# ORDER OF ASSEMBLY AND INSTALLATION

## Tools Required

<table>
<thead>
<tr>
<th>Item</th>
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<tr>
<td>Drill bits: 5/8&quot;, 11/64&quot;, 13/64&quot;</td>
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<td>Tap: 1/4&quot; - 20</td>
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<td>Tape measure</td>
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<td>Saw horses</td>
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<td>Slot tip screwdriver</td>
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<td>Framing square/straight edge</td>
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<td>Masking tape</td>
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<td>Center punch</td>
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<td>Flat File</td>
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<tr>
<td>Round File</td>
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<td>Jigsaw with metal cutting blade</td>
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<td>Allen wrenches</td>
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<td>Torx T-10 Driver</td>
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## PARTS IDENTIFICATION

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<td>B</td>
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## PARTS IDENTIFICATION

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<td>Slotted Dogging Pin Assembly</td>
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<td>Rod Silencer</td>
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DOOR PREPARATION

REMOVE DOOR

1. Place door horizontally on stands with the interior side up.

2. Mark stile Y-lines, 1-1/8" (28.6) from outside edge for all stile widths (Fig. 1).

3. Mark stile X-lines per template instructions (Fig. 2).

4. Attach corresponding templates (Fig. 2).

FIG. 1

FIG. 2
DOOR PREPARATION – TEMPLATE SELECTION
1085 PANIC BAR WITH LOCK CYLINDER AND MOUNTING PAD

FIG. 3

INTERIOR VIEW
ACTIVE STILE

Drill and Tap for a 1/4"-20 Shoulder Stud

1085 Active Pad
Mounting Inside Face

Drill and Countersink for a 8-32 FHMS

35" (889) to Bottom of Door from this line

10-474 - REV. F Templates from Box

FIG. 4

EXTERIOR VIEW
ACTIVE STILE

Lock Mounting 10-476 Rev G
Outside Face

Clearance Holes
Drill for 8-32 FHMS

35" (889) to Bottom of Door from this line

10-476 - REV. G Templates from Box

NOT TO SCALE
DOOR PREPARATION – TEMPLATE SELECTION
1085 PANIC BAR AND LOCK CYLINDER WITH EXTERIOR TRIM

FIG. 5

INTERIOR VIEW
ACTIVE STILE

Drill and Tap for a 1/4"-20 Shoulder Stud

1085 Active Pad Mounting Inside Face

Drill and Countersink for a 10-24 FHMS

35" (889) to Bottom of Door from this line

Outside Edge

FIG. 6

EXTERIOR VIEW
ACTIVE STILE

Clearance Hole Drill for 10-24 FHMS

Outside Trim
Outside Face 10-987 Rev C

35" (889) to Bottom of Door from this line

Clearance Hole Drill for 10-24 FHMS

Outside Edge

10-474 - REV. F Templates from Box

10-987 - REV. C Templates from Box

NOT TO SCALE
DOOR PREPARATION – TEMPLATE SELECTION
1085P PADDLE INSTALLATION ONLY

FIG. 7

10-474 - REV. F Templates from Box

Drill and Tap for a 1/4"- 20 Shoulder Stud
Also Used for Inactive Side.

3 1/8 (89.9) to Bottom of Door from this line

1085 P Active Pad Mounting
Inside Face

INTERIOR VIEW
ACTIVE STILE

Outside Edge

Outside Edge
DOOR HARDWARE INSTALLATION – OPTIONAL DOGGING STEP
REMOVE DOGGING PAWL ONLY IF USING OUTSIDE CYLINDER LOCK

INSTALLATION:

1. Remove the two screws and Dogging Hold Down Bracket (included in Cat. No. 30916).

2. Remove Dogging Pawl (included in Cat. No. 30916).

3. Re-attach the Dogging Hold Down Bracket and screws.
   **NOTE:** Left screw is longer than right screw.

4. Refer to page 11 for Mortise Cylinder installation.

**NOTE:** Use 1” Mortise Cylinder, such as Part No. DL2170, with the 1085 Series Door Hardware.

FIG. 8

NOT TO SCALE
DOOR HARDWARE INSTALLATION (CONTINUED)

INSERT ROD AND CASE (ALL MODELS)

1. Insert the panic device rod and case assembly into active stile (Fig. 9).

2. Align actuator pin through the slotted cut-out on interior face of stile, fastening with (2) A 1/4"- 20 x 1/4" shoulder stud bolts (Fig. 10).

3. Adjust top and bottom rod guide bolts, to extend 1/2" past the frame on both top and bottom stiles.

4. Install the top bolt guide assembly (3) B #10 x 1/2" FH self tapping screws at both the top and bottom of active door stile. (2) holes on the interior face of stile and (1) hole on the exterior face of stile.

