

Installation Instructions

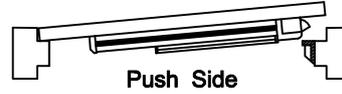
Non-fire Rated Less Bottom Rod(LBR) Device

※ The screws (from item B to F), attach both machine & tapping screws for install selection in the accessory package.

Determine handing of door

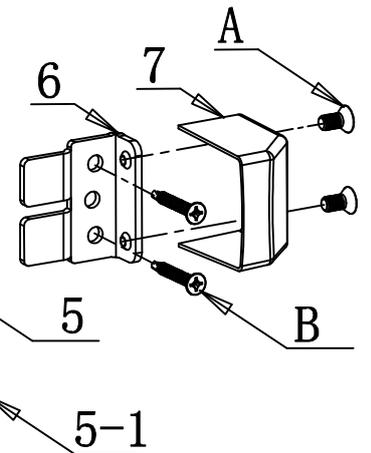
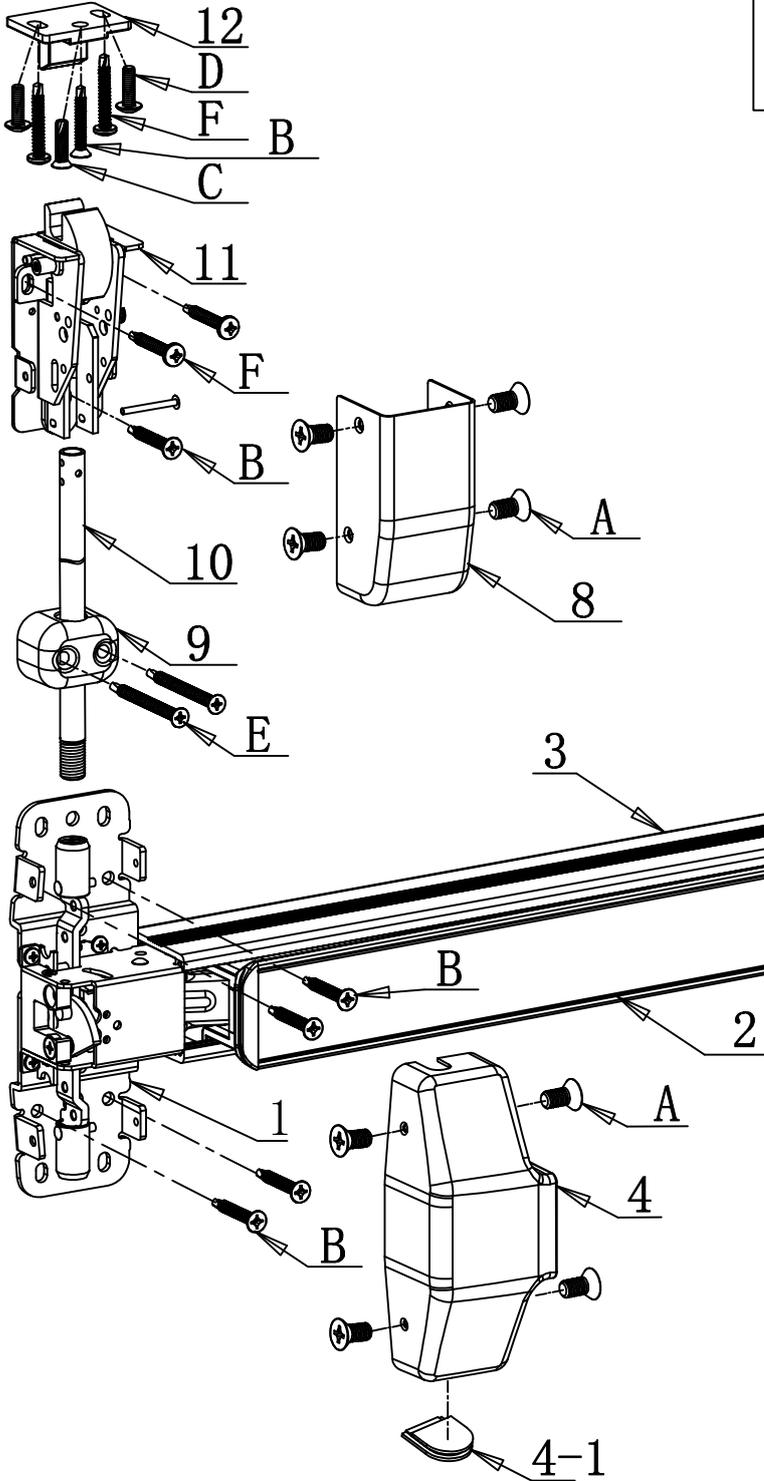
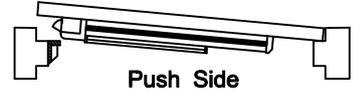
Right - Hand Reverse Bevel (RHR)

Outside



Left- Hand Reverse Bevel (LHR)

Outside



PARTS LIST

ITEM	DESCRIPTION	QTY
1	CHASSIS ASSY	1
2	PUSH BAR	1
3	MOUNTING RAIL	1
4	HEAD COVER	1
4-1	PLASTIC FILLER	1
5	SLIDING COVER	1
5-1	ALLEN WRENCH	1
6	BRACKET	1
7	END CAP	1
8	LATCH COVER	1
9	ROD GUIDE	1
10	TOP ROD 37-7/16" (91mm)	1
11	TOP LATCH	1
12	TOP STRIKE	1
A	SM4*8 FLAT HEAD SCREWS	10
B	10#*1-1/4" FLAT HEAD TEK SCREWS	8
C	10#*3/4" FLAT HEAD SCREWS	1
D	10#*5/8" ROUND HEAD SCREWS	2
E	10#*2" FLAT HEAD TEK SCREWS	2
F	10#*1-1/4" ROUND HEAD SCREWS	4

Installation Instructions

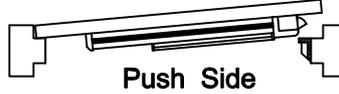
Fire Rated Less Bottom Rod(LBR) Device

※ The screws (from item B to H), attach both machine & tapping screws for install selection in the accessory package.

