9700/F9700 SERIES
RIM EXIT DEVICE

Index:

Screw chart  __________  1
Tools required  __________  2
Outside trim options  ______  3
"03" Additional door prep  4
Device installation  ______  5-8
Options available  ______  9-11
5300 retro-fit preparation  12
Spotting template  ______  13

Note: One set of instructions should be left with building owner after device has been installed.
SCREW CHART

(2) 12-24 x 1" R.H.P.M.S. (Metal or Thru Bolts)  
(2) #12 x 1 1/4" R.H.P.T.S. (Wood Door)  
(6) 8-32 x 3/8" F.H.P.M.S.  
(2) #10 x 1" F.H.P.T.S. (Wood Door)  
(2) 10-32 x 5/8" F.H.P.M.S. (Metal)  
(6) #12 x 1" F.H.P.T.S. (Wood Door)  
(2) 12-24 x 1" R.H.P.M.S. (Metal or Thru Bolts)  
(2) #12 x 1 1/4" R.H.P.T.S. (Wood Door)  
(2) 10-32 x 5/8" F.H.P.M.S. (Metal)  
(2) #10 x 1" F.H.P.T.S. (Wood Door)  
(2) 10-32 x 3/8" F.H.P.M.S. (Metal)  
(2) #10 x 1" F.H.P.T.S. (Wood Door)  
(6) 12-24 x 3/4" O.H.P.M.S. (Metal)  
(6) #12 x 1" F.H.P.T.S. (Wood Door)  
(2) 10-32 x 3/8" F.H.P.M.S. (Metal)  
(2) #10 x 1" F.H.P.T.S. (Wood Door)  
Chassis Mounting
End Cap Bracket
Chassis Cover & End Cap
Strike Mounting
Read the entire instruction sheet prior to installation.

Before Installing Hardware:

1. Door should be fitted and hung.

2. Verify door width, handing and product with carton label for correct exit device & length. (See Step 9)

3. For hand reversal of outside lever trim see page 3.

NOTE:
If device is to be installed over glass lite panels, glass lite shim kit may be required order GK9200.

TYPICAL APPLICATIONS

SPECIAL TOOLS FOR INSTALLATION

12-24 Tap, 10-32 Tap
Drill bits: 1/8", 3/8", #25, #16, #21
Hole saw 1 1/4" diameter for trim (if required) or jig saw.
5/32" Allen wrench for lever trim.
**TYPICAL OUTSIDE TRIM INSTRUCTIONS**

**LHRB TRIM SHOWN  RHRB OPPOSITE**

**Note:** When used with narrow stiles, consult door manufacturer for compatibility.

**TRIM INSTRUCTIONS**

**TYPICAL OUTSIDE**

- OP02
- ZODT
- ZP25
- ZP02
- ZP03/04
- ZP11/ZP12
- ZR23
- ZK23
- ZK08/09
- ZR08/09
- ZC23
- ZT23
- ZG23
- ZC08/09
- ZT08/09
- ZG08/09

**IMPORTANT**

**Note:** All lever handles except for "clutch" are shipped unattached. To install; **Place handle in desired position and attach with allen screw located in back of trim plate.** 5/32" Allen wrench required. To change hand on "clutch" trim rotate and "break" lever around to desired hand.

**All trims are free wheeling.** (Handle will rotate when locked.)

For functions "09" & "12" operation a **DORMA #09 cam** is required. Remove key, install cylinder as shown then cam as shown, legs of cam straddle actuator.

Key removed.

**Locked position**

"09" Cam

Conventional 1 1/8" rim cylinder #80R20SC with tail piece, keyed differently to a random combination supplied with functions "03" & "04" trim unless otherwise noted.

Conventional 1 1/8" mortise cylinder #90X13SC118 supplied with DORMA #13 cam, keyed differently to a random combination supplied with functions "08" & "11" trim unless otherwise noted.

**Tighten Securely**
**9700/F9700**

Rim Exit Device
RHR Shown
LHR Opposite

Required for "03" & "04" function on device with cylinder only and no trim.

*(NOT TO SCALE)*

**NOTE:** "04" function not available on fire rate device. "Fire rated devices can not be dogged."

- **7/32" DIA. HOLE DIA. (2) PLACES**
- **13/16"**
- **1/4"**
- **3/8" DIA. HOLE (DEVICE SIDE ONLY)**

**IMPORTANT NOTE:**
Hole dimensions may vary, when using cylinder by other manufacturer's use backplate supplied with cylinder as drilling template.

