Manuals+ — User Manuals Simplified.

A6660V
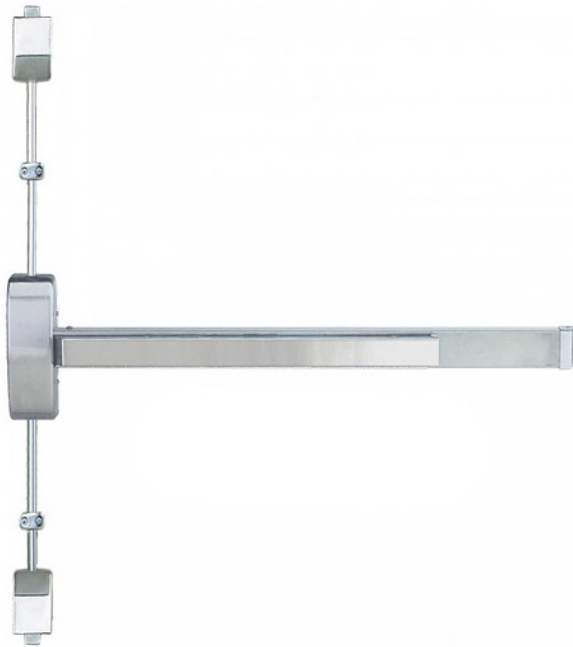SVR Exit
Device

CAL-ROYAL A6660V SVR Exit Device Installation Guide

Contents

CAL-ROYAL
PRODUCTS, INC.

CAL-ROYAL A6660V SVR Exit Device

Specifications:

- **Model:** EDG-4127-08/24
- **Year:** 2023
- **Latch Type:** Top and Bottom
- **Strike Options:** Handicap, Surface, Top, Mortise-in
- **Material:** Steel
- **Dimensions:** Refer to the provided templates

Product Usage Instructions

Installation:

1. Identify the location for mounting the latch based on the provided template.
2. Securely fasten the latch using the mounting screw holes.
3. For top latch, use the top strike for regular use. For bottom latch, choose between handicap, surface, or mortise-in strike based on your preference.

Operation:
To open the door, simply turn the handle corresponding to the latch you wish to release. Ensure the latch is properly aligned with the strike plate for smooth operation.

Maintenance:
Periodically check and tighten any loose screws to maintain the integrity of the latch system. Lubricate moving parts as needed to ensure smooth operation.

FAQ:

Q: Can I use the top strike with the bottom latch?
A: No, the top strike is specifically designed for use with the top latch. Using it with the bottom latch may result in improper functioning.
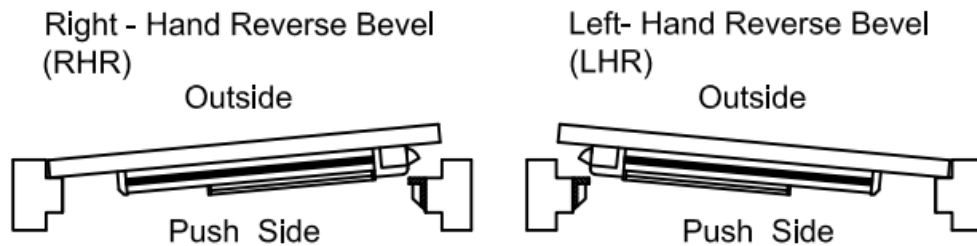
Q: What is the optional handicap strike used for?
A: The handicap strike provides a larger target area for users with limited dexterity or strength, making it easier to operate the latch.

INSTALLATION INSTRUCTIONS
FOR A6660V & AF6660V SVR EXIT DEVICE

The screws (item C & D), attach both machine & TEK screws (for wood door installation). And Item B1 & B2 changed to TEK screws (self-drilling screws) since 2014, May.
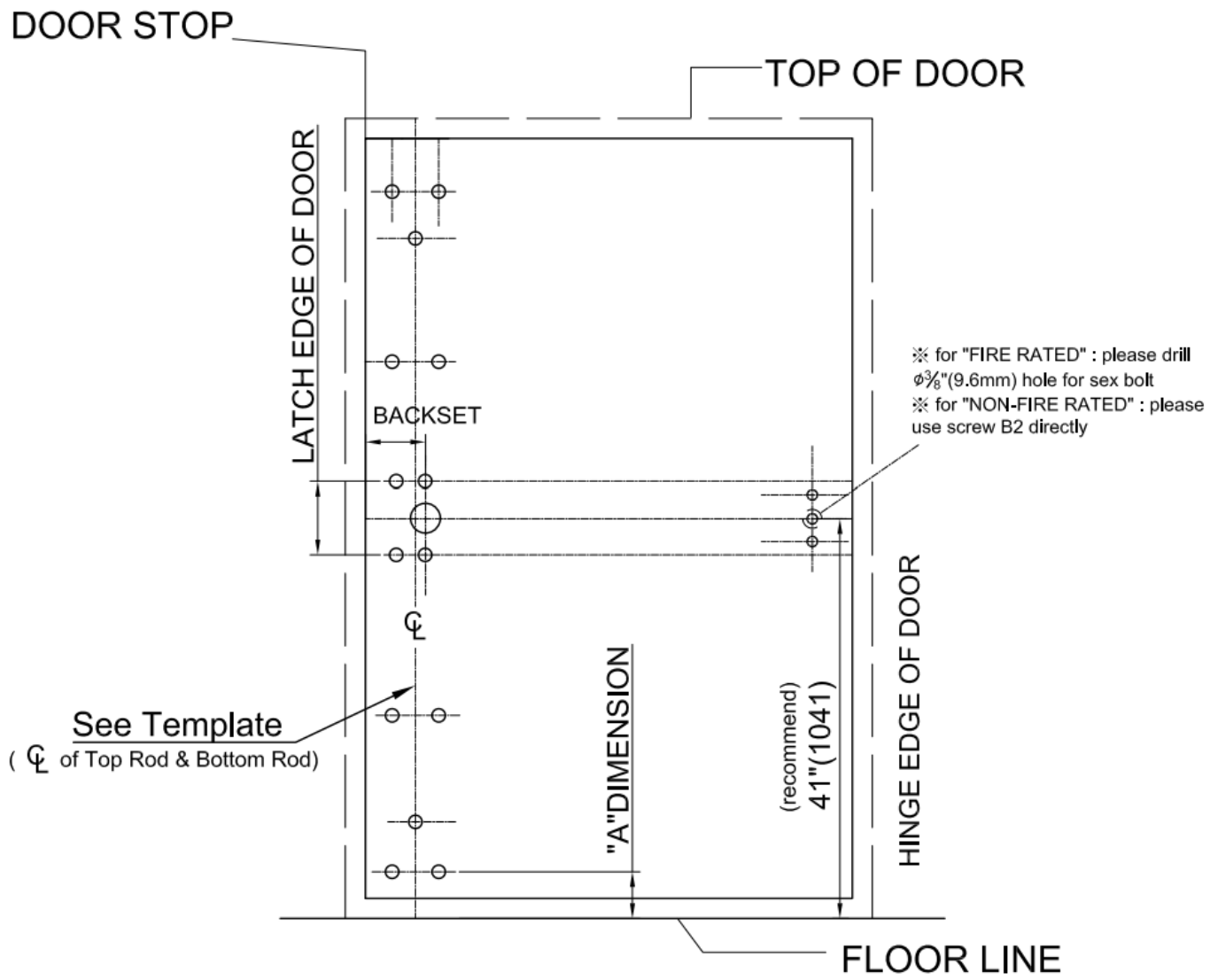