Determine handing of door

Right - Hand Reverse Bevel (RHR)

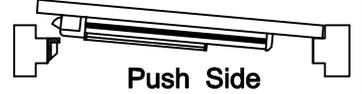
Outside



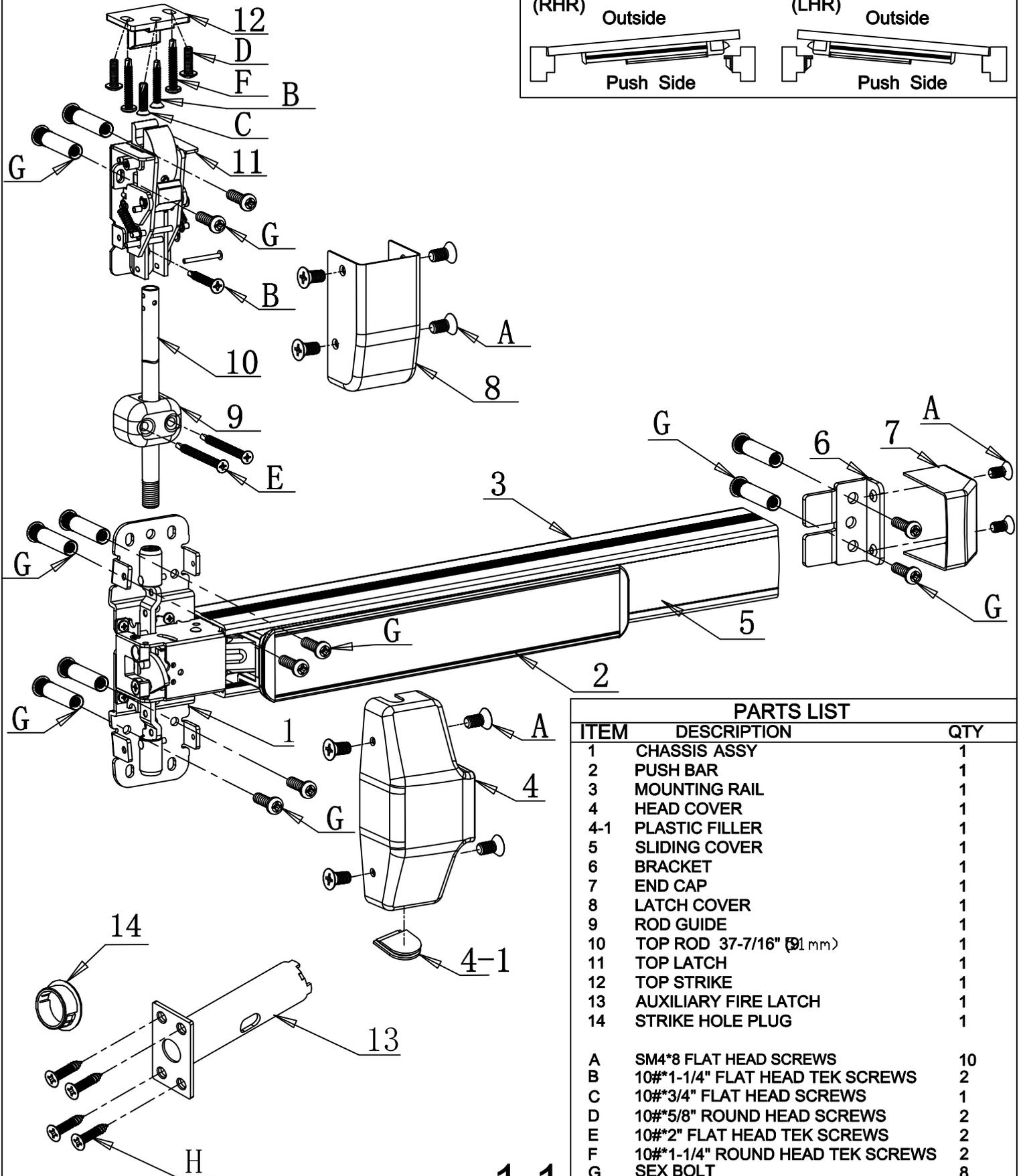
Push Side

Left- Hand Reverse Bevel (LHR)

Outside



Push Side



PARTS LIST

ITEM	DESCRIPTION	QTY
1	CHASSIS ASSY	1
2	PUSH BAR	1
3	MOUNTING RAIL	1
4	HEAD COVER	1
4-1	PLASTIC FILLER	1
5	SLIDING COVER	1
6	BRACKET	1
7	END CAP	1
8	LATCH COVER	1
9	ROD GUIDE	1
10	TOP ROD 37-7/16" (91mm)	1
11	TOP LATCH	1
12	TOP STRIKE	1
13	AUXILIARY FIRE LATCH	1
14	STRIKE HOLE PLUG	1
A	SM4*8 FLAT HEAD SCREWS	10
B	10#*1-1/4" FLAT HEAD TEK SCREWS	2
C	10#*3/4" FLAT HEAD SCREWS	1
D	10#*5/8" ROUND HEAD SCREWS	2
E	10#*2" FLAT HEAD TEK SCREWS	2
F	10#*1-1/4" ROUND HEAD TEK SCREWS	2
G	SEX BOLT	8
H	5/32**7/8" FLAT HEAD SCREWS(Dual Use)	4

Less Bottom Rod (LBR) Devices

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 backset center line by drawing a vertical line from the top to bottom of the door measuring from the LOW SIDE of the DOOR BEVEL. 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

