C-93EAL-CHL Security Lockset and Pulls

Self-Latching, Electrified Self-Locking, Barrier-Free (ADA Compliant)

Installation Instructions

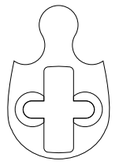
KNC Door Locks & Pulls

Specifications

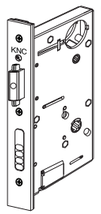
Case: Heavy-gauge wrought
Armor Front: Brass, bronze, stainless
Dead Bolt: 1/2 in [12.7 mm] thick x 5/8 in [15.9 mm] high x 1 in [25.4 mm] throw
Cylinder: 1 9/64 in diameter x 1 1/4 in [31.8 mm] depth. 6-pin Schlage “C” Keyway with 2 keys (cylinder ring not flush with door)
Cam: See details on right
Door Thickness: 1 3/4 in [44.5 mm]

Cam Required:

CAM01-SCL Clover Cam



Included Components



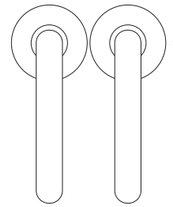
C-93EAL Electrified Auto-Locking, Self Latching Body



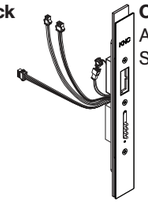
C-93EAL ADA Thumb Turn Self-Latching



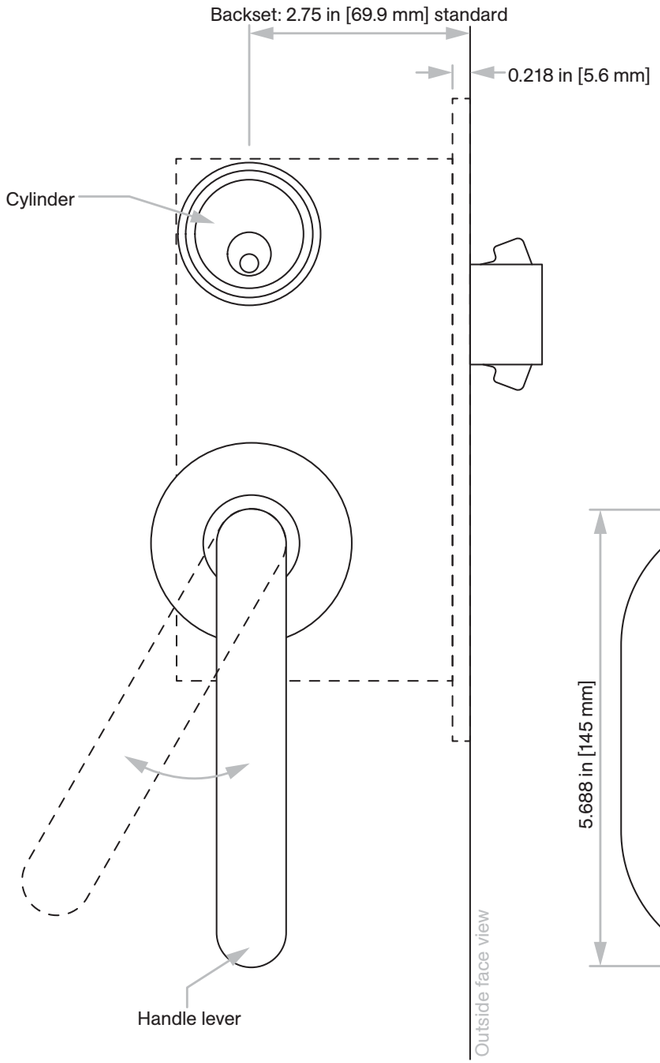
C-93EAL Cylinder Ring and Cylinder

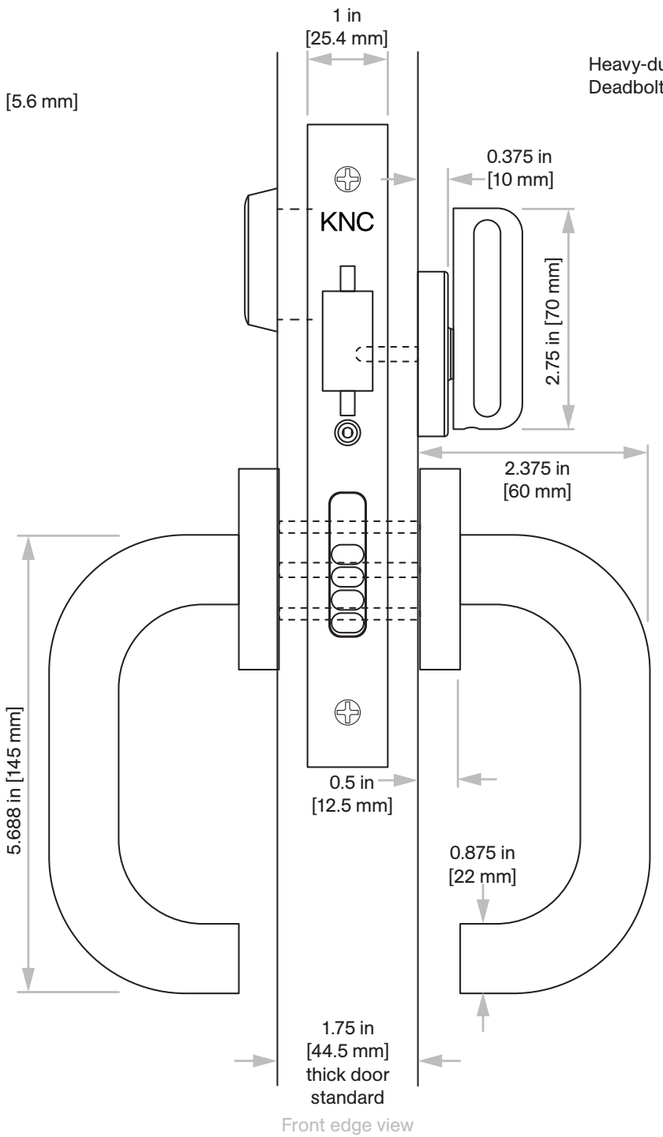