Determine handing of door

PARTS LIST

PARTS LIST

ITEM	DESCRIPTION	Q'TY Non-Fire	Q'TY Fire	MATERIAL
1	PUSH RAIL	1		STEEL/S304
2	MOUNTING RAIL	1		STEEL/S304
3	HEAD COVER	1		AL/ZINC/STEEL/S304
4	CHASSIS ASSY	1		STEEL
5	SLIDING SHIM	1		STEEL/S304
6	BRACKET	1		STEEL
7	END CAP	1		STEEL/S304
8	TOP LATCH	1		STEEL
9	LATCH COVER	2		STEEL/S304
10	TOP ROD	1		AL/S304
11	TOP STRIKE	1		S304
12	BOTTOM LATCH	1		STEEL
13	BOTTOM ROD	1		AL/S304
14	BOTTOM STRIKE	1		S304
15	ROD GUIDE	2		STEEL/S304
16	DOGGING HEX KEY	1	N/A	STEEL
A	SM4X8 FLAT HEAD SCREWS	14		S304
B1	10# 1¼" TEK SCREWS (FLAT HEAD)	6	2	STEEL
B2	10# 1¼" TEK SCREWS (ROUND HEAD)	7	2	STEEL
C	10# ¾" SCREWS (FLAT HEAD)	2+(2)		STEEL
D	10# ⅝" SCREWS (ROUND HEAD)	4+(4)		STEEL
E	SEX BOLT	N/A	9	STEEL
F	10# 2" TEK SCREWS(FLAT HEAD)	4		STEEL

ASSEMBLY INSTRUCTION

STEP 1: MARK CENTER LINES
Mark Center Lines on INSIDE of door. Establish the horizontal center line of the device by drawing a line across the door 41″ (1041mm) above floor line . Establish the top and bottom rod backset center line by drawing a vertical line from the top to bottom of the door measuring from the DOOR STOP. After marking & drilling, please install pushbar according to its marked location. With establishment of pushbar, then go for next step of other installations.

Regularly furnished unless ordered separately.

INSIDE OF LHR DOOR IS ILLUSTRATED

Regularly furnished unless ordered separated.

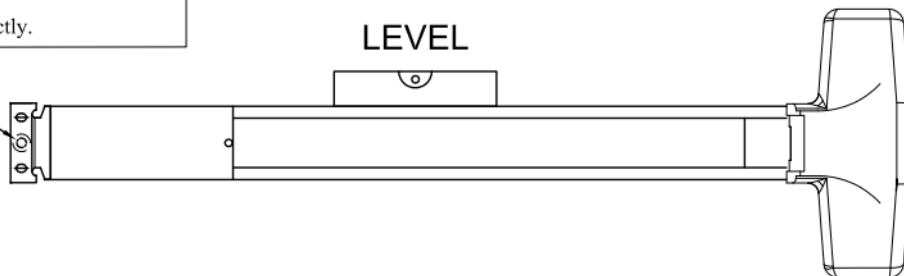| "A"DIMENSION	INSTALLATION
1 $\frac{47}{64}$"(44mm)	For Surface Strike
1 $\frac{9}{16}$"(39.5mm)	For Handicap Strike
1 $\frac{5}{32}$"(29.5mm)	For Mortise in Strike