LOW SIDE OF DOOR BEVEL

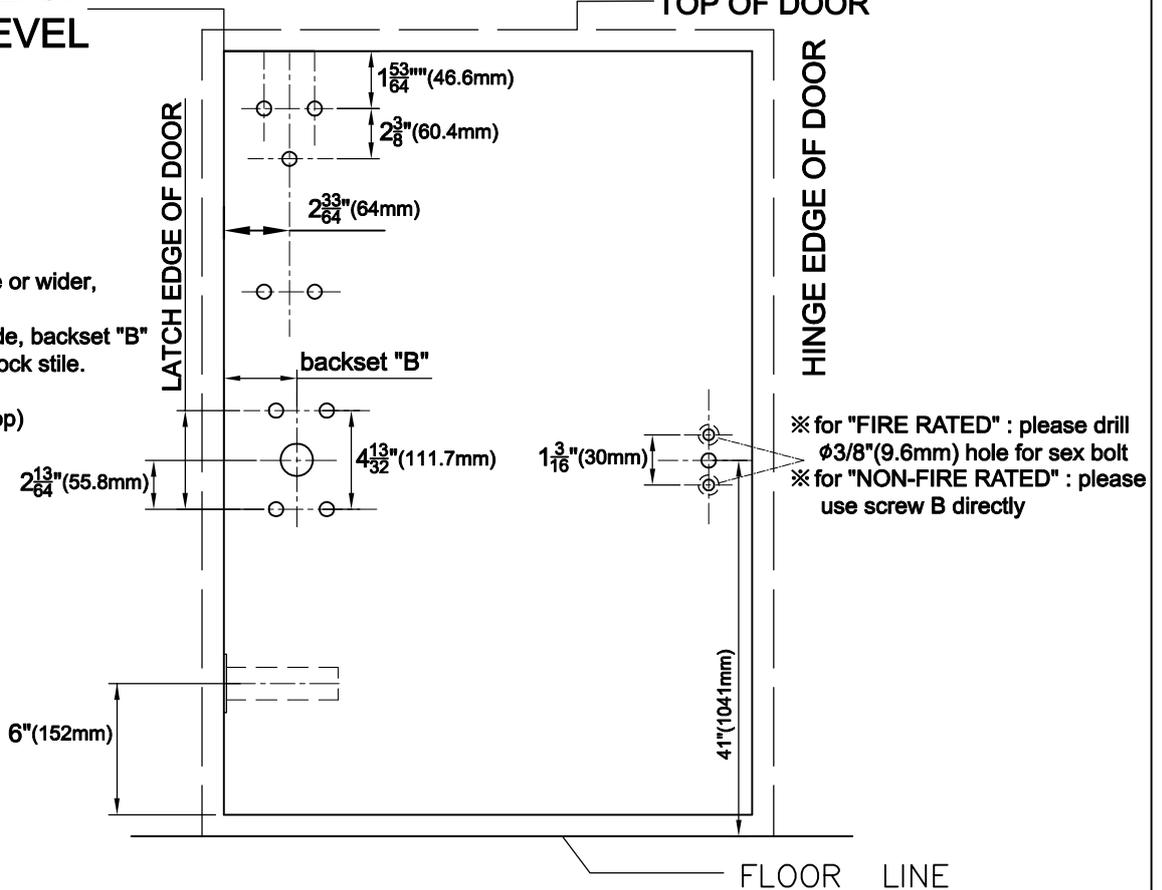
TOP OF DOOR

Determine backset "B"

※ If lock stile is approx. 4-1/2" wide or wider, backset "B" = 2-3/4".

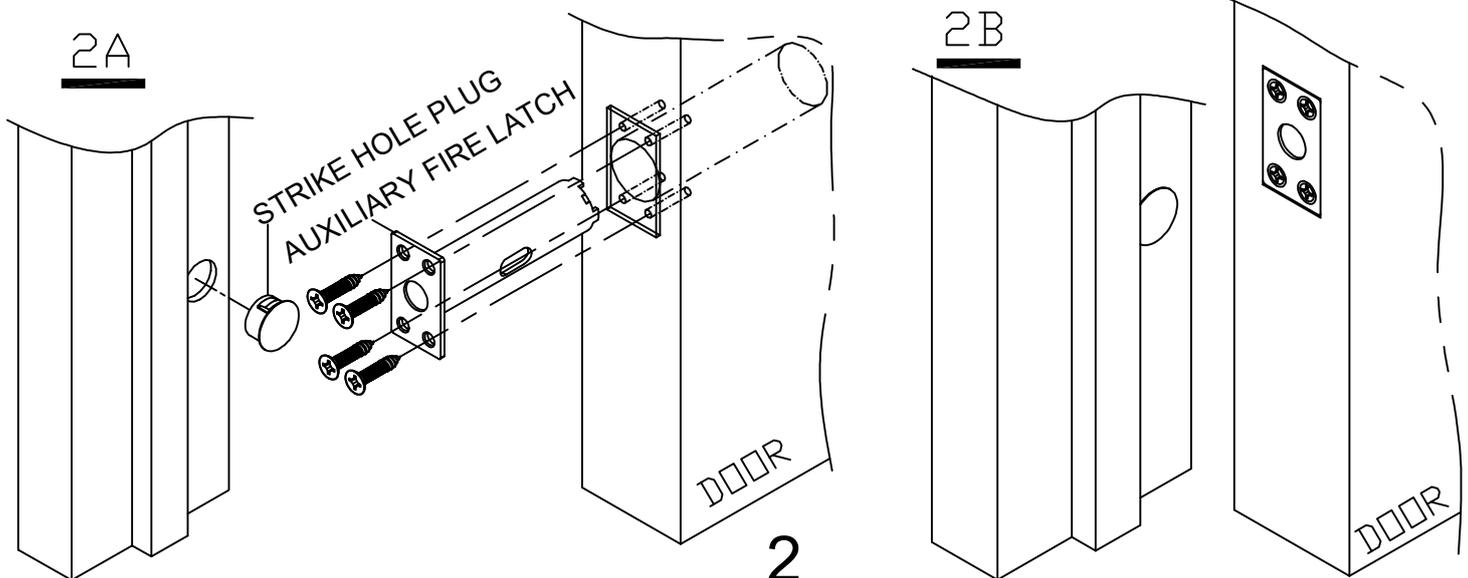
※ If lock stile is less than 4-1/2" wide, backset "B" = 1/2 of the visible width of the lock stile.