**INSIDE FACE OF DOOR (DEVICE SIDE)**

**OUTSIDE FACE OF DOOR (TRIM SIDE)**

**VERTICAL REF. LINE (CENTERLINE OF CHASSIS)**

**HORIZONTAL REF. LINE**

**EDGE OF STOP OR MULLION**

**VERTICAL REF. LINE (CENTERLINE OF CHASSIS)**

**NOTE:** If using 80CK cylinder adapter kit with trim; hole diameter required is 1 3/8".

**NOTE:** If using 80CK cylinder adapter kit with trim; hole diameter required is 1 3/8".

**HOLE DIMENSIONS:**
- **1/4"**
- **3/8" DIA. HOLE (DEVICE SIDE ONLY)**
- **1 3/16" DIA. HOLE (TRIM SIDE ONLY)**

**IMPORTANT NOTE:**
Hole dimensions may vary, when using cylinder by other manufacturer's use backplate supplied with cylinder as drilling template.

**NOTE:** "04" function not available on fire rate device. "Fire rated devices can not be dogged."
Open box, layout all parts and verify prior to starting installation. See page (1) one for parts. Note: If this is a retro-fit from current 5300 series see page 12 prior to proceeding.

**Door preparation**

Based on 1/2" threshold and 3/16" clearance between threshold and door after door is hung.

Based on 1/2" blade stop "cut out"; if using trim dimensions may vary. See proper device and trim templates.

Vertical reference line

Backset or vertical reference is measured from outer edge of door as shown. Minimum stile is less glass stop.

**Type of installation**

<table>
<thead>
<tr>
<th>Minimum vertical ref. of chassis</th>
<th>Minimum Stile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pull only</td>
<td>&quot;Z&quot; trim</td>
</tr>
</tbody>
</table>

**Single door 1/2" blade stop**

- 1 3/8" Standard #430 strike
- 1 1/2" For #463 or #486 strike
- 7/8" For #443 strike

**Pairs and double egress**

- 1 1/4" 1 5/8" 2 1/8"

**Edges of Stop or Mullion**

- 7/8" Standard #443 recessed strike
- 1 1/2" For standard #463 & 486 strike
- 1 1/2" For standard #463 & 486 strike
3 Prepare frame for strike

For metal frame: No. 21 drill x 10-32 tap
For wood frame: 1/8" drill for pilot hole

For metal frame: No. 16 drill x 12-24 tap
For wood frame: 1/8" drill for pilot hole

Strike angle (Fire rated device only) must be installed on rated openings.

For metal frame: No. 21 drill x 10-32 tap
For wood frame: 1/8" drill for pilot hole

4 If not done layout device on door using drilling template T9700 located at rear of booklet.
For additional templates contact DORMA at 1-800-523-8483 or www.dorma-usa.com

Refer to carton label for model and trim number prior to drilling.
Prepare mounting holes and cut-outs per template.

VERTICAL REF. LINE
(See Backsets on page 5.)

HORIZONTAL REF. LINE

Verify all holes prior to drilling.
Prepare to install touch bar and rail on door.

**NOTE:** All dimensions are based on 1/2" stop height; Verify strikes, stile width, any trim and stop height prior to making any cuts. If cutting is required follow instructions below.

**Size AA:**
- Fits 48" door opening without cutting.
- Can be cut to fit a 32 1/2" minimum door opening.

**Size BB:**
- Fits 36" door opening without cutting.
- Can be cut to fit a 26 1/2" minimum door opening.

**Size CC:**
- Fits 36" door opening with out cutting. Using a shorter touch pad then the standard "B" size allows it to be cut to 23 1/2" door opening.

Verify device length with box label; "AA", "BB" or "CC", ie. 9700BB

**Note:** Models with prefix options such as "ES", "DE" etc. may not be cut down to minimums shown to left. Consult factory or catalog for details.

**Example:**
- Standard "BB" touch bar and rail 31 1/2"

**Note:** If door opening width is less then standard touch bar will have to be cut down. ie: door opening width 34" subtract 2" from rear of touch bar and rail, tape and cut to length as shown.

**IMPORTANT**
Use caution when cutting touchbar and rail to size on models with "ES", "MS", "LM" or "DWA" prefix options. These units contain internal wiring.
For models with prefix options "BPA", BPAR" or "DE" remove filler containing electronics before cutting.

**10 Secure chassis to door as shown.**

Metal - (2) 12-24 x 1 1/2" R.H.P.M.S.
Wood - (2) #12 x 1 1/4" R.H.P.T.S.
(For other options; trim, thru bolts, etc. see below.)

**F9700 Series chassis assembly**

**Strike angle (Must be installed)**
(2) 12-24 F.H.P.M.S.

(2) 12-24 R.H.P.M.S.

(4) 12-24 O.H.P.M.S.
11 Install touch bar and rail assembly and end cap to door.