STEP 2: INSTALL DEVICE & CUT DEVICE IF REQUIRED

2A. INSTALL DEVICE

1. Take off head cover and put device horizontally at the door. Fix screws (B1) on chassis but DO NOT tighten them at this step.
2. Install bracket with screw (B2). Be sure to remain device being horizontal and then tighten all screws.
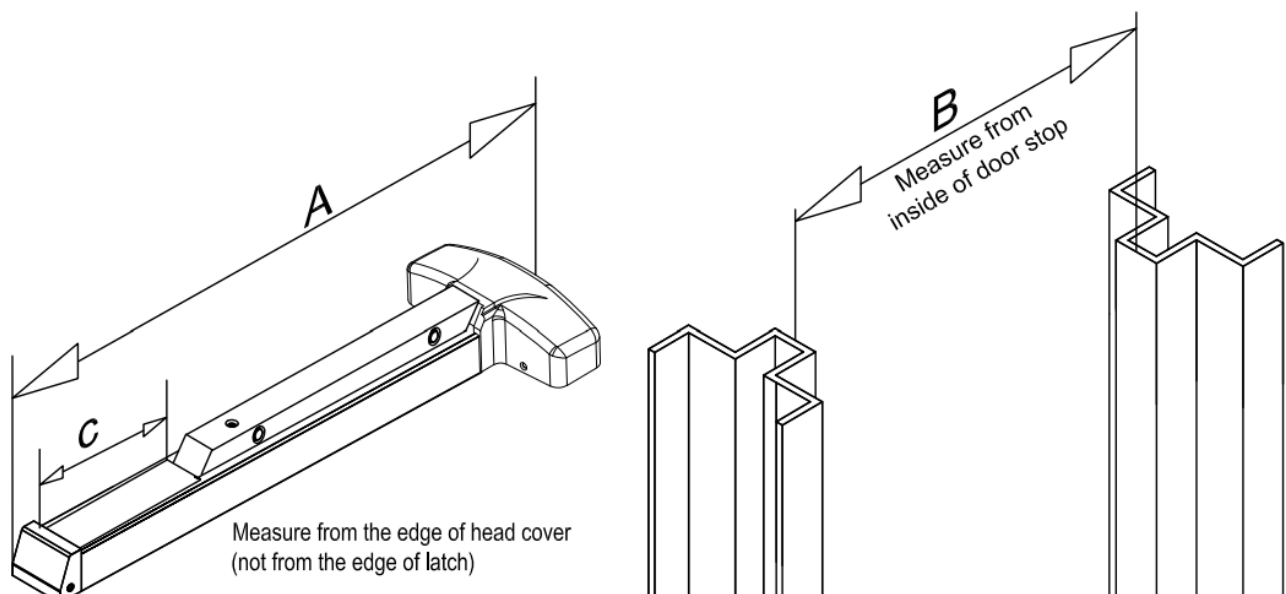
3. Install end cap & Install head cover after STEP 9.

※ for "FIRE RATED":
  please drill ø ⅜" (9.6mm) hole for sex bolt (E).

※ for "NON-"FIRE-RATED":
  please use screw (B2) directly.

LEVEL

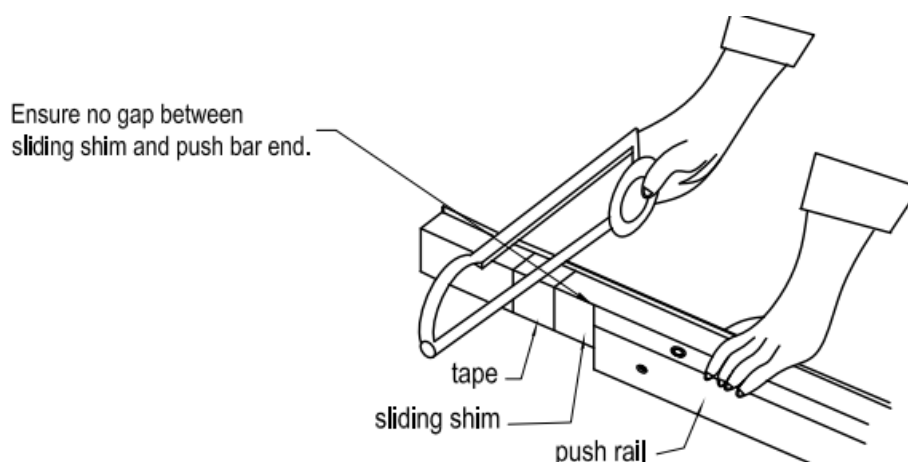## 2B. CUT DEVICE IF REQUIRED

1. Device length A must be at least 1½" (38mm) shorter than B.

A

C

Measure from the edge of head cover
(not from the edge of latch)

B
Measure from
inside of door stop

2. If required, cut length C, so A is at least 1/"(38mm) shorter than B.

Ensure no gap between
sliding shim and push bar end.

tape
sliding shim
push rail

NOTE : the minimum length of the sliding shim must be 1″(25.4mm) or longer than length "C".
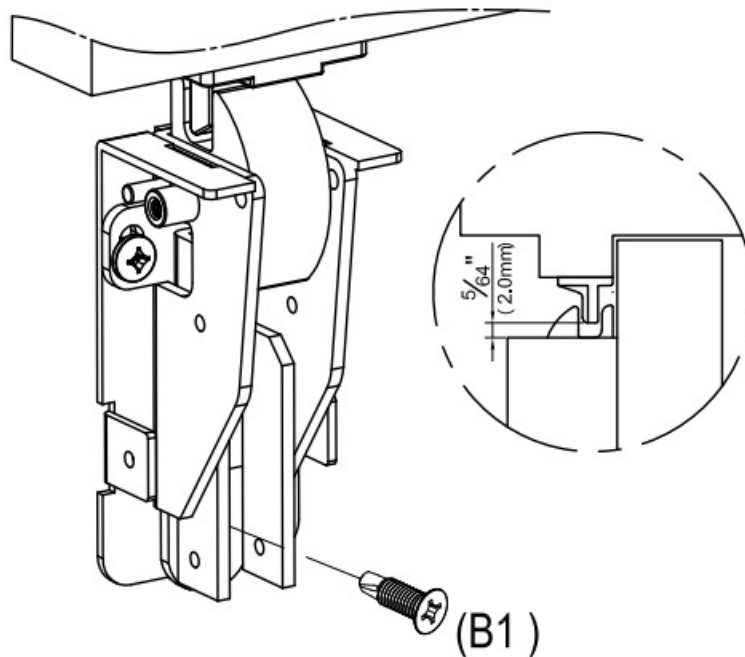
STEP 3: PREPARE TOP LATCH & INSTALL TOP LATCH