(when door is closed against stop)



INSTALL AUXILIARY FIRE LATCH FOR Less Bottom Rod (LBR) Devices ONLY

STEP 2 INSTALL AUXILIARY FIRE LATCH(Only for Fire Rated)

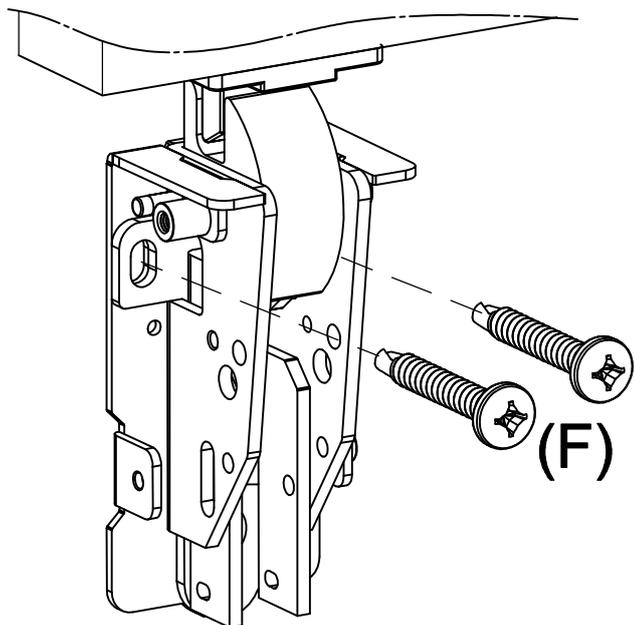


Less Bottom Rod (LBR) Devices

STEP 3 INSTALL TOP LATCH

Follow TEMPLATE to install top latch with two screws (F).

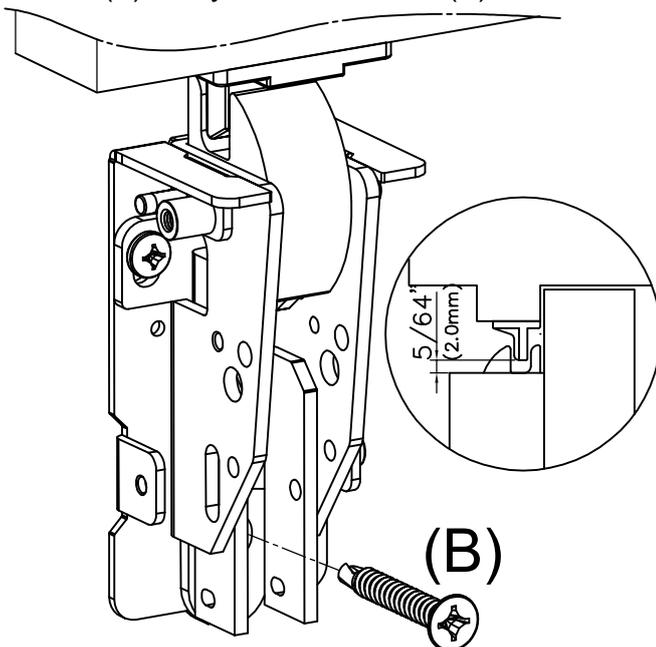
(Do not tighten the screws (F) firmly)



STEP 4 INSTALL TOP STRIKE

Follow TEMPLATE to install top strike.

Adjust the proper gap between top latch and strike which is about 5/64" (2.0mm), tighten screws (F) firmly and then screw (B).



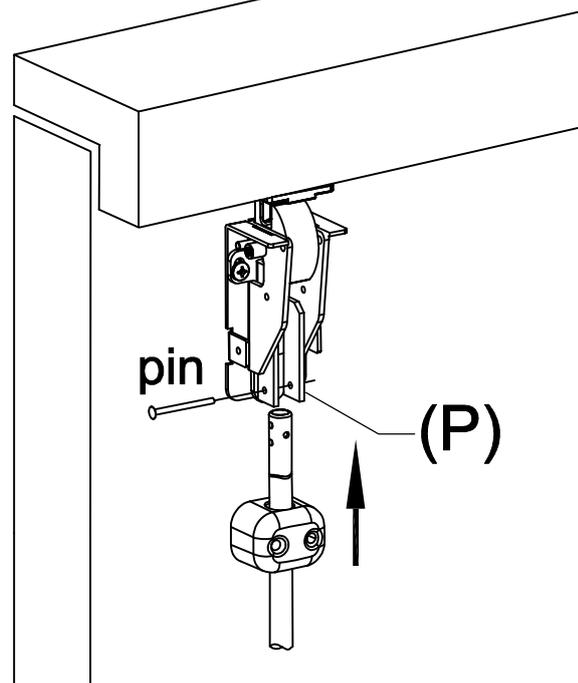
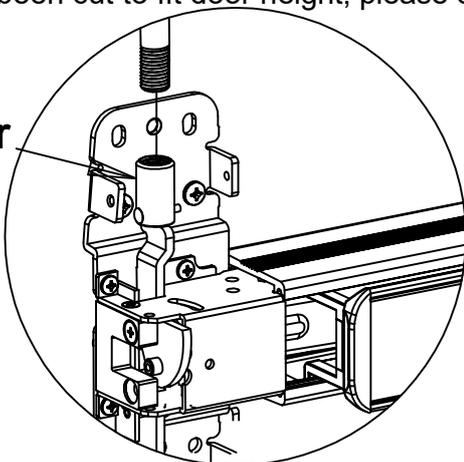
Less Bottom Rod (LBR) Devices

STEP 5 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).

