Instructions for Installing
AD-8600, MD-8600 & 12-MD-8600
Concealed Vertical Rod Exit Devices

SARGENT

ASSA ABLOY

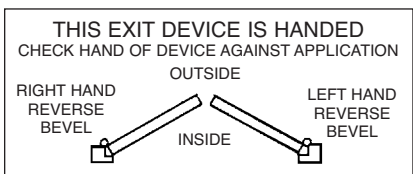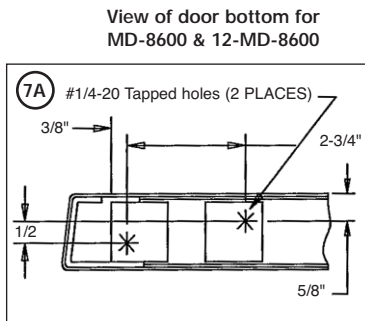For additional information, contact SARGENT at 1-800-727-5477

Verify the correct exit device is being installed on the correct door. Function, finish and size should all be verified. **Note: Before removing door from hinges determine the gap between top of door and frame. Determine smallest gap between bottom of door or threshold and high point of floor as door swings.** This information is needed for step #7. Remove door from the frame.

1) Drill, tap & c'sink the door per template, except for the (2) #10-24 (4A) on the hinge side.

(1A) (2) 7/32" DIA & C'SINK

INSIDE SURFACE OF LHRB DOOR SHOWN

7/8"

POSITION OF MOUNTING SCREW HOLES ARE IDENTICAL FOR EITHER HAND.

1/4"

(4A) DRILL AND TAP HINGE STILE FOR #10-24 SCREW. USE MOUNTING PLATE TO LOCATE HOLES.

(2A) 1-17/32"

(4) #10-24 TAPPED HOLES

(3A) 7/32" DIA

6-11/16"

2 3/4" BACKSET

4-1/2"

¢

1-1/4"

HINGE STILE

7/8"

1/4"

7/32" DIA. C'SINK FOR #10 SCREW

(5A)

36-3/4" UNLESS OTHERWISE SPECIFIED

41" STD. HGT.

¢ OF CHASSIS
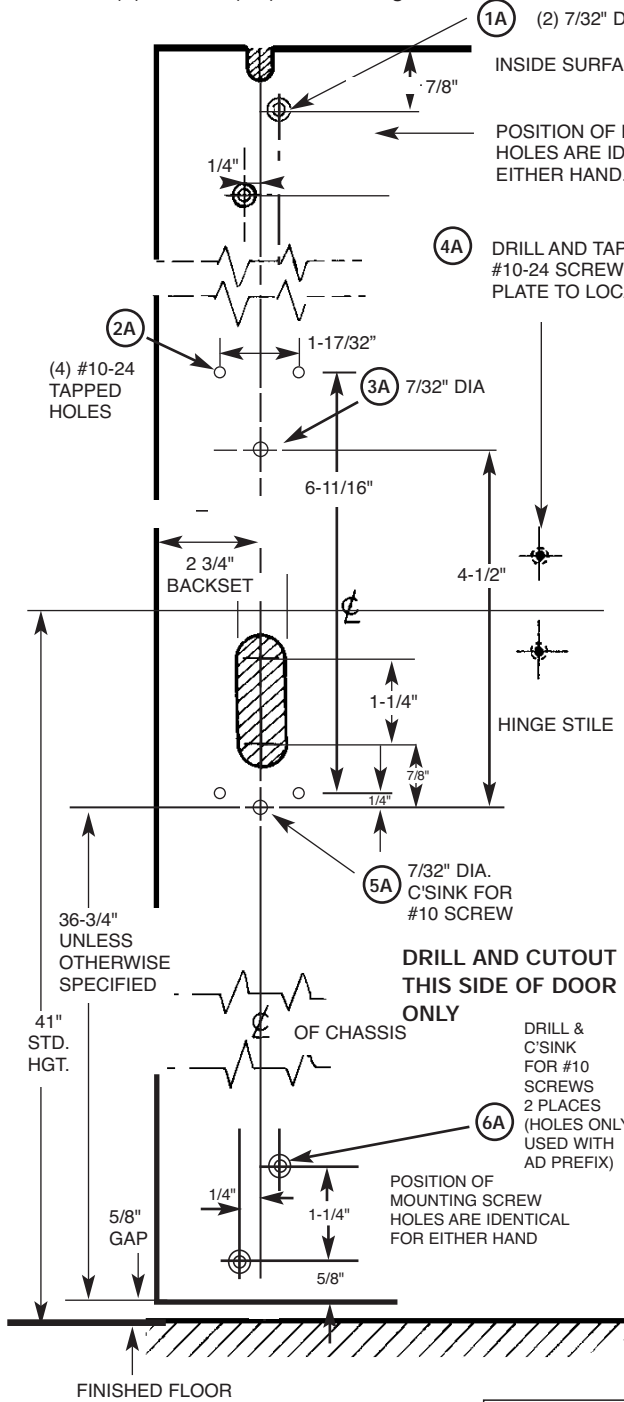
Door prep shown is the same for the MD-8600, 12-MD-8600 and AD-8600 Series exit devices, except for attaching the bottom plate. 12- and MD- is shown separately below.