Prepare Top Latch and Mark by TEMPLATE for later installation .
Follow TEMPLATE to install top latch with two screws (B2).
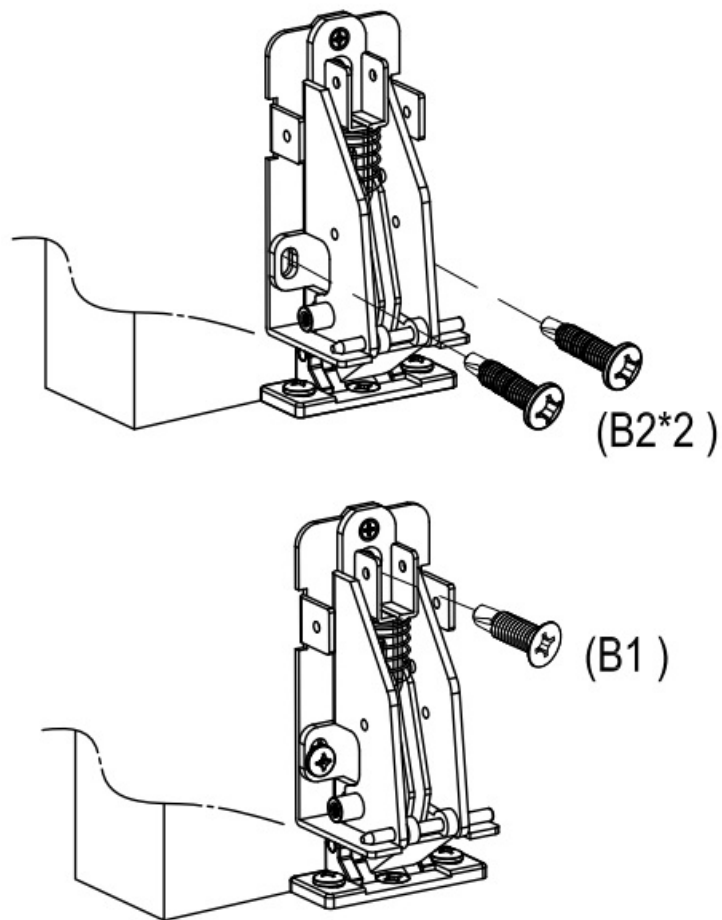(DO NOT TIGHTEN screws (B2) firmly)

(B2*2)
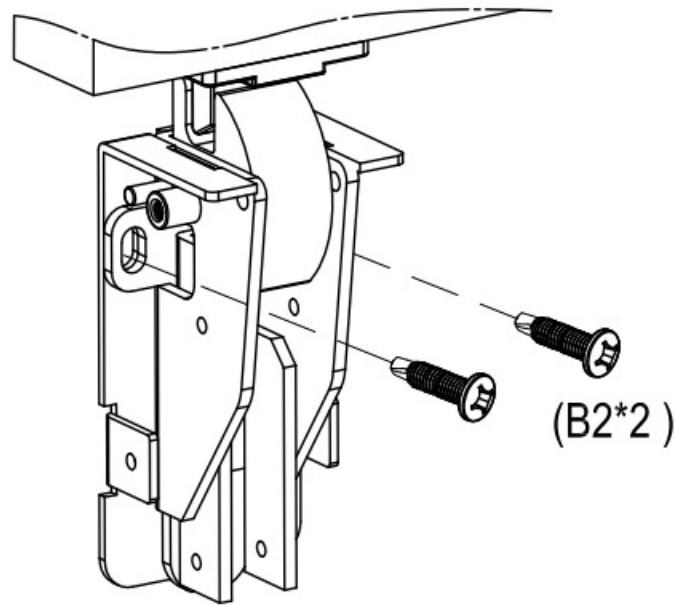
STEP 4: INSTALL TOP STRIKE

Follow TEMPLATE to install top strike. Adjust the Proper gap between top latch and strike which is about $\frac{5}{64}''$(2.0mm), tighten screws (B2) firmly and then screw (B1).


(B1)

STEP 5: PREPARE BOTTOM LATCH & INSTALL BOTTOM LATCH

Prepare Bottom Latch and Mark by TEMPLATE for later installation .
Follow TEMPLATE to install bottom latch with two screws(B2).
(DO NOT TIGHTEN screws (B2) firmly)

(B2*2)

(B1)

STEP 6: INSTALL BOTTOM STRIKE
Follow TEMPLATE to install bottom strike. Adjust the proper gap between bottom latch and strike which is about ⅛" (3.0mm), tighten screw (B2) firmly and then screw (B1).

⅛" (3.0mm)

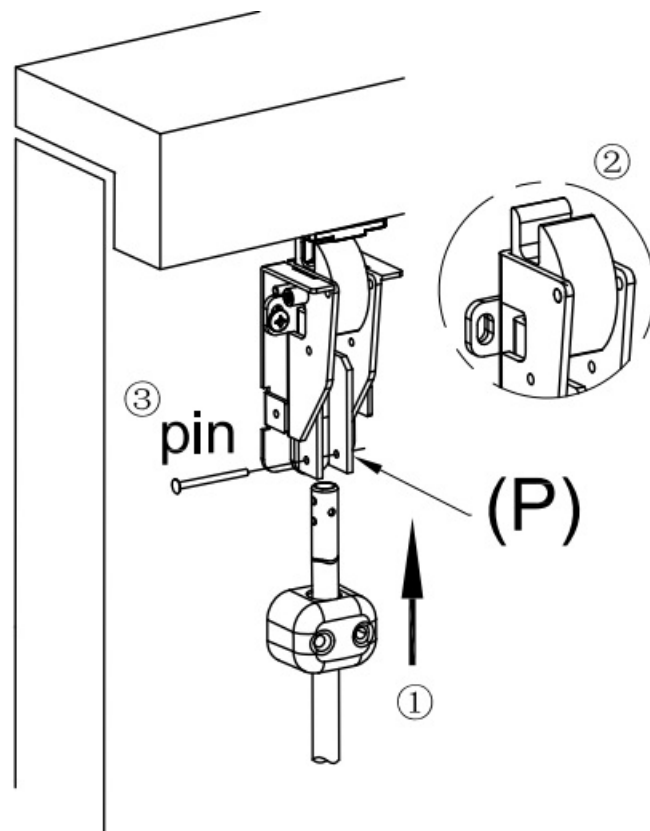(※ Mortise-in strike is optional. Please use its TEMPLATE for installation)
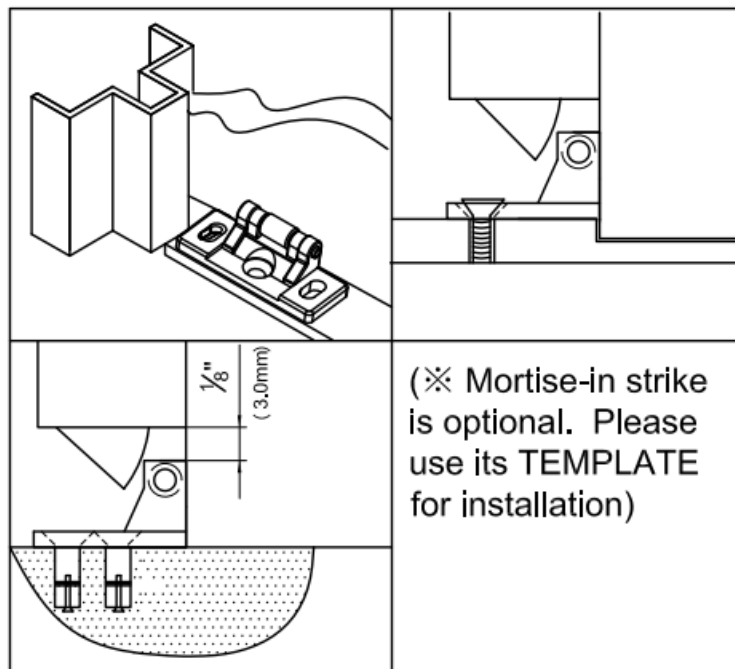
STEP 7: INSTALL & ADJUST TOP ROD
The rod length can be adjusted by the thread of the rod, adjust the correct length when door is in the closed position, by aiming the rod to the hole of the part (P).