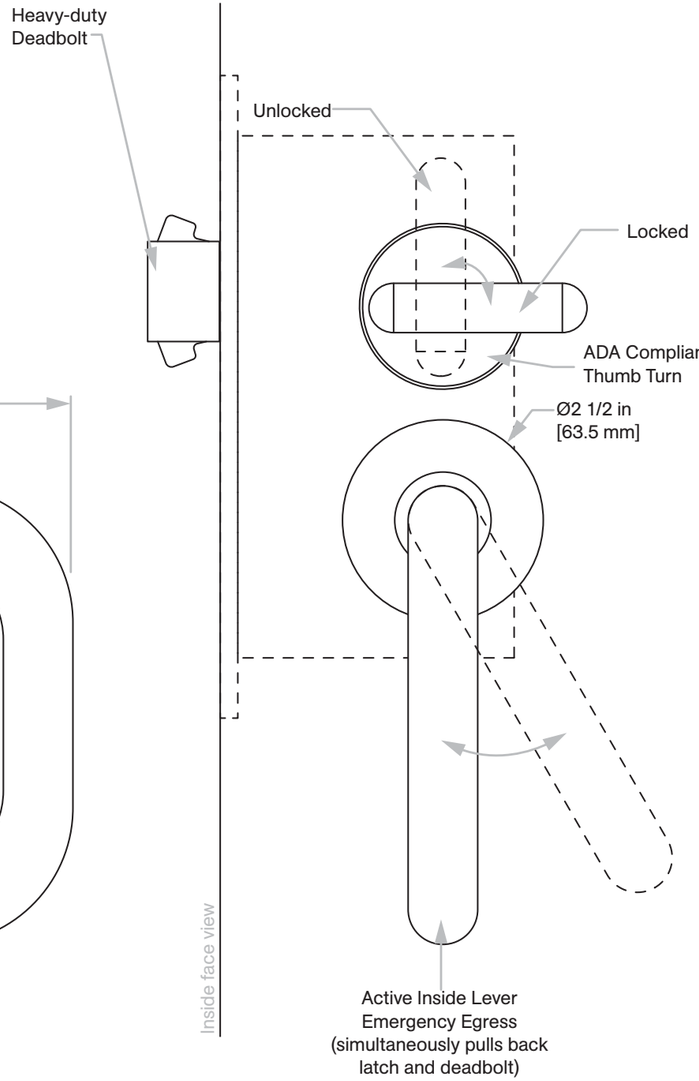
C-93EAL Back-to-Back ADA Handle Levers

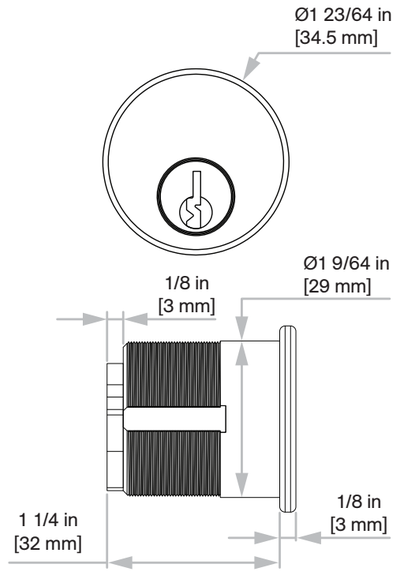


C-93AS Adjustable Strike





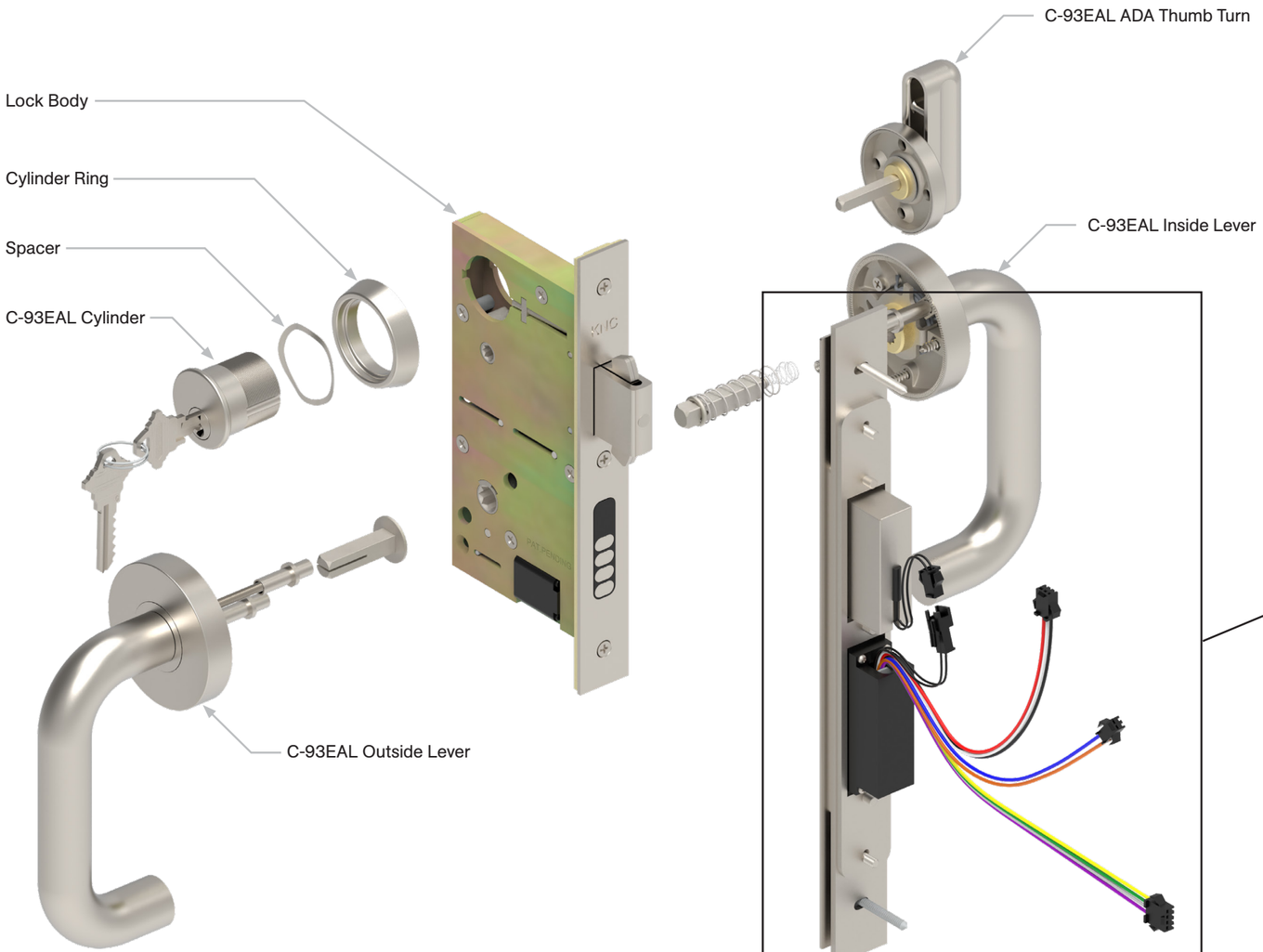


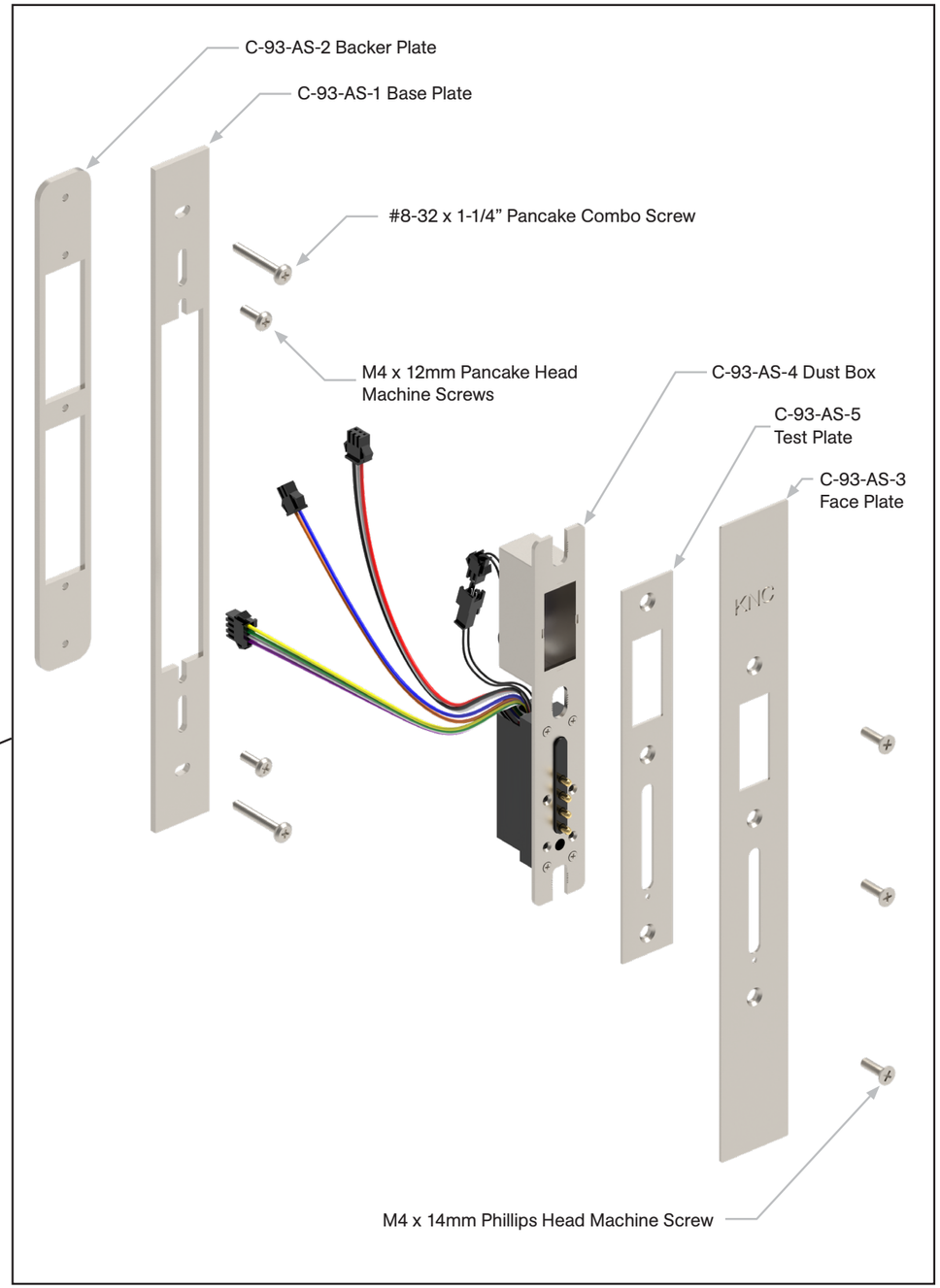


Left-Hand Shown
Not to Scale

C-93EAL-CHL How It All Comes Together