Note: If 100 Series auxiliary control is being used, door must be prepped for Aux Control prior to installing device on to the door. Aux Control can be installed after exit device is installed. See appropriate instructions.

DRILL AND CUTOUT THIS SIDE OF DOOR ONLY

DRILL & C'SINK FOR #10 SCREWS 2 PLACES (HOLES ONLY USED WITH AD PREFIX)

(6A)

POSITION OF MOUNTING SCREW HOLES ARE IDENTICAL FOR EITHER HAND

5/8" GAP

1/4"

1-1/4"

5/8"

FINISHED FLOOR

View of door bottom for MD-8600 & 12-MD-8600

(7A) #1/4-20 Tapped holes (2 PLACES)

3/8"

2-3/4"

1/2

5/8"

THIS EXIT DEVICE IS HANDED
CHECK HAND OF DEVICE AGAINST APPLICATION

OUTSIDE

RIGHT HAND REVERSE BEVEL

LEFT HAND REVERSE BEVEL

INSIDE

Information for Cutting Rails

Rail Sizes	Door Widths	
	Max	Min
E	32"	24"
F	36"	33"
J	42"	37"
G	48"	43"

2) Screw top bolt & rod assembly (A) and bottom bolt & rod assembly (C) into inner chassis (B).

3) Slide complete assembly into top of door.

4) Attach inner chassis (B) to door with screw (GG) using hole (5A).

5) Then secure with screw (FF) using hole (3A).

Note: If 700 Series ET Controls is being used, it must be installed at this point, prior to step 6. See appropriate instructions.

6) Position chassis (D) over fillister head screw and attach to door with (4) screws (AA) using holes (2A). Do not tighten yet.

Note: Rods must be retracted while adjusting bolt projection. Use Chassis (D) to retract top bolt & rod assy (A) & bottom bolt & rod assy (C).

7A) **Adjusting the top bolt & rod assembly (A)**
   1) 1/8" gap or less between door top and frame. Rotate bolt to make even with top of the door.
   2) 1/8"gap or greater. Bolt to extend above door equal to gap minus an 1/8".
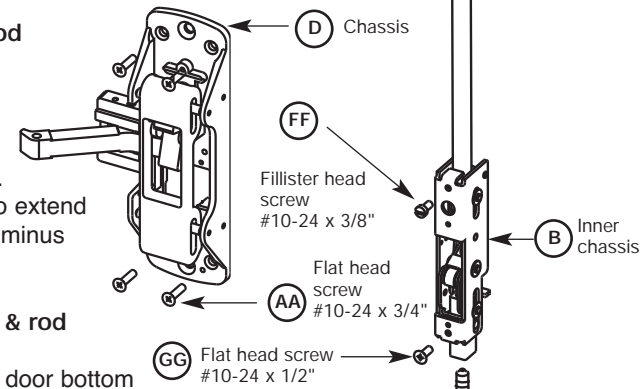
7B) **Adjusting the bottom bolt & rod assembly (C)**
   1) 1/8" gap or less between door bottom & high point. Rotate bolt to make even with bottom of door.
   2) 1/8"gap or greater. Bolt to extend below door equal to gap minus an 1/8".