rod connector
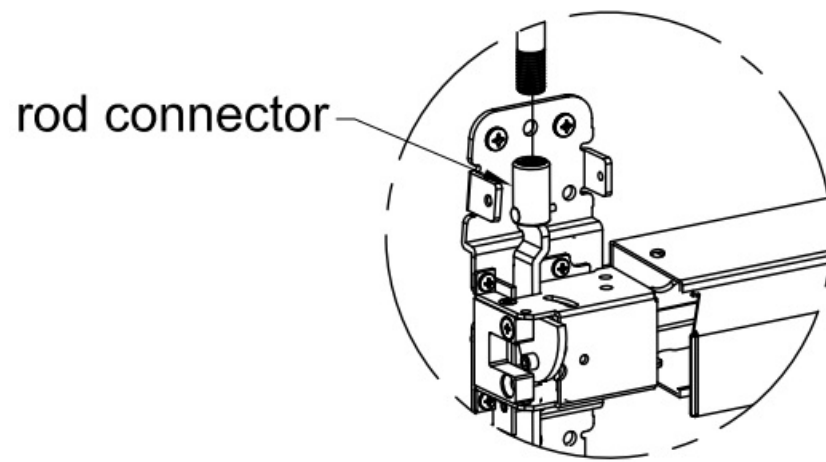
If top rod had been cut to fit door height, please drill hole for pin loading.

②

③ pin

(P)

①

STEP 8: INSTALL & ADJUST BOTTOM ROD

The rod length can be adjusted by the thread of the rod, adjust the correct length when door is in the opened position,by aiming the rod to the hole of the part (Q) •
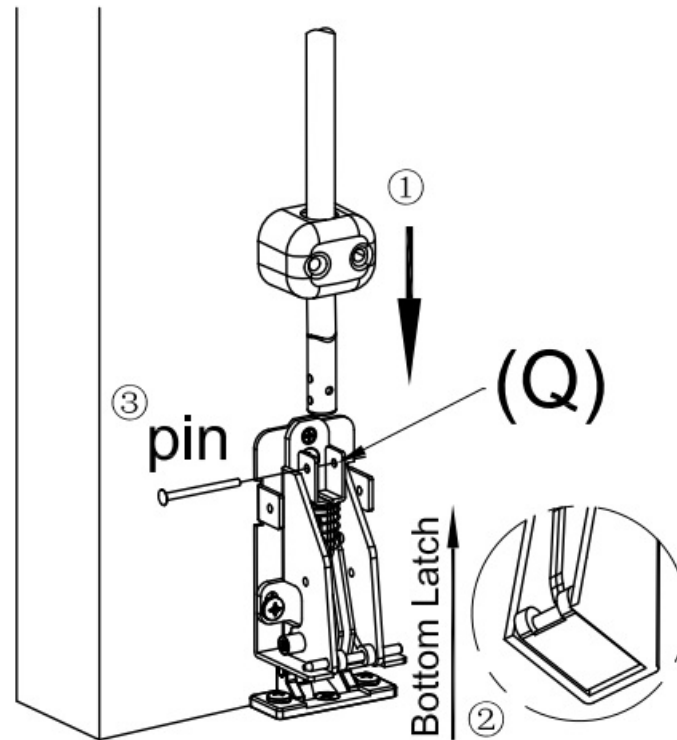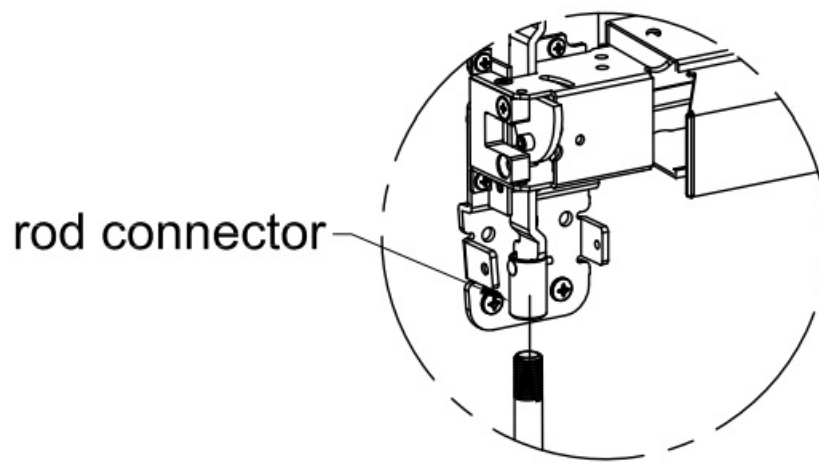
rod connector

①

(Q)

③ pin

Bottom Latch

②

STEP 9: INSTALL LATCH COVERS & ROD GUIDE

1. Install latch covers and fix/tighten them with screws (A).
2. Put rod guide midway between head cover and latch. Then, fix & tighen rod guide with screws (F).