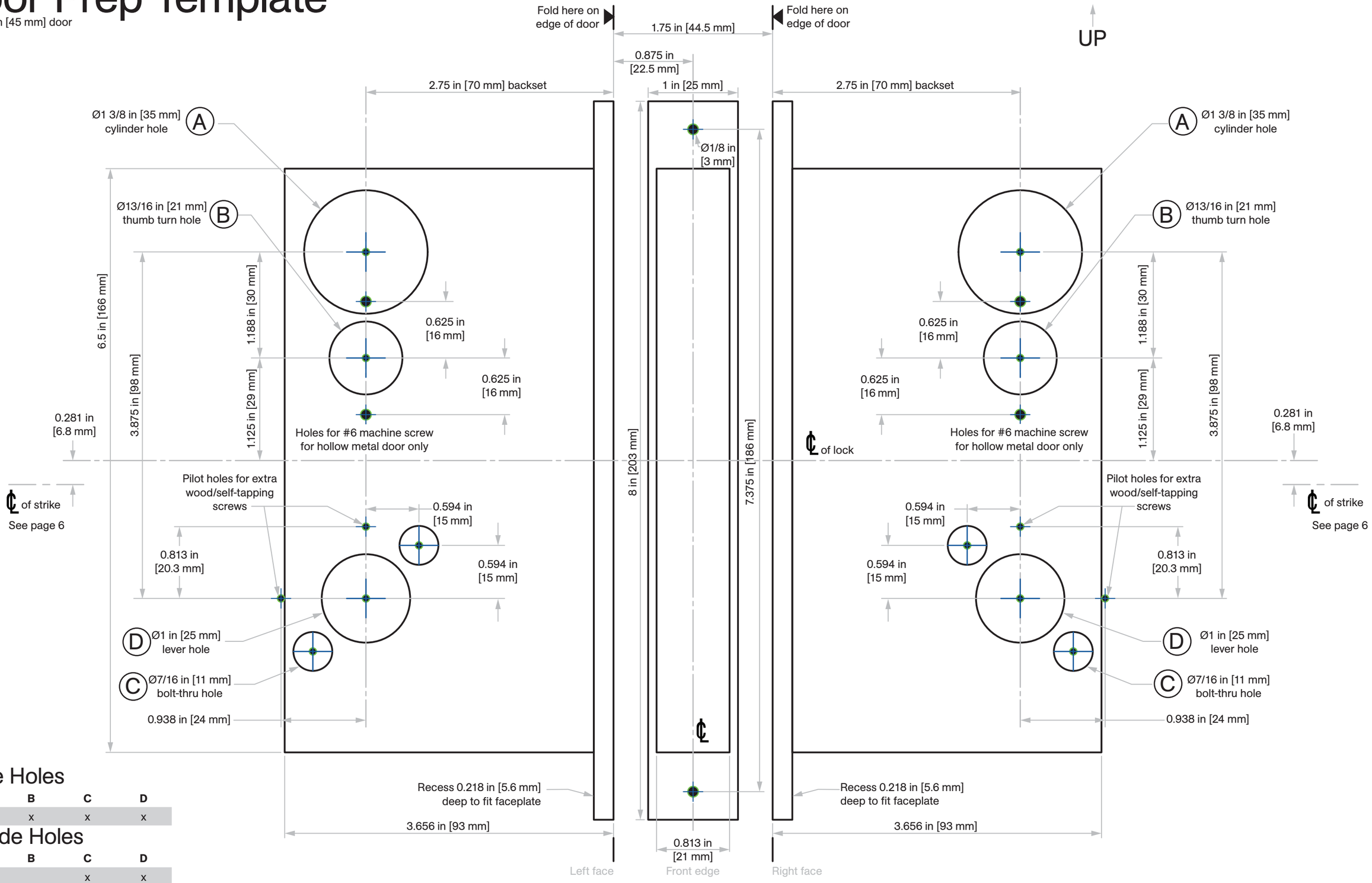
Left-Hand Shown
Not to Scale





Door Prep Template

For 1 3/4 in [45 mm] door



Inside Holes

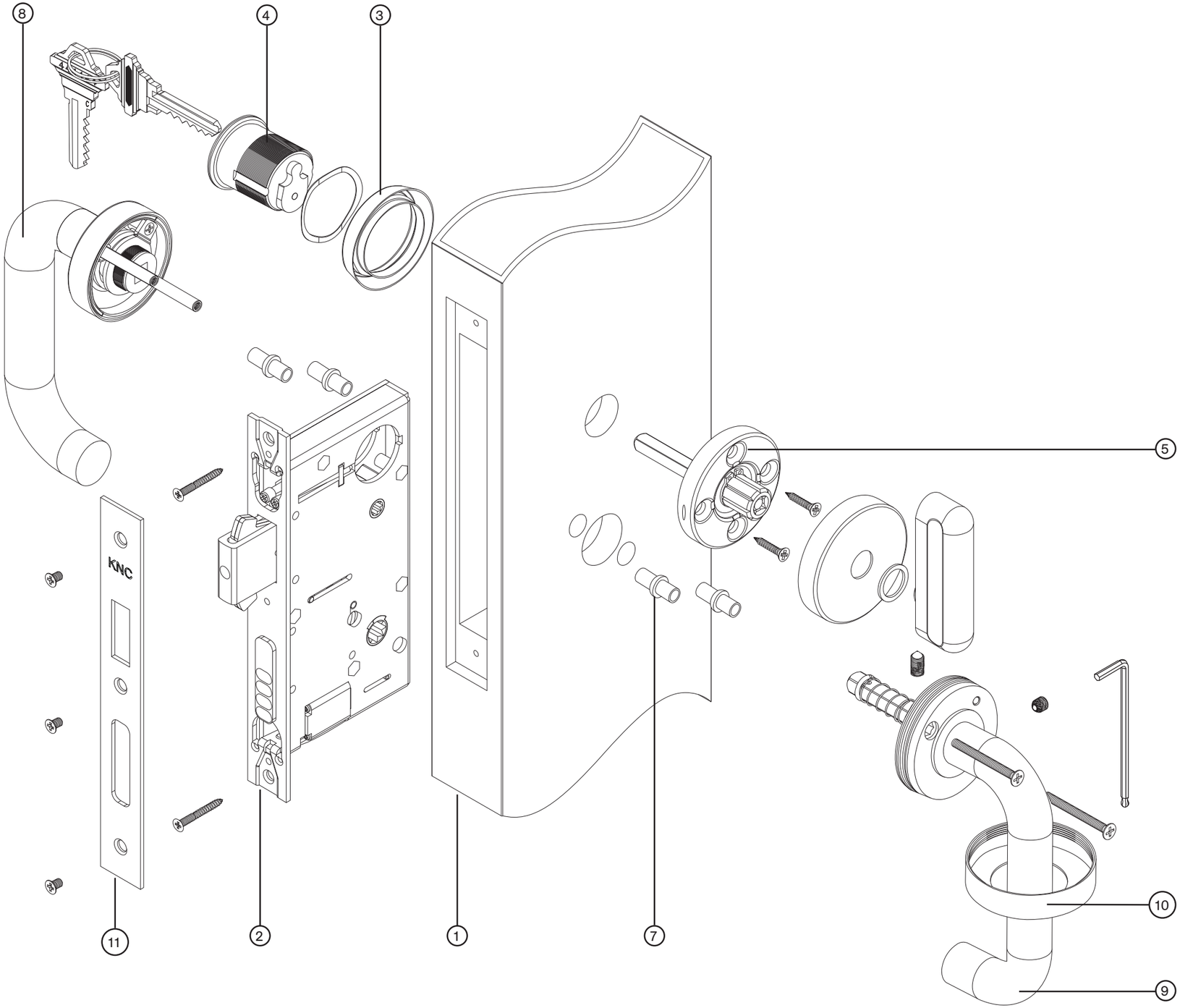
A	B	C	D
	x	x	x

Outside Holes

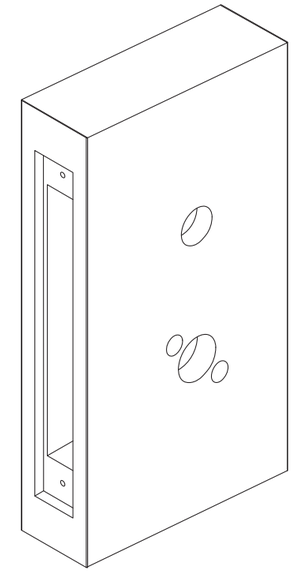
A	B	C	D
x		x	x

Installation Steps

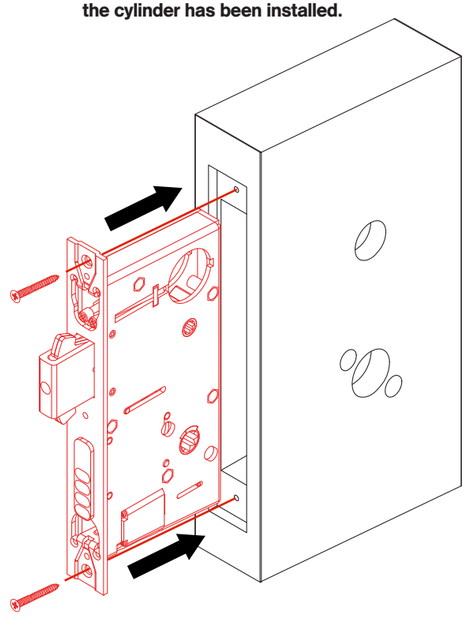