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

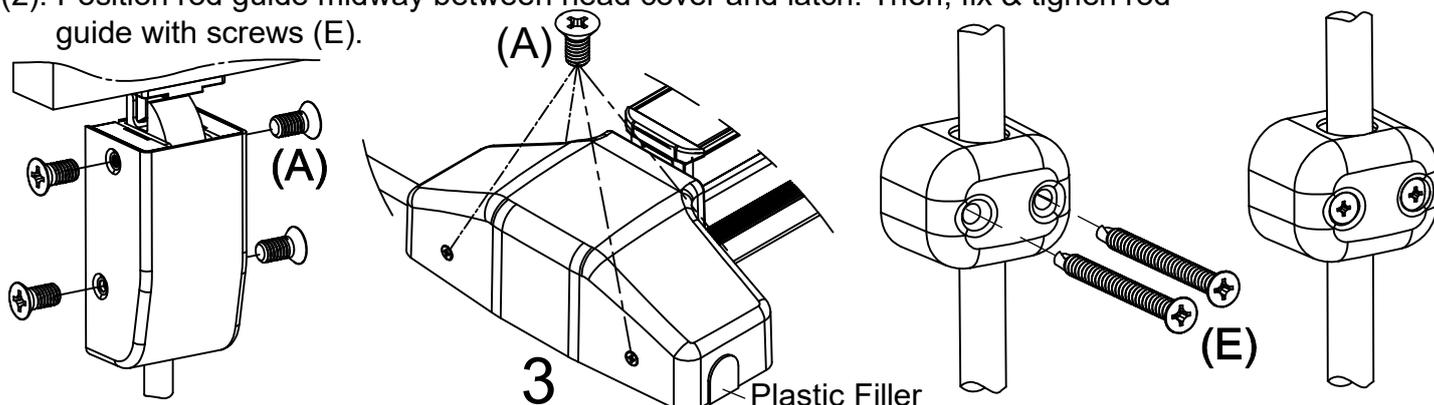
rod connector



STEP 6 INSTALL LATCH COVER, HEAD COVER & ROD GUIDE

(1). Install latch covers, head cover and fix/tighten them with screws (A).

(2). Position rod guide midway between head cover and latch. Then, fix & tighten rod guide with screws (E).



Less Bottom Rod (LBR) Devices

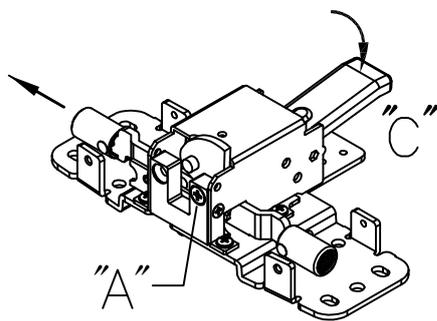
STEP 7 TEST PUSH RAIL & THE DOGGING FUNCTION

1. The latches should engage the strikes when the door is closed. If the door can be pushed open without depressing the push bar, please check the rod length and installation (see step 3)
2. The latches should disengage from the strikes freely when the push bar 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 bar inside.
 - (2). Entry: latch bolts are retracted by trim outside after the trim is unlocked.
 - (3). Storeroom: latch bolts are retracted by trim outside with key only.
 - (4). Passage: latch bolts are retracted by trim always open.
4. Dogging: Use allen wrench and turn clockwise 90° when depressing push bar. Latch bolts will remain retracted.

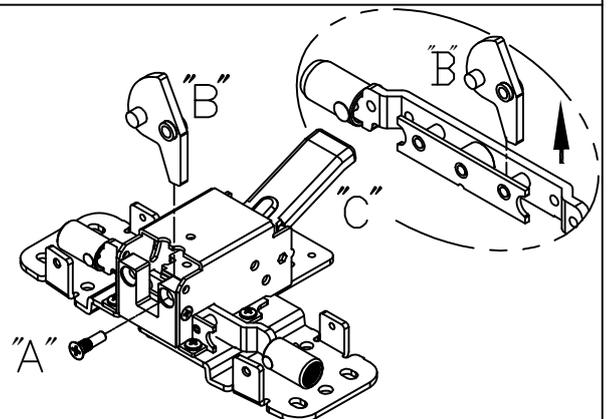
STEP 8 CHANGE HANDING OF DEVICE

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

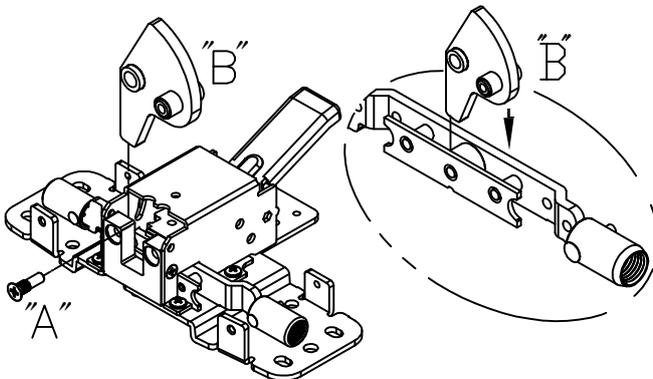
(LHR)



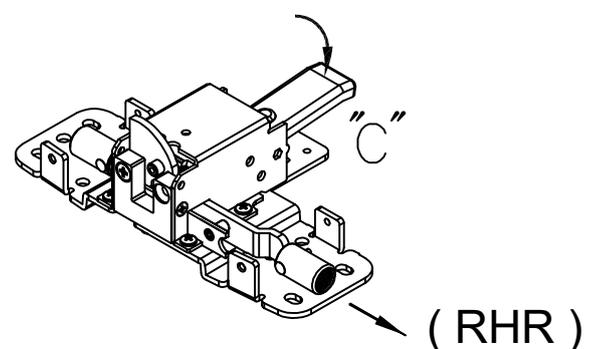
PRESS LIFT ARM "C" AND ENSURE THE DIRECTION.
The screw "A" is at the below hole position as figure shown



UNSCREW "A" AND TAKE OFF "B".