(A*4)

(F*2)
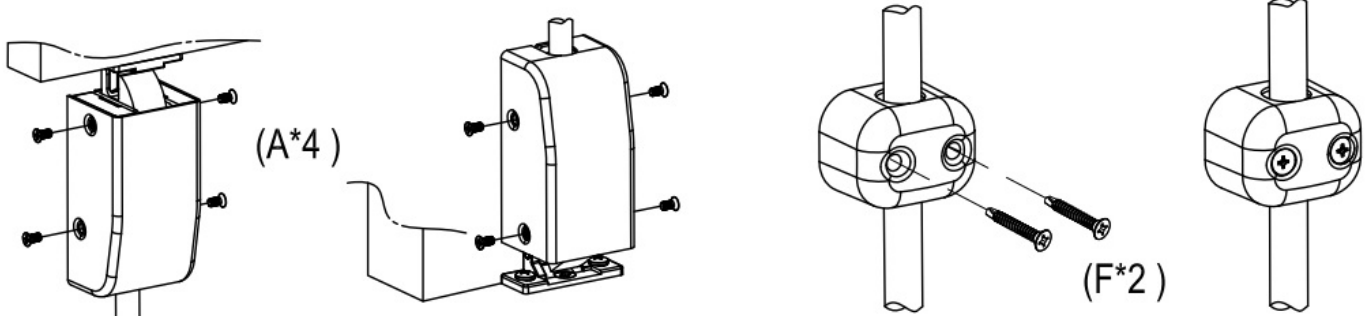
STEP 10: TEST PUSH RAIL & THE DOGGING FUNCTION

1. The latches should engage the strikes when the door is closed. If the door can be pushed to open without

depressing the push rail, please check the rod length and installation(see step 3)

2. The latches should disengage from the strikes freely when the push rail is depressed or dogged down.

  If not, please check the rod length/installation again (see step 3)

3. When applying outside trims:

    1. No trims: Exit only, latch bolts are retracted just by the push rail inside.

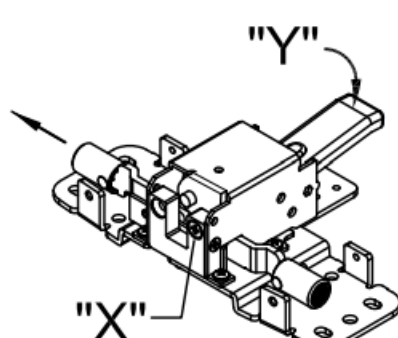   2. Entrance: latch bolts are retracted by trim outside after the trim unlocked.
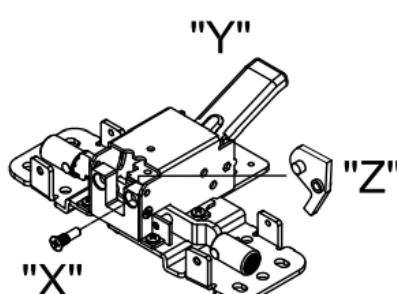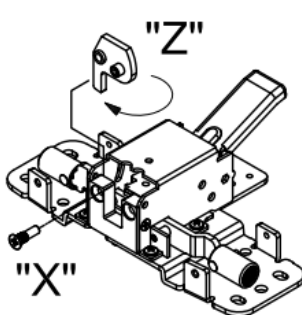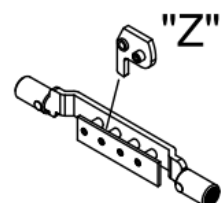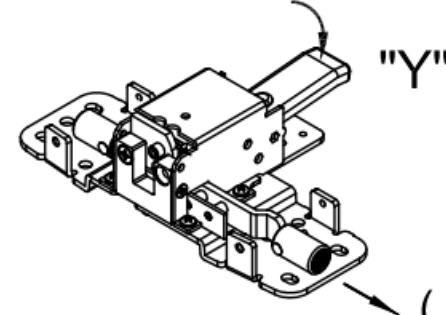
    3. Storeroom: latch bolts are retracted by trim outside with key only.

    4. Passage: latch bolts are retracted by trim outside always open.

4. Dogging: Use dogging hex key and turn clockwisely 90° when depressing push rail. Latch bolts will remain retracted.

STEP 11: CHANGE HANDING OF DEVICE

TO CHANGE HANDING OF DEVICE (FOR EXAMPLE: FROM LHR to RHR)

Press Lift Arm "Y" and ensure the direction before changing. The screw "X" is at the below hole position as figure shown

Unscrew "X" and take off "Z".

Turn "Z" 180° and put it back as figure shown. Then, fasten "X" at above screw hole position.

Press Lift Arm "Y" to ensure the processing direction is reversed.

TEMPLATE

TEMPLATE OF   **A6660V / AF6660V SVR EXIT DEVICE (1:1)**

$1\frac{1}{16}$"(17.6mm) $1\frac{1}{16}$"(17.6mm)

BACKSET

[STANDARD $2\frac{1}{4}$" (57.2mm).
IF THE OVER-LAPPING STRIKE IS NEEDED,
SEE IT'S TEMPLATE]

$\frac{7}{8}$"(22mm)