For Door



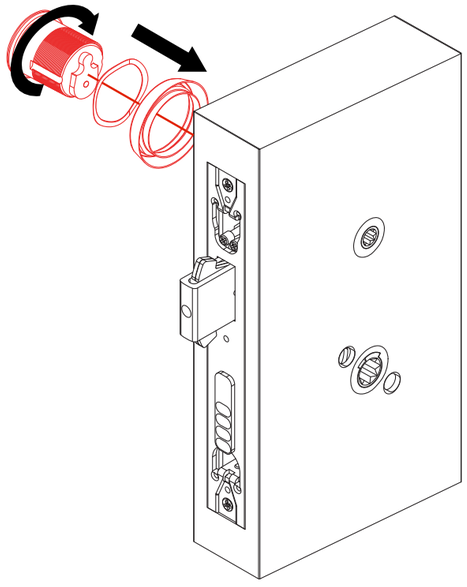
Step #1:
Prep door for lock body. Refer to Door Prep Template (page 3).



Step #2:
Remove faceplate from lock body. Secure mortise lock body into door cutout with two (2) M4 x 30 mm Combo Screws.
Note: Do not tighten faceplate screws until the cylinder has been installed.



Step #3:
Insert cylinder into lock body through spacer and cylinder ring.



Step #4:
Thread cylinder assembly from **step #3** into lock body.
Fig. 1 Key slot on cylinder should be in lower center position.
Fig. 2 Using a screwdriver, tighten screws on lock case to secure cylinder.