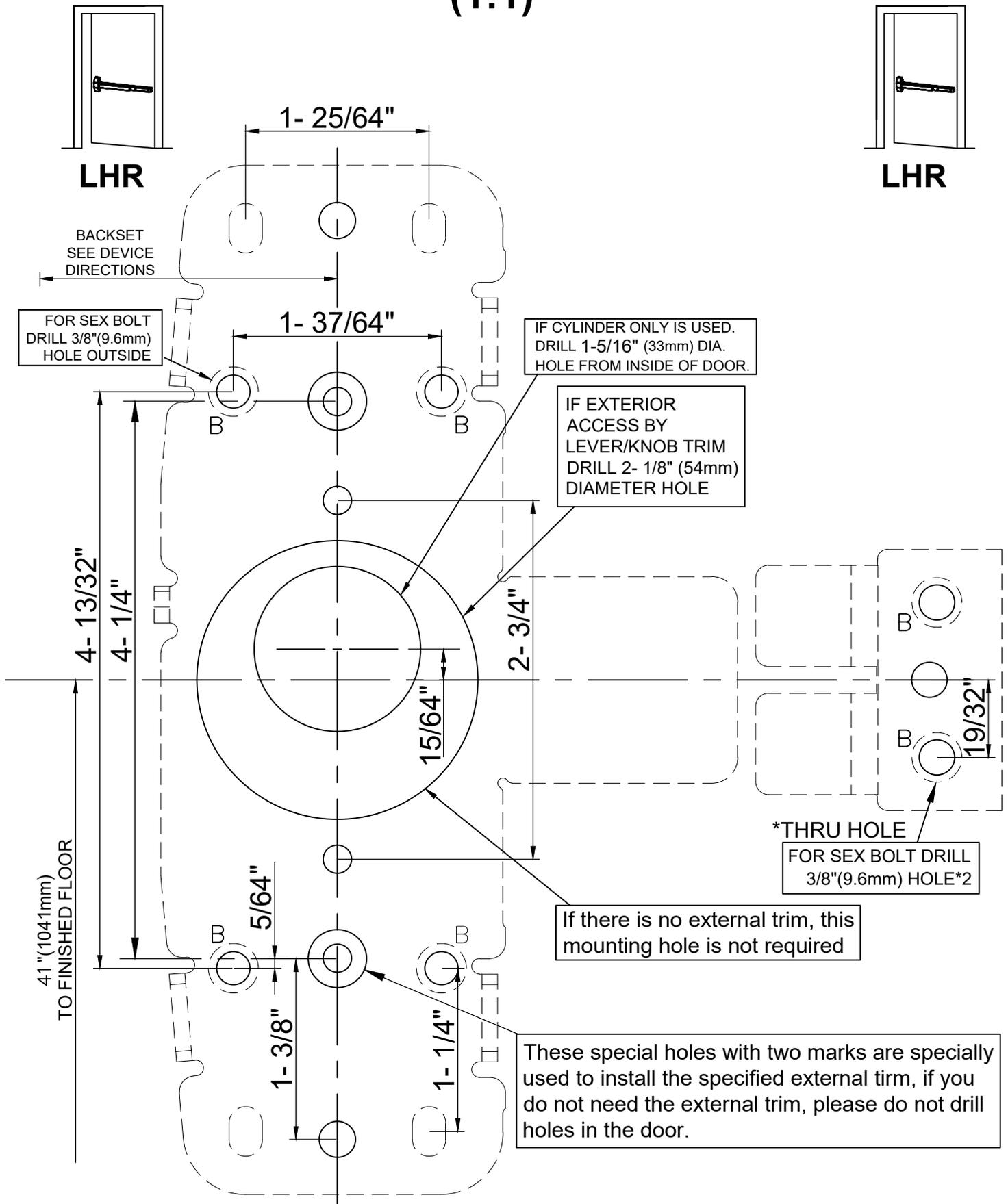
TURN "B" 180° AND PUT IT BACK AS FIGURE SHOWN
THEN, FASTEN "A" AT ABOVE SCREW HOLE.