FOR SEX BOLT, DRILL
$\frac{3}{8}$" (9.6mm) HOLE OUTSIDE

FOR LEVER TRIM VERTICAL
THRU-BOLT MOUNTING

FOR EXTERIOR ACCESS BY
LEVER/KNOB TRIM DRILL
$2\frac{1}{8}$" (54mm) DIA. HOLE

FOR EXTERIOR ACCESS BY
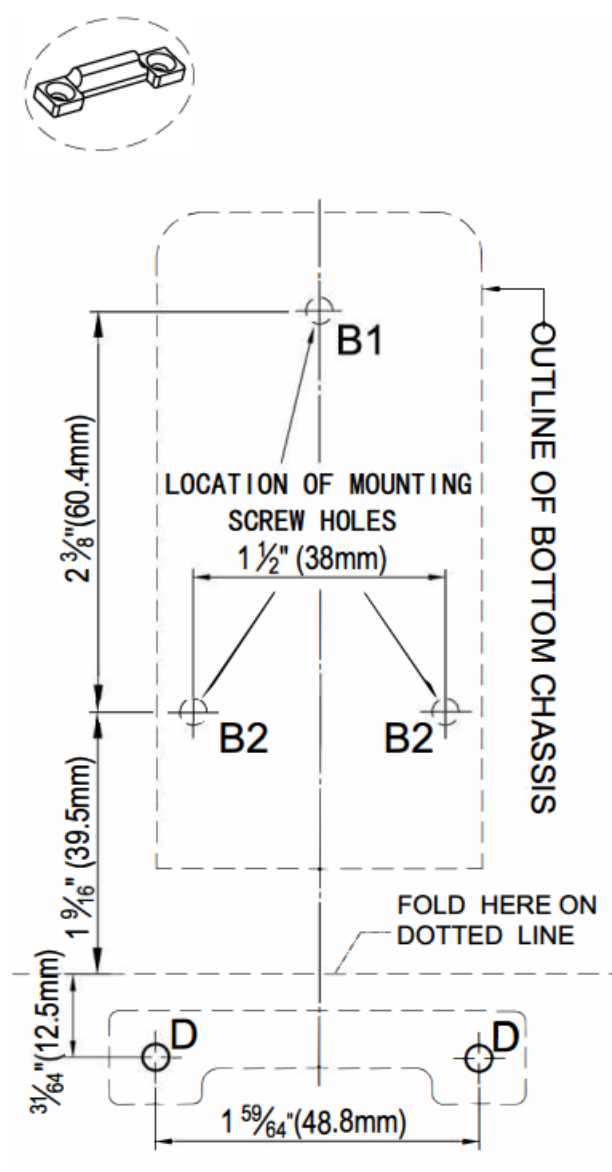RIM CYLINDER DRILL
$1\frac{1}{4}$" (31.8mm) DIA. HOLE

(LHR)

$4\frac{1}{4}$" (108mm)

$2\frac{3}{4}$" (70mm)

$3\frac{1}{2}$" (89mm)

This mounting hole is NO NEEDED,
if there is NO OUTSIDE TRIM applied!

FOR EXTERIOR ACCESS BY
RIM CYLINDER DRILL
$1\frac{1}{4}$" (31.8mm) DIA. HOLE

(RHR)

For Security Plate

$\frac{7}{8}$"(22mm)

$\frac{7}{16}$"(11.1mm)*2

DO NOT drill these two(2) holes on door, if the outside
trim is not needed to be fixed by them.

CL of Top Rod & Bottom Rod

$\frac{5}{16}$" (8mm)

CL

41" (1041mm) FROM
FINISHED FLOOR
TO CENTER LINE
OF PUSH RAIL

$\frac{45}{64}$" (17.9mm)

41" (1041mm) FROM
FINISHED FLOOR
TO CENTER LINE
OF PUSH RAIL

LHR

RHR

TEMPLATE of Bottom LATCH (1:1)
[Handicap Strike (Optional use) /

B1

LOCATION OF MOUNTING
SCREW HOLES
1 ½" (38mm)

B2 **B2**

OUTLINE OF BOTTOM CHASSIS

2 ⅜"(60.4mm)

1 ⁹⁄₁₆" (39.5mm)

³¹⁄₆₄"(12.5mm)

FOLD HERE ON
DOTTED LINE

D D

1 ⁵⁹⁄₆₄"(48.8mm)

TEMPLATE of Bottom LATCH (1:1)
/ Surface Strike (regular use) /

B1

LOCATION OF MOUNTING
SCREW HOLES
1 ½" (38mm)

2 ⅜"(60.4mm)

OUTLINE OF BOTTOM CHASSIS

B2   B2

1 47/64"(44mm)

Fix/tighten (C) firstly,
then fix/tighten (D)

FOLD HERE ON
DOTTED LINE

37/64"(14.5mm)

7/64"(2.6mm)

D   C   D

1 47/64"(44.3mm)
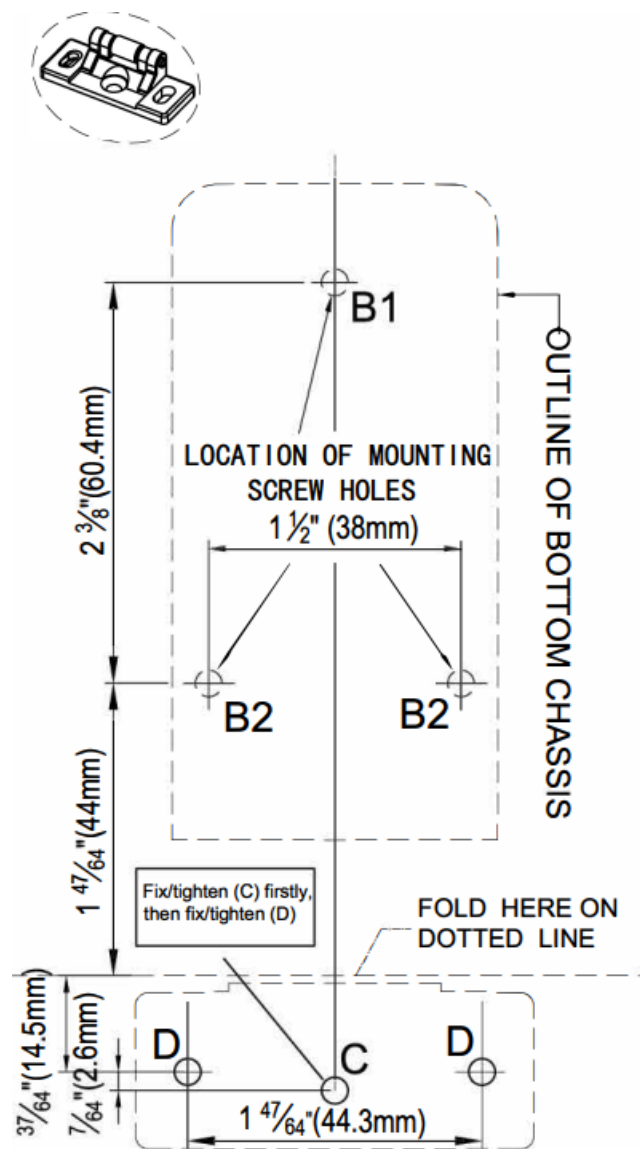
TEMPLATE of Top LATCH (1:1)
[Top Strike (regular use) /