Remove two 8-32 screws from chassis, slide touch bar and rail assembly under rear of chassis. **Note: If device has prefix “ES” ensure that pins in lever bolt align with slots in actuator located inside nose of touch bar.** See instruction sheet IES-7 packed with device. Install (2) two 8-32 x 3/8" P.H.P.M.S. to secure touchbar to chassis.

Hold rear mounting bracket tightly against door and rear of rail. Mark (2) two holes and drill per chart. Secure with proper fasteners.


Remove protective covering from the touchbar and rail assembly prior to installing on door.

Metal/thru-bolts - (2) 12-24 x 1” F.H.P.M.S.
Wood - (2) #12 x 1 1/4” F.H.P.T.S.

For the following models prefixes: “ES”, “MS”, “LM” or “DWA” drill an additional 1/2" diameter hole as shown. See options pages at rear for additional information.

12 Install center case cover and end cap.

(6) 8-32 x 3/8" P.H.F.H.M.S.
Start all (4) screws prior to tightening.

13 Check dogging operation (if equipped).

Standard hex key dogging, depress touch bar, insert supplied hex key and rotate clock wise to dog and counter clock wise to undog.
OPTIONS

"CD" (CYLINDER DOGGING) OPTION:
Cylinder dogging installation instructions & cylinder specifications.

Note: DORMA mortise cylinder supplied. To use other manufacture cylinders, "L" less cylinder is available.

Useable Cams
Arrow 001
Assa Std. (Yale)
Best C136
Falcon 12667-3
DORMA 10
Ilco/Unican SC1
Lori SC1 4200-82-2002 Std.
Sargent 13-0664 or 13-0660
Schlage 001
Yale 2160

Witness Marks
Correct
In-correct

"BPA" & "BPAR" (ALARM) OPTION:
FOR DIRECT WIRED SEE NEXT PAGE
BPA: Battery powered alarm, sounds continuous or until disarmed.
BPAR: Battery powered alarm, sounds for 4 minutes, automatically resets.

"Alarm mode set at factory."

"LM" (LATCH MONITOR) OPTION:
Latch monitor: Monitors movement of bellcrank, with or without depressing of touch bar. Can be wired normally open or normally closed.

Note: Touch bar must be in dogged down position, to remove the rear filler panel. Additional hole required see step 11.

Useable Cams
Arrow 001
Assa Std. (Yale)
Best C136
Falcon 12667-3
DORMA 10
Ilco/Unican SC1
Lori SC1 4200-82-2002 Std.
Sargent 13-0664 or 13-0660
Schlage 001
Yale 2160

SIZE A:
Will fit 48" door opening without cutting. Can be cut to fit a 371/2" minimum door opening.

SIZE B:
Will fit 36" door opening without cutting. Can be cut to fit a 31 1/2" minimum door opening.

SIZE C:
Will fit 36" door opening without cutting. Can be cut to fit a 28 1/2" minimum door opening.

"NOTE: Use caution when cutting touch bar and rail to length.

To replace battery remove endcap.

To install customer supplied cylinder, see cylinder dogging option at top of page.

(DORMA mortise cylinder supplied.)

Refer to additional alarm instructions packed with device for operation of alarmed exit device.
OPTIONS

"ES" (ELECTRIC LATCH RETRACTION) OPTION:

Electrically retracts latchbolt(s) when energized by power supply.

REQUIRES DORMA PS501 POWER SUPPLY AND ES105 POWER TRANSFER.

PS501 Will operate (2) "ES" 9600 exit devices, but is capable of powering (2) additional devices by installing the optional "ES-2" card.

*NOTE: Use caution when cutting touch bar and rail to length. Requires additional hole see step 11.

"DWA" (DIRECT WIRED ALARM) OPTION:

Connected to outside power source.
i.e. DORMA ES100 etc.,
Contact DORMA for other power supplies available.

Refer to additional sheet IAL9000 packed with device for operation of alarmed exit device.

DWA Battery Eliminator

8-32 x 1/4" T.H.P.U.C.M.S.

Dorma Power Eliminator

12-24 x 3/4" R.H.P.M.S.

Requires additional hole see step 11.

"MS" (MICRO SWITCH) OPTION:

"MS" option allows monitoring of touch bar during normal operation, or can be used as a signal switch for horn, light etc.
Comes standard with (2) two micro switches. Both can be wired either Normally Open or Normally Closed. Can be added to device after installation.

*NOTE: Use caution when cutting touch bar and rail to length. Requires additional hole see step 11.

"MS" option allows monitoring of touch bar during normal operation, or can be used as a signal switch for horn, light etc.
Comes standard with (2) two micro switches. Both can be wired either Normally Open or Normally Closed. Can be added to device after installation.

