fix arm bracket to door.

See Diagram 4

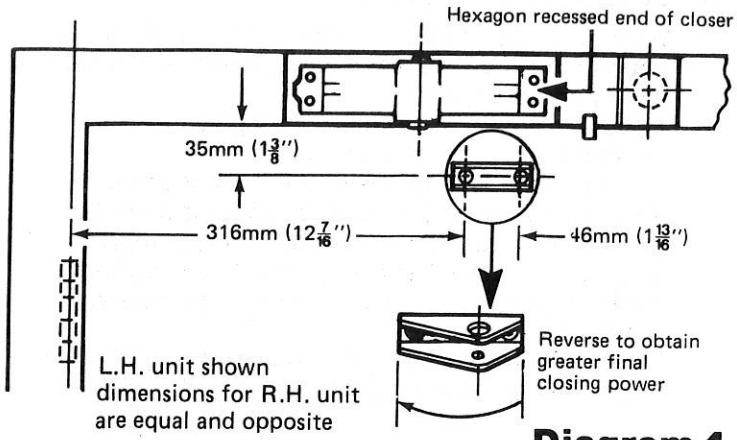


Diagram 4

6. Swivel auxilliary arm over adjuster plate and hold in position through slotted holes with the two button head screws supplied.

See Diagram 5

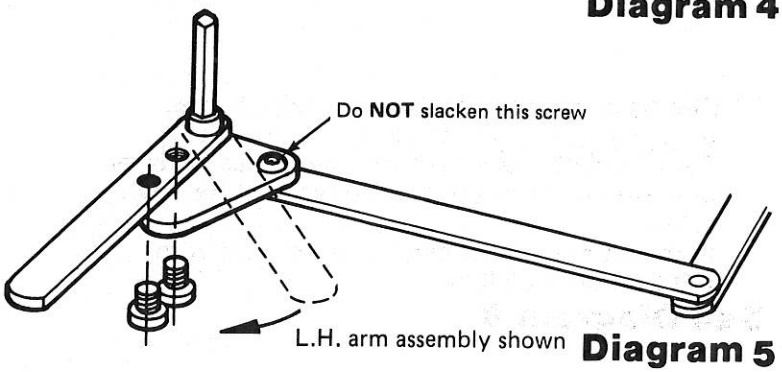


Diagram 5

7. Insert nylon bush into end of secondary arm. Insert main arm spindle fully into bottom of closer and secure with arm retaining screws.

See Diagram 6

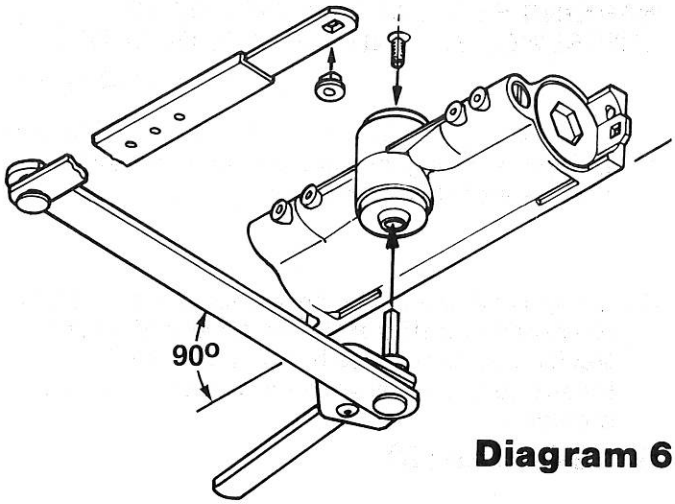


Diagram 6

8. Pull main arm over until secondary arm is at 90° approx. and set length of tubular arm using small screw and washer.
Connect end of secondary arm to arm bracket, insert pin and secure with starlok washer.

See Diagrams 7 and 8

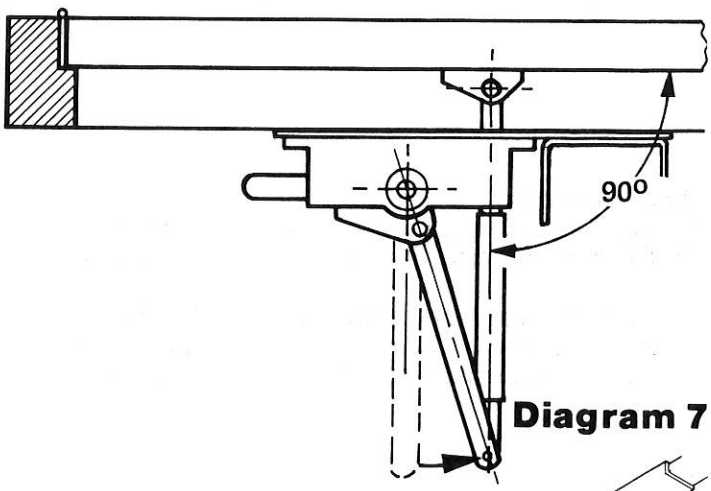


Diagram 7

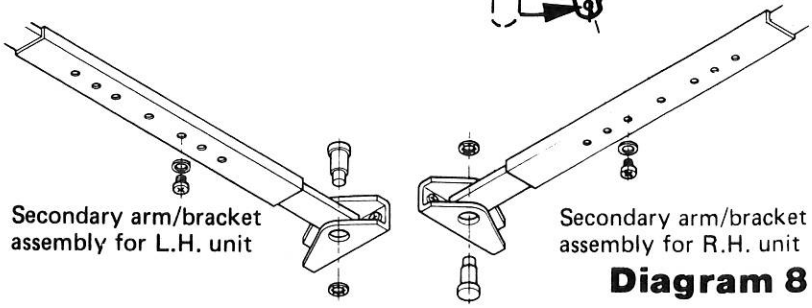


Diagram 8