(D) Chassis

(FF) Fillister head screw #10-24 x 3/8"

(AA) Flat head screw #10-24 x 3/4"

(GG) Flat head screw #10-24 x 1/2"

(A) Top bolt & rod assembly

(B) Inner chassis

(C) Bottom bolt & rod assembly

(AA) Chassis mounting screw metal door application (#10-24 x 3/4" ph. fl.hd. mach. screws, 4 pcs)

(BB) Rail mounting screw (#8-32 x 3/8" ph. truss head machine screw. by finish 2 pcs)

(CC) Cover & end cap mounting screw (#8-32 x 5/16" with #6 ph. ov. u'cut hd. machine screw, by finish 6 pcs)

(DD) Bottom case mounting screw (1/4"-20 x 1/2" ph. fl. hd. mach. screw 2 pcs) [not used with nb prefix]

(EE) End cap mounting bracket (#10-24 x 3/4" ph. rd. hd. mach. screw 4 pcs)

(FF) Aligning and inner chassis screw (#10-24 x 3/8" ph. fillister hd. machine screw, 1 pcs)

(GG) Inner chassis bottom screw & top strike screws (# 10-24 x 1/2" ph. fl.hd.mach. screws, 3 pcs)

(HH) Top case and bottom case mounting screws (#10-24 x 3/8" ph. ov. hd.machine screw, 4 pcs) [Only 2 pcs used with 12 ,MD and NB prefix]

ET mounting screw (1/4"-20 x 2 3/8" ph. fl. hd. mach. screw 2 pcs)
For 1 3/4" door length shown size varies by 1/4" depending on width of cladding or inside panel

STRIKE PACK FOR AD-8600
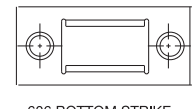
640 TOP AND BOTTOM STRIKE
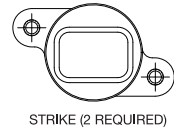
STRIKE (2 REQUIRED)

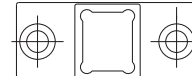#10 X 1/2" PHILLIPS FLAT HEAD MACHINE SCREW (4 IN PACK FOR TOP AND BOTTOM STRIKE)

STRIKE PACK FOR MD-8600 & 12-MD-8600

650 TOP STRIKE

#10-24 X 1/2" PHILLIPS FLAT HEAD MACHINE SCREW (2 IN PACK FOR TOP STRIKE)

606 BOTTOM STRIKE

MACHINE SCREW AND ANCHOR (2 PIECES)

Manual dogging key
(not used with 12-)
To operate: Depress push rail, insert hex key (or cylinder key when used) and turn clockwise.
Not furnished with 12-MD86