5. Install the bottom bolt guide assembly (3) B #10 x 1/2" FH self tapping screws at both the top and bottom of active door stile. (2) holes on the interior face of stile and (1) hole on the exterior face of stile.
DOOR HARDWARE INSTALLATION (CONTINUED)

INSTALL OPTIONAL MORTISE CYLINDER

1. Insert Mortise DL2170 into Mortise Cylinder Mounting Pad 30821J and secure with Cylinder Lock Ring (Included) (Fig. 11).
2. Attach to exterior Active Stile with (2) #8 x 2" FHMS.
DOOR HARDWARE INSTALLATION (CONTINUED)
INSTALL BODY AND ARM ASSEMBLIES

1. Insert the (2) A 1/4"- 20 x 1/4" Shoulder Bolts on both Active and Inactive Stiles (Fig. 12).

2. Attach Active Body and Arm Assembly using (3) C 1/4"- 20 x 1/4" Set Screws (Fig. 13).

3. Attach Actuator Link, hook slotted end of J Actuator Link over Spring Pin (Fig. 14).

4. Attach Inactive Body and Arm Assembly using (3) C 1/4"- 20 x 1/4" Set Screws (Fig. 15).
**DOOR HARDWARE INSTALLATION (CONTINUED)**

**CUT AND INSTALL PANIC BAR**

**CRITICAL NOTE:**
Panic Bar must be cut within 1/16” (1.6 mm) of correct size to fit and work properly.

1. Measure the Panic Bar from the inside edge of the left side body arm assembly to the inside edge of the right side body arm assembly as shown in (Fig. 16).

2. Cut and debur the Panic Bar to dimension "A" (Fig. 16).

3. Loosen the inactive body and arm assembly, insert panic bar into the arm cavities then secure arm assemblies.

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**FIG. 16**

- Left Assembly
- Set Screws
- Right Assembly

Measure from the inside of the left and right body Arm Assemblies

Outside Edge

"A"
INSTALL 1085P PADDLE VERSION (HANDED)

FIG. 17

(2) 1/4"-20 x 1/4" Shoulder Stud Bolts

(3) 1/4"-20 x 1/4" Set Screws

ACTIVE STILE
DOOR HARDWARE INSTALLATION (CONTINUED)
INSTALL OPTIONAL HANDLE TRIM

NOTE: Handle Trim must be installed before Panic Exit Device or Paddle.
DOOR HARDWARE INSTALLATION (CONTINUED)

RETRACT TOP AND BOTTOM ROD BOLTS

Retract the Top Guide Rod Bolt by turning clockwise. Repeat the procedure for the Bottom Guide Rod Bolt. Both should be flush or slightly below the stile end.

FIG. 19

The Top Guide Rod Bolt

The Bottom Guide Rod Bolt

Use Guide Rod Bolt Adjustment Tool provided

Rod Bolt must be flush or slightly below top of stile before installing door.

Rod Bolt must be flush or slightly below bottom of stile before installing door.
DOOR INSTALLATION

1. After Rod Bolts are adjusted (retracted), depress the handle and dog in the closed position.

2. Install the door and attach to closer (if required).

FIG. 20
FRAMES PREPARATION

HEADER AND THRESHOLD PREPARATION

**WARNING:** Hump Strike Plate must be used for proper operation.

**NOTE:** Check slide for free movement after installation.

**NOT TO SCALE**

**INTERIOR**

**EXTERIOR**

**FIG. 21**

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**FRAME PREPARATION**

**HEADER AND THRESHOLD PREPARATION**

**HEAD PREPARATION**

1. With Door closed in a relaxed position, extend Guide Rod Bolt and mark Header.

2. Hold Strike in place and mark Guide Rod Bolt receiver hole and screw holes.

3. Drill and notch Stile.

4. Attach hardware as illustrated.

**THRESHOLD PREPARATION**

1. Extend Rod Guide Bolt and mark Threshold.

2. Hold Bottom Strike in place and mark Guide Rod Bolt receiver hole and screw holes.

3. Drill and notch Stile.

4. Attach Bottom Strike as illustrated.

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**HEADER**

**INTERIOR**

**EXTERIOR**

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**NOTE:** Check Trip Release for free movement after installation.

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**NOTE:** Flat Surface of Rod Bolt must face outward after final adjustment, parallel to Door Stile.

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**NOT TO SCALE**

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GUIDE ROD BOLT FINAL ADJUSTMENT

1. With the panic device fully depressed, turn Bottom Guide Rod Bolt clockwise to extend downward past bottom edge of the door. With Rod Adjustment tool, set rod height at 1/16" (1.6) above bottom Strike Plate. In a fully closed and relaxed panic condition, Rod Guide should extend 3/8" (9.5) into threshold strike.

2. With panic bar fully depressed, adjust the Top Guide Rod Bolt 1/16" (1.6) and not to exceed 1/8" (3.2) gap from header. In a fully closed and relaxed panic condition the Top of upper Rod Bolt will extend into header 3/8" (9.5).

NOTE: Turn Top and Bottom Guide Rod Bolts using the included wrench so that a flat surface aligns with door face.
DOGGING PIN OPTIONS

REMOVING STANDARD DOGGING PIN, REPLACE WITH THUMBTURN DOGGING PIN

1. Depress Handle and remove the #10 Torx Set Screw. (Fig. 23).

2. Remove Standard Dogging Pin as shown (Fig. 24).

3. Depress Handle, insert new Thumbturn Dogging Pin and Spring. Lock down with #10 Torx Set Screw, then release Handle. (Fig. 25).
## PACKAGED PARTS AVAILABLE

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<th>Part No.</th>
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