1 5/32"(29.5mm)

23/64"(9.2mm)

43/64"(17mm)

Fix/tighten (C) firstly, then fix/tighten (D)

C

D   D

FOLD HERE
ON DOTTED LINE

1 27/32"(46.5mm)

2 3/8"(60.4mm)

1 ½" (38mm)

B2   B2

OUTLINE OF TOP CHASSIS

LOCATION OF MOUNTING
SCREW HOLES

B1
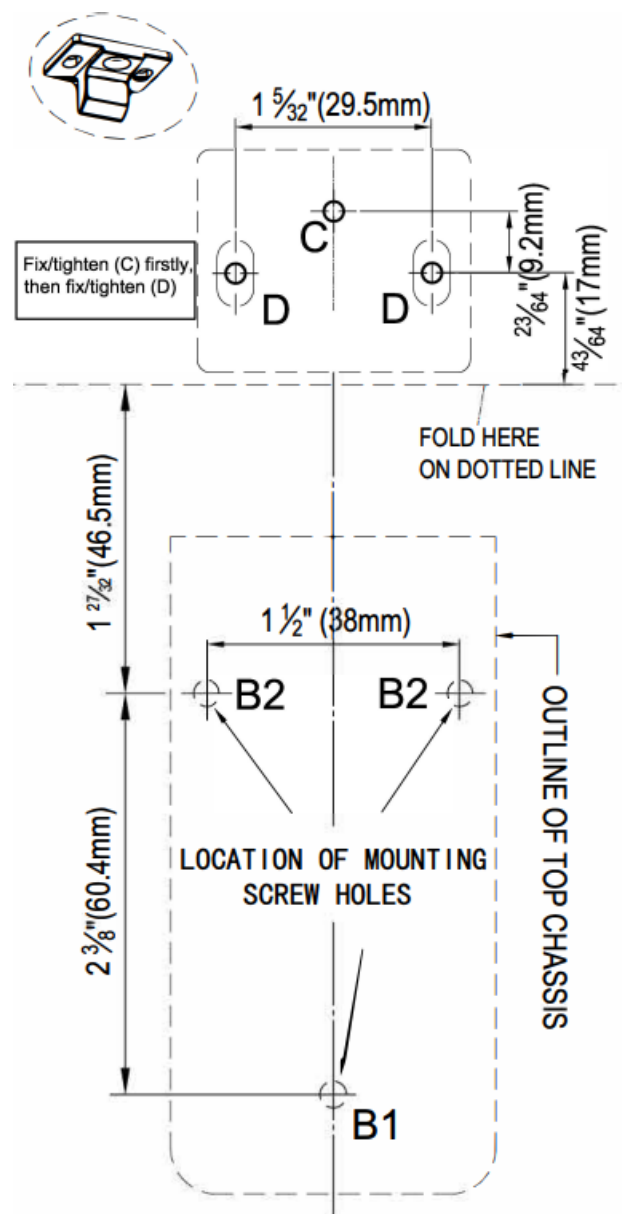
TEMPLATE of Bottom LATCH (1:1)
[Mortise in Strike (Optional use) /

OUTLINE OF BOTTOM CHASSIS

B1

LOCATION OF MOUNTING SCREW HOLES
1 ½" (38mm)

B2   B2

2 ³⁄₈"(60.4mm)

1 ⁵⁄₃₂"(29.5mm)

²⁷⁄₃₂"(21.3mm)

FOLD HERE ON DOTTED LINE

2"(50.8mm)
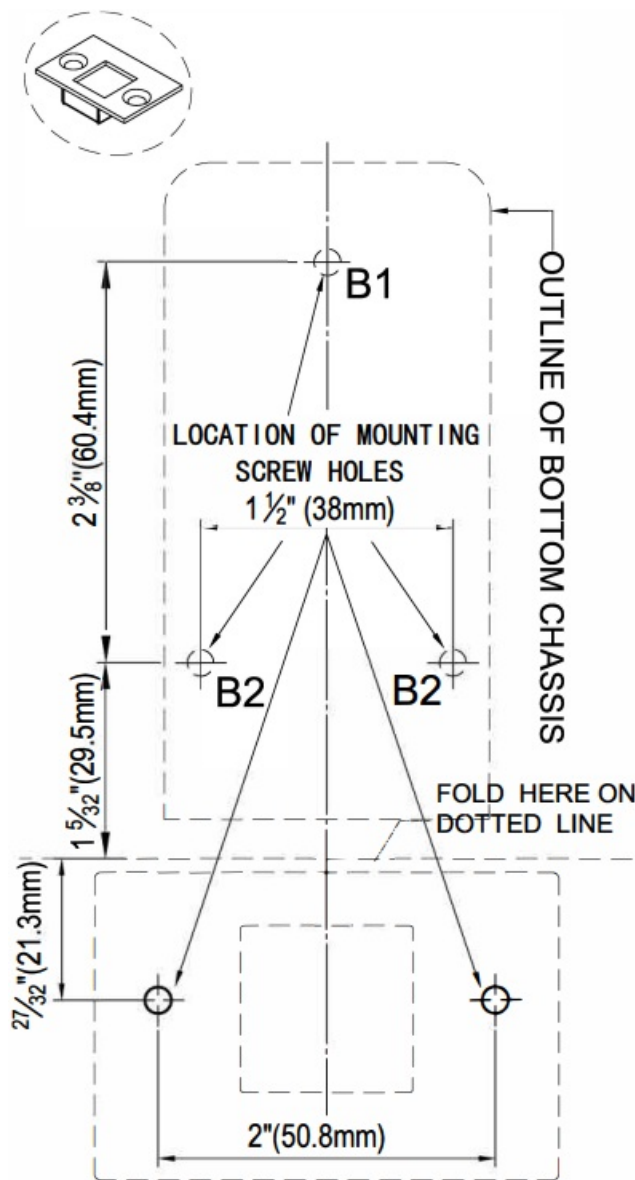
Documents / Resources

CAL-ROYAL A6660V SVR Exit Device [pdf] Installation Guide
A6660V, A6660V SVR Exit Device, SVR Exit Device, Exit Device, Device

References

- **User Manual**