Instructions for Installing
NB-AD-8600, NB-MD-8600 & 12-NB-MD-8600
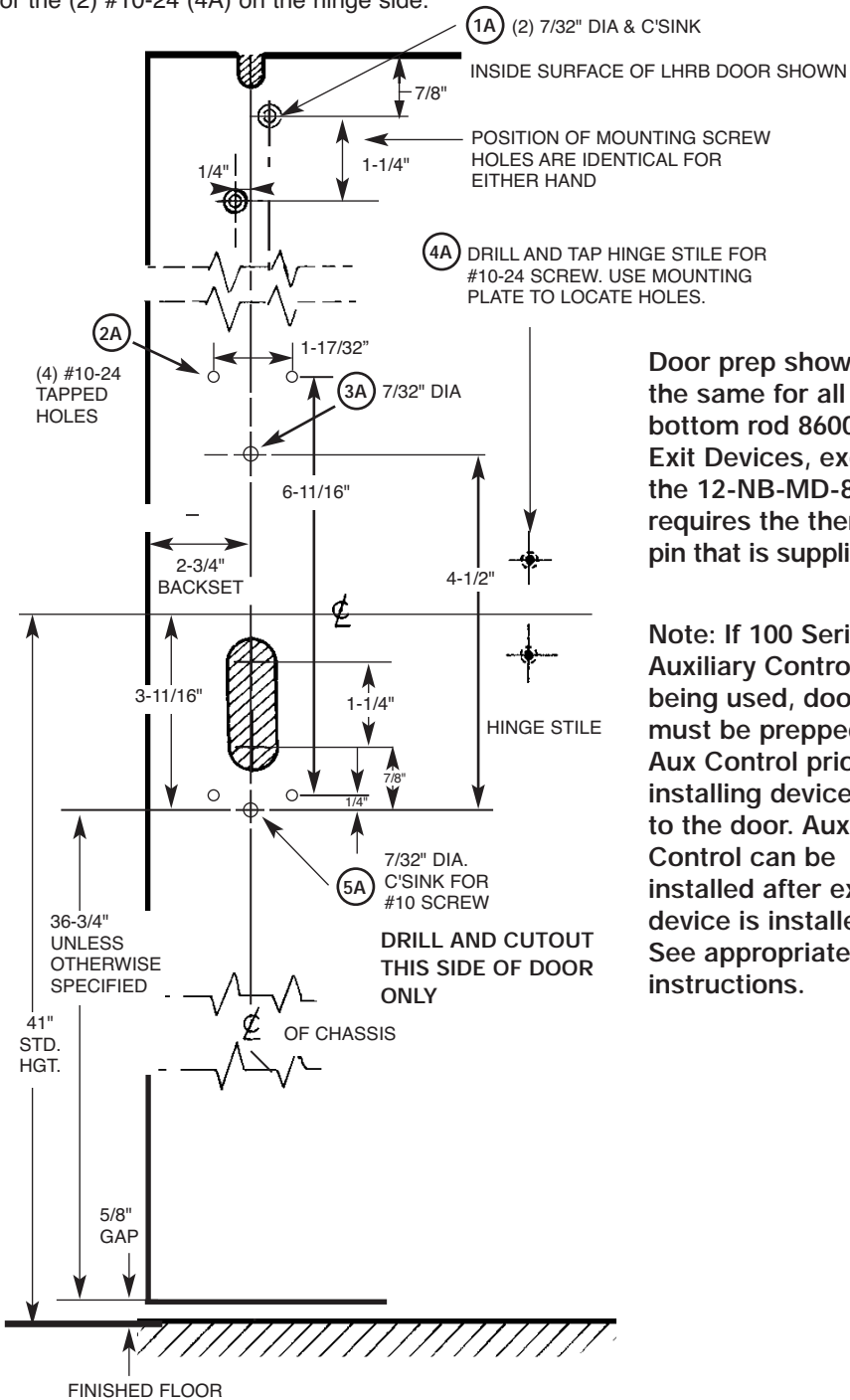# Concealed Vertical Rod Exit Devices
without Bottom Bolt

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For additional information, contact SARGENT at 1-800-727-5477

Verify the correct exit device is being installed on the correct door. Function, finish and size should all be verified.
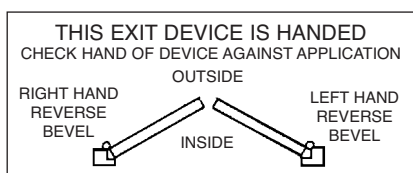
Note: Before removing door from hinges determine the gap between top of door and frame. This information is needed for step #7. Remove door from the frame.

1) Drill, tap & c'sink the door per template, except for the (2) #10-24 (4A) on the hinge side.

(1A) (2) 7/32" DIA & C'SINK

INSIDE SURFACE OF LHRB DOOR SHOWN

7/8"

POSITION OF MOUNTING SCREW HOLES ARE IDENTICAL FOR EITHER HAND

1/4"

1-1/4"

(4A) DRILL AND TAP HINGE STILE FOR #10-24 SCREW. USE MOUNTING PLATE TO LOCATE HOLES.

(2A)

(4) #10-24 TAPPED HOLES

1-17/32"

(3A) 7/32" DIA

Door prep shown is the same for all less bottom rod 8600 Exit Devices, except the 12-NB-MD-8600 requires the thermal pin that is supplied.

6-11/16"

2-3/4" BACKSET

4-1/2"

3-11/16"

1-1/4"

7/8"

1/4"

HINGE STILE

Note: If 100 Series Auxiliary Control is being used, door must be prepped for Aux Control prior to installing device on to the door. Aux Control can be installed after exit device is installed. See appropriate instructions.
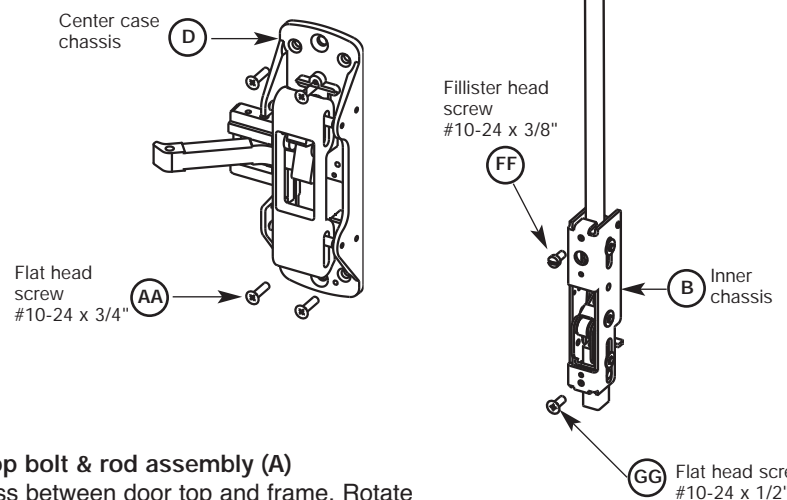
(5A) 7/32" DIA. C'SINK FOR #10 SCREW

