

SUPPLEMENTARY INSTALLATION INSTRUCTIONS

0996/089/00

Issue 01

BRITON 996 FIG.61

ELECTRO MAGNETIC HOLD OPEN/FREE SWING DOOR CLOSER 24VDC

TRANSOM FIXED TO 'PUSH' SIDE OF DOOR AND FRAME

SIZE 3 closer suitable for doors up to 950mm wide and 60kg in weight

SIZE 4 closer suitable for doors up to 1100mm wide and 80kg in weight

SIZE 5 closer suitable for doors up to 1250mm wide and 100kg in weight

For **GENERAL NOTES** and **ELECTRICAL INFORMATION** refer to main instruction sheet.

NOTE: The armoured cable with junction box, supplied with this closer, is not intended to be used for this application but may be used as an alternative means of carrying the wiring to the electro magnet.

APPLICATION

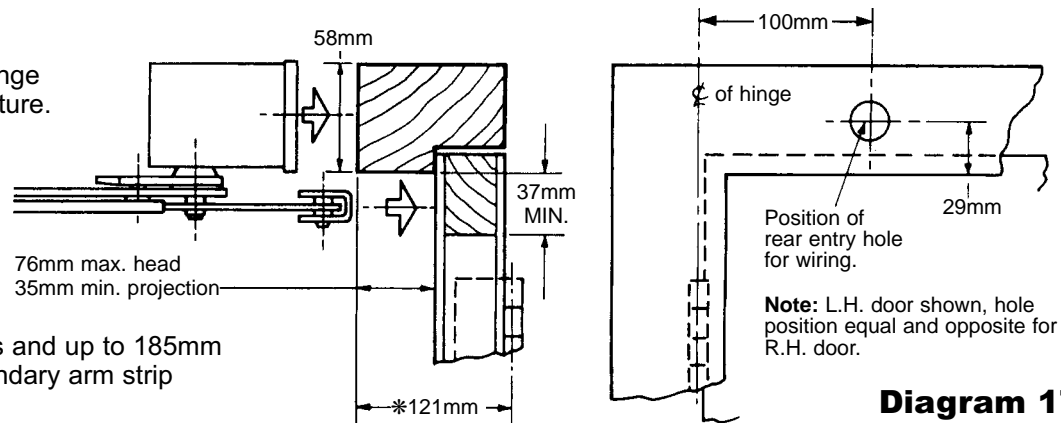
Max opening 95° subject to hinge projection & surrounding structure.

Briton 996 unit fixed to head frame.

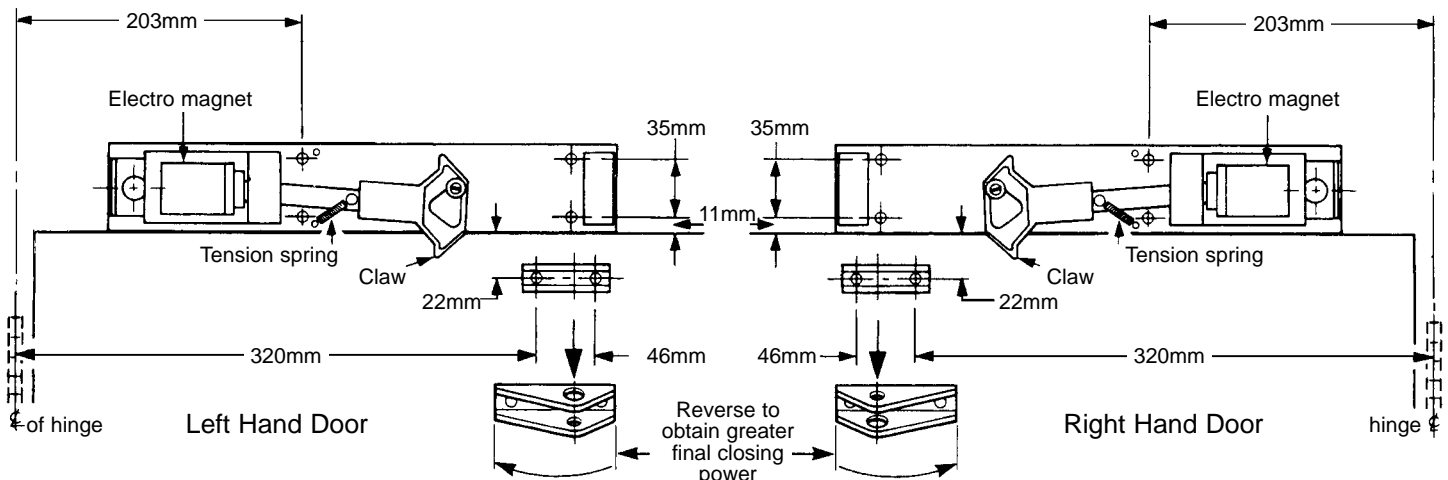
Arm bracket fixed to top rail of door.