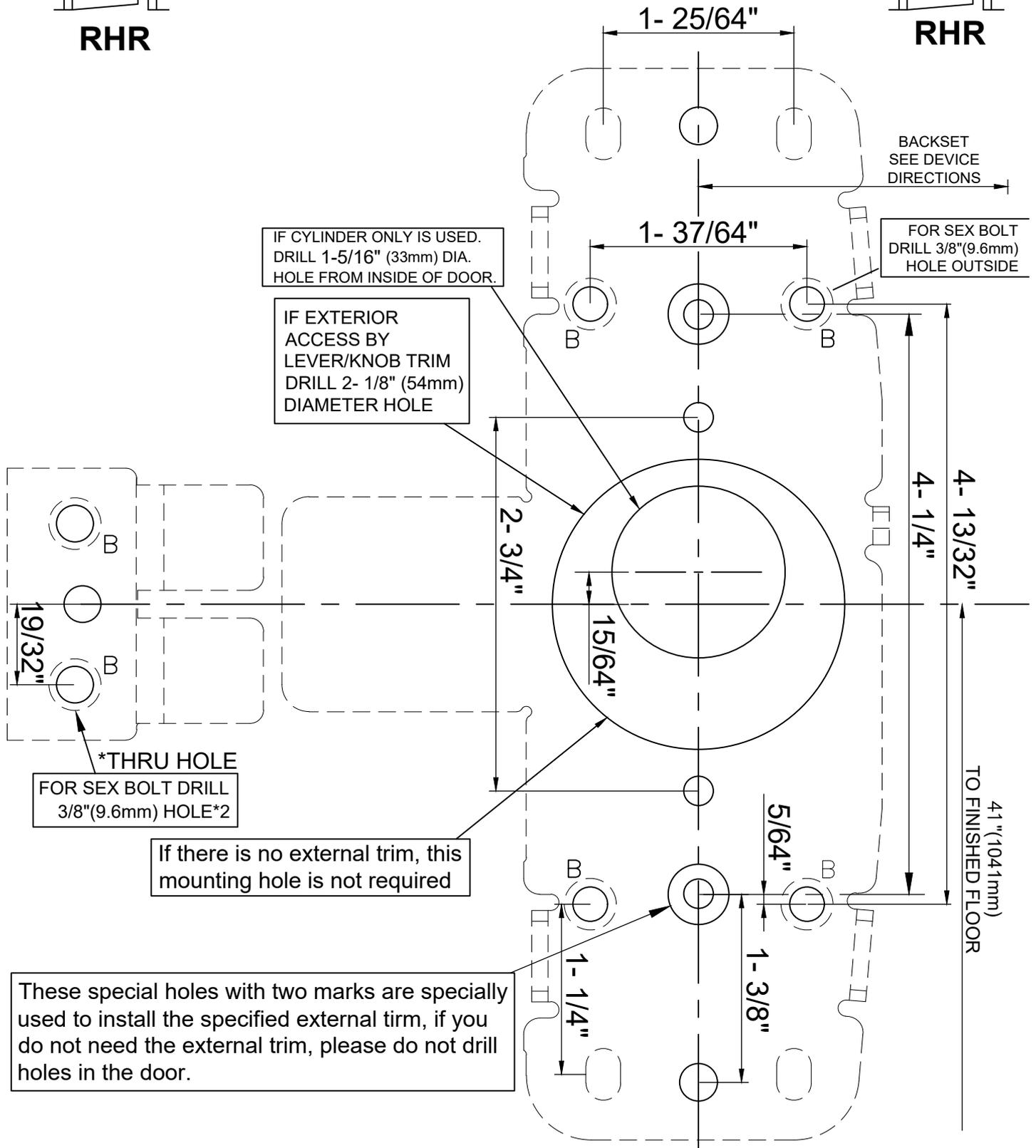
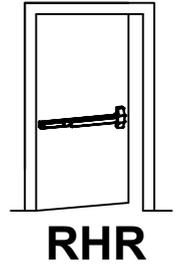
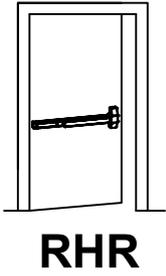
OPERATE LIFT ARM "C" TO ENSURE THE
PROCESSING DIRECTION IS REVERSED.

TEMPLATE FOR SVR DEVICE

(1:1)



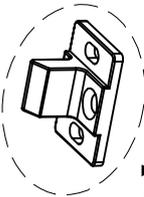
TEMPLATE FOR SVR DEVICE (1:1)



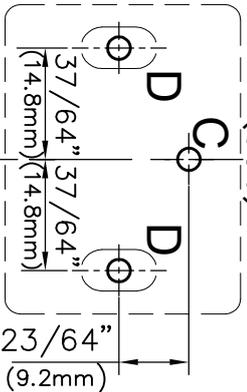
These special holes with two marks are specially used to install the specified external trim, if you do not need the external trim, please do not drill holes in the door.

TEMPLATE of Top LATCH

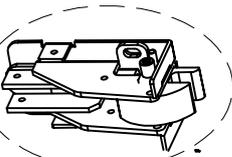
Top Strike (regular use)