-NOTE: Use caution when cutting touch bar and rail to length. Requires additional hole see step 11.

NOTE: Touch bar must be in dogged down position, to remove the rear filler panel.

SPDT, .5 amp @ 28VDC max.

Dorma Power Eliminator

Black Common
Green Normally Open
Red Normally Closed

Note: Normal switch position shown, once installed normally open and closed positions are reversed.
Minimum 18 AWG wire recommended for 24VDC inputs (red & black) leads.

85 Decibel Alarm - Standard
LED Status Indicator - Standard
Nuisance Alarm - Standard
Key Switch Control - Standard
Remote Authorized Egress - Standard
Remote Re-Arm - Standard
Remote Bypass - Standard
Door Position Input - Standard, DIP Switch Setting
Auto Reset or Manual Reset, DIP Switch Setting
Auto - Standard (Manual - in CA)
Additional Form "C" Relays For Optional Horn etc. (Rated 1 amp @ 30 vdc)

"DE" (DELAYED EGRESS) OPTION:

Note: Refer to DE9000 Series Installation Instructions for additional instructions for installation and operation of the "Delayed Egress" exit device.

85 Decibel Alarm - Standard
LED Status Indicator - Standard
Nuisance Alarm - Standard
Key Switch Control - Standard
Remote Authorized Egress - Standard
Remote Re-Arm - Standard
Remote Bypass - Standard
Door Position Input - Standard, DIP Switch Setting
Auto Reset or Manual Reset, DIP Switch Setting
Auto - Standard (Manual - in CA)
Additional Form "C" Relays For Optional Horn etc. (Rated 1 amp @ 30 vdc)

REQUIRES DORMA ES-105 24 VDC POWER SUPPLY.
One supply per device unless the optional ES101 Time Delay is used to sequence the arming of the two devices.

Easily accessible slide in and out electronics.
Meets UL & ANSI/BHMA requirements.

SIZE AA:
Will fit 48" door opening without cutting.
Can be cut to fit a 39 1/2" minimum door opening.
SIZE BB:
Will fit 36" door opening without cutting.
Can be cut to fit a 32" minimum door opening.

NOTE: Some CA Codes may require different verbiage; check local code requirements prior to installing decal.

OPTIONS

"DE" (DELAYED EGRESS) OPTION:

Note: Refer to DE9000 Series Installation Instructions for additional instructions for installation and operation of the "Delayed Egress" exit device.

85 Decibel Alarm - Standard
LED Status Indicator - Standard
Nuisance Alarm - Standard
Key Switch Control - Standard
Remote Authorized Egress - Standard
Remote Re-Arm - Standard
Remote Bypass - Standard
Door Position Input - Standard, DIP Switch Setting
Auto Reset or Manual Reset, DIP Switch Setting
Auto - Standard (Manual - in CA)
Additional Form "C" Relays For Optional Horn etc. (Rated 1 amp @ 30 vdc)

REQUIRES DORMA ES-105 24 VDC POWER SUPPLY.
One supply per device unless the optional ES101 Time Delay is used to sequence the arming of the two devices.

Easily accessible slide in and out electronics.
Meets UL & ANSI/BHMA requirements.

SIZE AA:
Will fit 48" door opening without cutting.
Can be cut to fit a 39 1/2" minimum door opening.
SIZE BB:
Will fit 36" door opening without cutting.
Can be cut to fit a 32" minimum door opening.

NOTE: Some CA Codes may require different verbiage; check local code requirements prior to installing decal.
**DO NOT SCALE**

**Additional installation instructions:**
**New "Z" trim required if using trim.**
Existing strike may or may not have to be adjusted or relocated and replaced.
Install chassis assembly to door, install end cap bracket to door, hold touch bar and rail assembly in position aligning screw holes in rail with mounting screw location of chassis, mark a line on rear of rail where front edge of end cap bracket is then cut touch bar and rail assembly to length.
Install touch bar and rail to door then install all covers.
EXIT DEVICE
9700/F9700 SERIES

NOTE: FOR CYLINDER ONLY
FUNCTION SEE PAGE 4

A FOR WOOD DOOR No. 25 DRILL 1" DEEP
B FOR METAL DOOR No. 16 DRILL 12-24 TAP
C FOR SEX BOLT 3/8" DIA. HOLE THRU DOOR
D FOR USE WITH TRIM 3/8" DIA. HOLE THRU DOOR
G FOR KNOB/LEVER/THUMBTURN 1" DIA. OUTSIDE FACE
1/2" DIA. INSIDE FACE
H FOR KNOB/LEVER/THUMBTURN 1" DIA. OUTSIDE FACE
1 1/2" DIA. x 1 3/4" HIGH FOR CYLINDER CLEARANCE