See Diagram 17

* Dimensions greater than this and up to 185mm max. require extended secondary arm strip (Part No. 1982/165).



INSTALLATION INSTRUCTIONS



- 1) Remove closer from backplate
- 2) Securely fix backplate **level** with underside edge of head-frame ensuring electro magnet is **nearest** hinge for either hand of door.

See Diagram 18

- 3) Attach end of tension spring to lower peg ensuring end locates into groove.

See Diagram 18

- 4) Securely fix arm bracket to top rail of door.

See Diagram 18

- 5) Re-fix closer securely to backplate ensuring hexagon recessed end of closer is **furthest** from hinges.

See Diagram 19

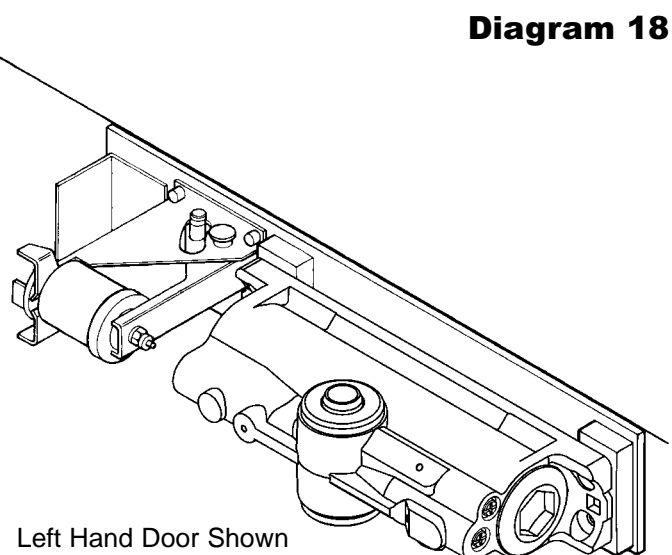


Diagram 19

- 6) Connect wiring to electro magnet terminals and complete wiring installation through rear entry or side connecting conduit, refer to diagram 1 on main instruction sheet.

DETERMINE WHETHER UNIT IS TO HOLD DOOR OPEN OR ALLOW IT TO 'FREE-SWING' AND AT WHAT ANGLE FOR EITHER FUNCTION, THEN PROCEED AS FOLLOWS.

SETTING ARM SET FOR HOLD OPEN

85° to 95° RANGE OF HOLD OPEN (only this range of hold catch open angle possible for Fig. 61).

- 1a) Couple main arm of arm set to catch plate by inserting bolt through centre slot.

See Diagram 20

- 1b) Insert arm set spindle into bottom of closer at 90° to backplate and secure with arm retaining screw.

See Diagram 21

- 2a) Pull main arm **towards** hinge until bolt is restricted and tighten nut. (THIS WILL GIVE MINIMUM HOLD OPEN POSITION).

- 3a) Insert strip into secondary arm and nylon bush into strip end. Connect strip end to arm bracket and secure with domed starlok washer.

See Diagram 22

Pull main arm over until secondary arm is 90° to head frame and set arm length with small screw and washer.

See Diagrams 22 & 23

- 4a) Switch power on to energise unit magnet and open door until hold open is achieved.
 5a) Slacken nut and move door to required hold open angle, then **securely** re-tighten nut.
 6a) Check that door will be released from this angle by de-energising the unit magnet.