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

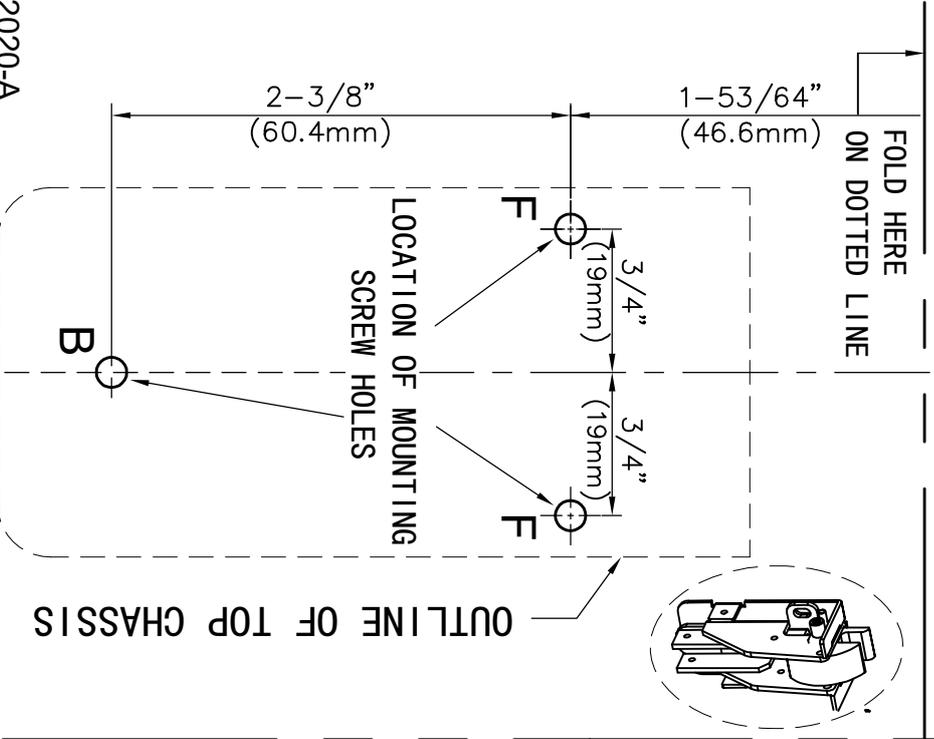


FOLD HERE
ON DOTTED LINE

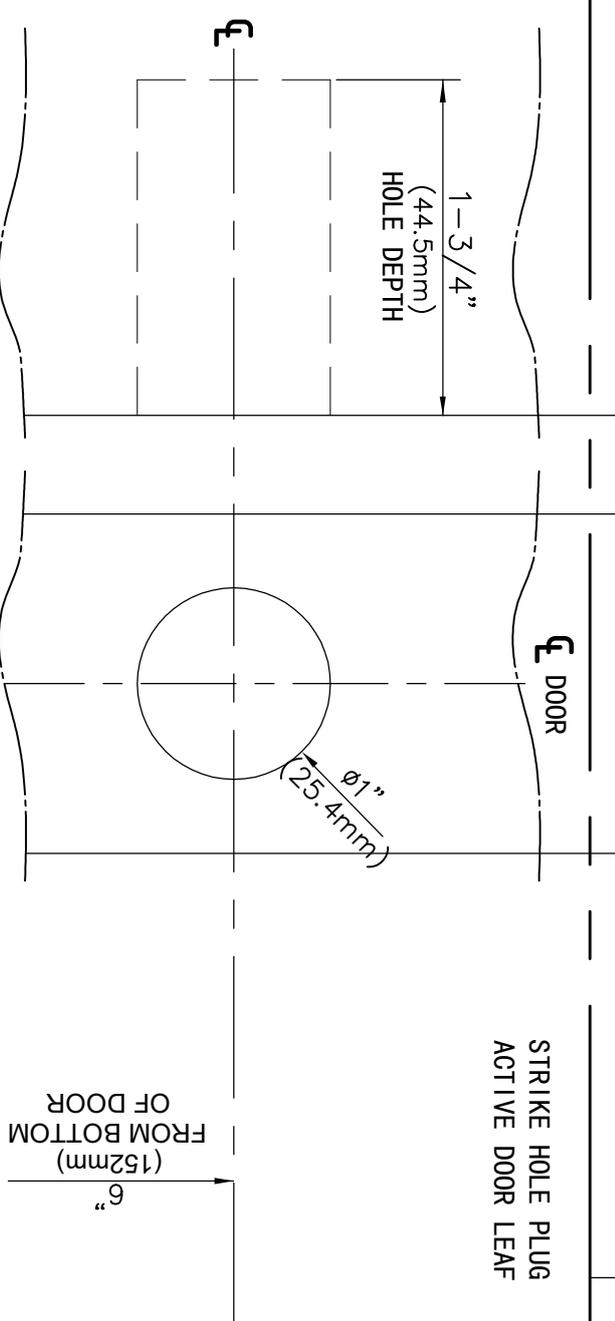
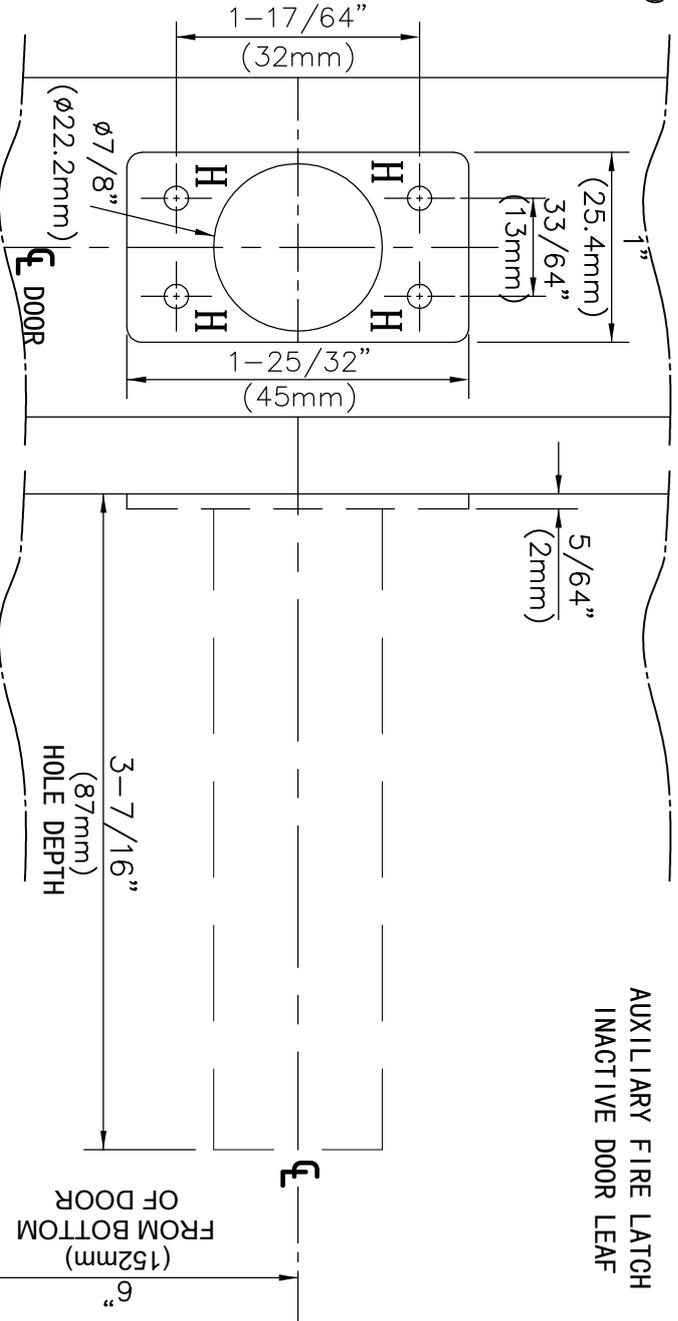


OUTLINE OF TOP CHASSIS

LOCATION OF MOUNTING
SCREW HOLES



2020-A



FROM BOTTOM
OF DOOR
(152mm)

6"

STRIKE HOLE PLUG
ACTIVE DOOR LEAF

AUXILIARY FIRE LATCH
INACTIVE DOOR LEAF