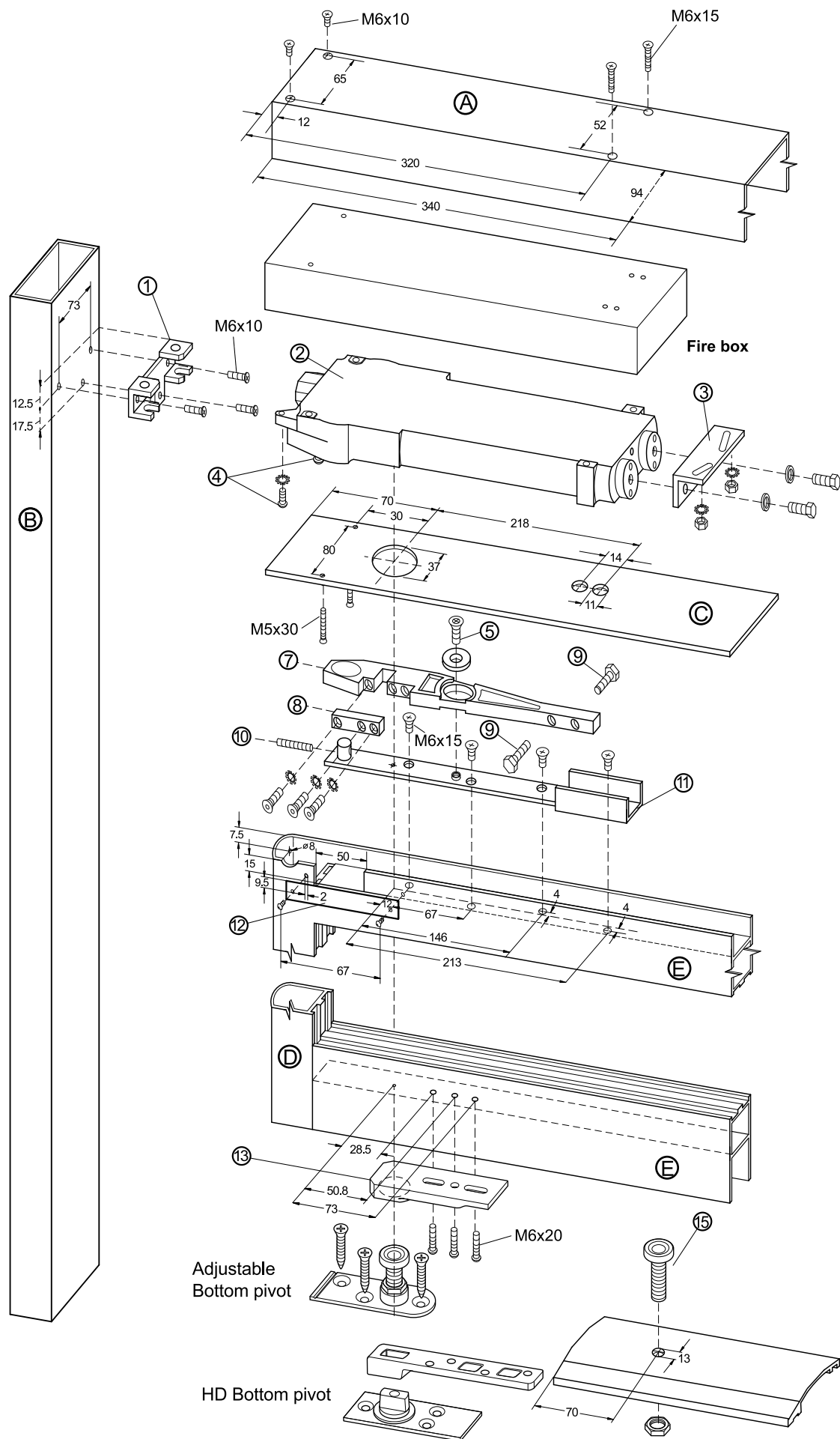




LOCKWOOD 9800 SERIES
CONCEALED OVERHEAD DOOR CLOSER
INSTALLATION INSTRUCTION
CENTRE PIVOTED - DOUBLE OR SINGLE ACTING



Lockwood 9800 series is a double acting door closer which is installed inside the transom above the door. A rebate or stop on the door frame or transom converts **Lockwood** 9800 series into a single action closer. Special installation drawings should be applied for when doors are hung on offset pivots or butt hinges. Drawings must be provided when applying for these details.

Preparations of frames

(A) Header

Mill out section of 340 x 94mm as shown on drawing. If a rectangular tube is used, a ridge of approximately 8 mm may be left on hinge-end of header. For attachment of closer (2) drill 4 holes in header. C-sink 2 holes on hinge-end side, tap M6 on opposite side.

(B) Vertical jamb

Drill and tap 3 holes for attachment of closer mounting bracket (1). Join header to vertical jamb by means of mounting bracket (1) and tighten securely.

(C) Cover plate

Drill all holes according to installation template. Tapped holes in closer body (M5) are provided for attachment of cover plate if direct attachment to header is not possible.

Installation of closer

Mount angle bracket (3) to closer. Insert mounting screws (4) loosely on spindle side of closer. Fit closer into mounting bracket (1). Tighten slotted cylinder screw on opposite end of closer. Closer should be positioned in centre of header. Now tighten screws on spindle side. Fit cover plate (C).

Preparation of door sections

Determine type of installation, side-load or end-load. Mill hinge stile according to side-or end-load drawing (E).

The hole centres for arm channel (11) door portion of pivot (13) and 8 mm hole on hinge stile, may be drilled before or after the door is assembled. It is important that all accessories are fitted centrally.

For side-load installation provide notch, 15x50mm, on inside of door for access to closer arm and clamping piece (3). Drill holes for attachment of name plate (12).

Fitting of accessories

Install arm channel (11) and door portion of pivot (13) and tighten securely. Place closer arm (7) into arm channel. Milled section of arm must face notch in top rail. Insert hex. socket screw (5) loosely. Use lateral adjustment screw (10) to set proper pivot point of door (70 mm from side frame).

Floor portion of pivot (14) may be cut to suit bottom rail of door and desired clearance between door and floor. Threshold pivots (15) are available for use with bottom rails of 25.4mm(1") and 42mm(19/16") channel depth.

Mount floor portion of pivot (14) or (15) to floor or threshold and tighten securely.

Fitting of door Side-load installation

Grease floor portion of pivot (14) (15). Hold door parallel to frame and set onto floor pivot (14) (15). Notch on door must face inside. Push door into a vertical position and connect clamping piece (8) with closer spindle. Tighten screws evenly. Fit name plate (12).

Door adjustment

Proper clearance of door can be regulated with lateral adjustment screw (10). Adjustment screw must always sit fully against closer arm (7).

Neutral position of double action door is regulated with hex. head support screws (9). (Lock tightly in opposite directions). On centre-hung, single action doors the closer arm is adjusted off centre towards direction of opening. (One hex. head screw (9) may be omitted to get max. end-force). Securely tighten hex. socket screw (5).

Adjustment of closing speed

The closing speed can be regulated with two valves. The regulating valve furthest from closer spindle regulates the closing speed over the full range. The valve nearest to the closer spindle allows the speed to be increased in the area from maximum opening to 20°, without affecting the final phase of 20° - 0°.

Turn valves clockwise for slower and counter-clockwise for faster closing speed.