IMPORTANT:
A washer must be inserted between catch plate and arm

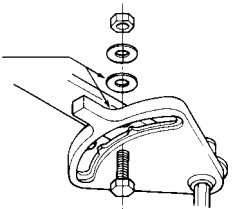
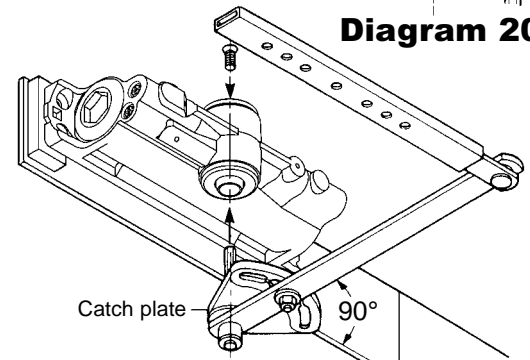


Diagram 20



Right Hand Door Shown **Diagram 21**

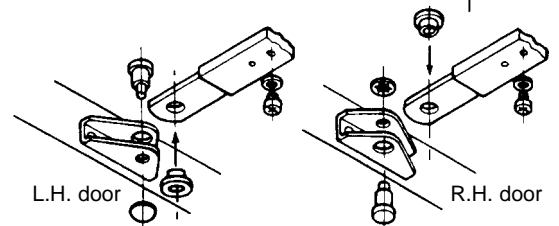
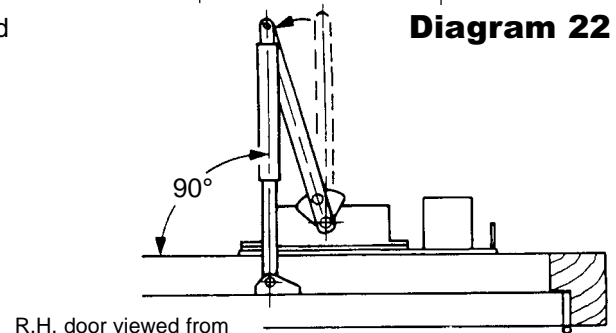


Diagram 22



R.H. door viewed from under head frame **Diagram 23**

SETTING ARM SET FOR FREE SWING (85° to 95° variance)

- 1c) Insert arm set spindle into bottom of closer at 90° as paragraph 1a and Diagram 20.
 2c) Insert bolt into elongated slot **furthest** away from hinge. Place spacer over bolt and retain with nut Lock spacer down in the 85° position.

See Diagrams 24 and 25

- 3c) Assemble secondary arm and set length, connecting arm to arm bracket all as paragraph 3a).

See Diagrams 22 and 23

- 4c) Switch power on to energise unit magnet and open door until catch plate engages claw and door free swings. **To increase free swing angle** slacken nut, hold door at required free swing angle. **Ensure spacer is bearing against side of arm** before securely re-tightening nut

- 5c) De-energise unit magnet and check that claw releases catch plate causing door to close into its frame rebate.

Note: Bolt re-inserted through catch plate slot only

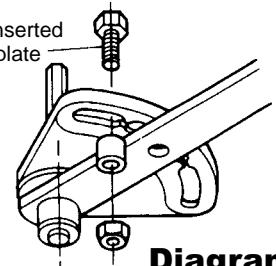


Diagram 24

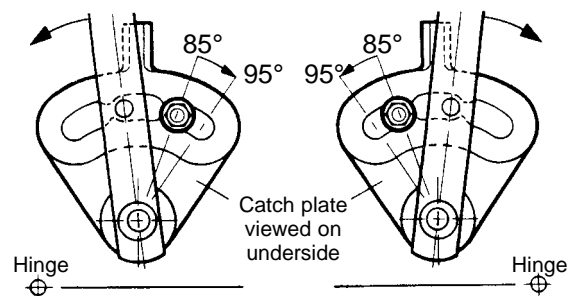


Diagram 25

ADJUSTMENT TO CLOSER

See Diagram 15 on main instruction sheet.

Finally secure cover with two small screws.

TESTING UNIT and MAINTENANCE: Refer to main instruction sheet.