DRILL AND CUTOUT THIS SIDE OF DOOR ONLY

36-3/4" UNLESS OTHERWISE SPECIFIED

41" STD. HGT.

OF CHASSIS

5/8" GAP

FINISHED FLOOR

THIS EXIT DEVICE IS HANDED
CHECK HAND OF DEVICE AGAINST APPLICATION

OUTSIDE

RIGHT HAND REVERSE BEVEL

INSIDE

LEFT HAND REVERSE BEVEL

Information for Cutting Rails		
Rail Sizes	Door Widths	
	Max	Min
E	32"	24"
F	36"	33"
J	42"	37"
G	48"	43"

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2) Screw top bolt & rod assembly (A) into inner chassis (B).

3) Slide complete assembly into top of door.

4) Attach inner chassis (B) to door with screw (GG) using hole (5A).

5) Then secure with screw (FF) using hole (3A).

6) Position chassis (D) over fillister head screw and attach to door with (4) screws (AA) using holes (2A). Do not tighten yet. Use chassis (D) to retract top bolt & rod assy (A) to adjust bolt projection.
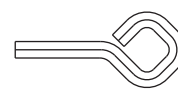
Note: Rod must be retracted while adjusting bolt projection. Use chassis (D) to retract top bolt & rod assy (A).

(A) Top bolt & rod assembly

Center case chassis **(D)**

Fillister head screw #10-24 x 3/8"

(FF)

Flat head screw #10-24 x 3/4" **(AA)**

(B) Inner chassis

(GG) Flat head screw #10-24 x 1/2"

7) Adjusting the top bolt & rod assembly (A)
1) 1/8" gap or less between door top and frame. Rotate bolt to make even with top of the door.
2) 1/8" gap or greater. Bolt to extend above door equal to gap minus an 1/8".

(AA) Chassis mounting screw metal door application (#10-24 x 3/4" ph. fl.hd. mach. screws, 4 pcs)

(BB) Rail mounting screw (#8-32 x 3/8" ph. truss head machine screw. by finish 2 pcs)

(CC) Cover & end cap mounting screw (#8-32 x 5/16" with #6 ph. ov. u'cut hd. machine screw, by finish 6 pcs)

(FF) Aligning and inner chassis screw (#10-24 x 3/8" ph. fillister hd. machine screw, 1 pcs)

(EE) End cap mounting bracket (#10-24 x 3/4" ph. rd. hd. mach. screw 4 pcs)

(HH) Top case mounting screw (#10-24 x 3/8" ph. ov. hd. machine screw 2 pcs)

(GG) Inner chassis bottom screw & top strike screws (#10-24 x 1/2" ph. fl.hd.mach. screws, 3 pcs)

ET mounting screw (1/4"-20 x 2 3/8" ph. fl. hd. mach. screw 2 pcs)

For 1 3/4" door length shown size varies by 1/4" depending on width of cladding or inside panel

Manual dogging key
(not used with 12-)
To operate: Depress push rail, insert hex key (or cyl key when used) and turn clockwise.
Not furnished with 12-MD

STRIKE PACK FOR NB-AD-8600

640 TOP STRIKE

STRIKE (1 REQUIRED)

#10 X 1/2" PHILLIPS FLAT HEAD MACHINE SCREW (2 REQUIRED)

STRIKE PACK FOR NB-MD-8600 & 12-NB-MD-8600

650 TOP STRIKE

STRIKE (1 REQUIRED)

#10 X 1/2" PHILLIPS FLAT HEAD MACHINE SCREW (2 IN PACK FOR TOP STRIKE)