Fig. 1

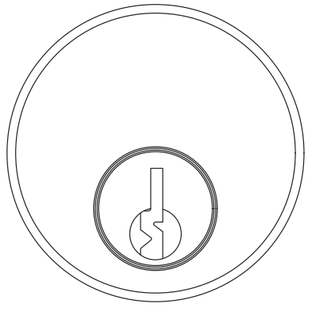
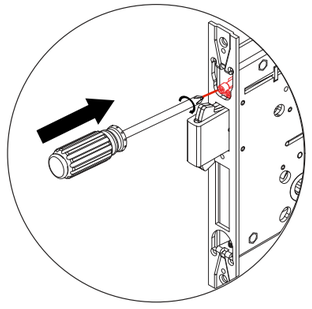
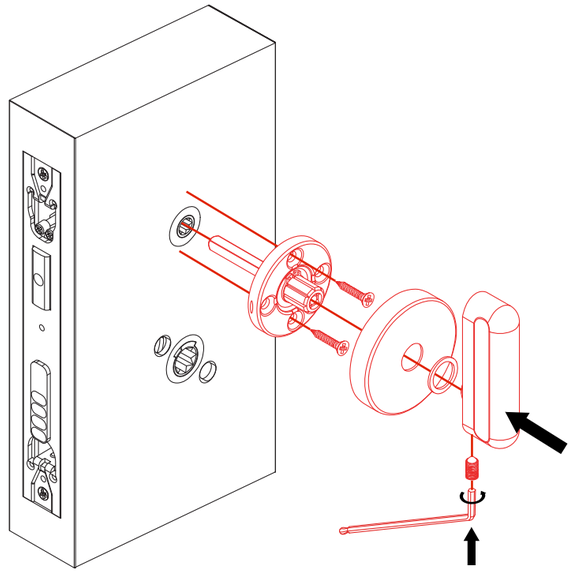


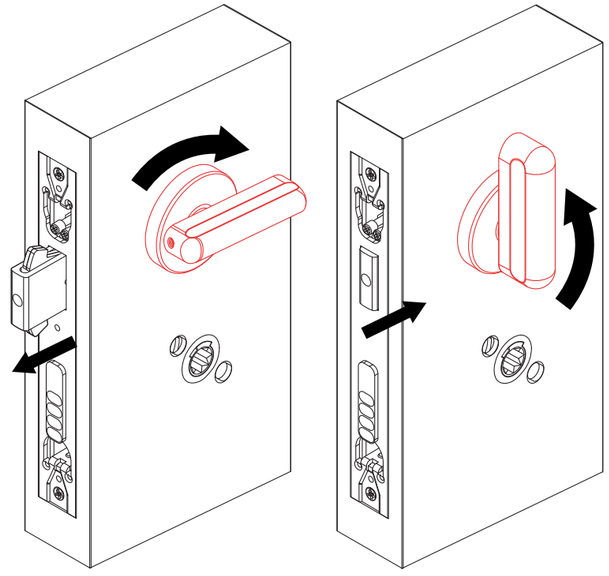
Fig. 2



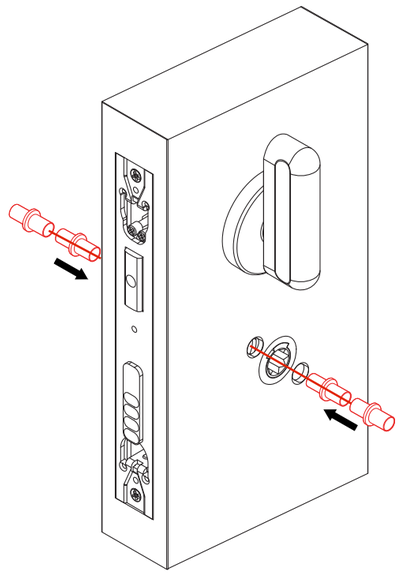
Step #5:
Secure inside thumb turn rose with two (2) M3.5 x 16 mm Screws. Snap on rose cover and insert clear washer before installing thumb turn trim. Use Allen Key to tighten set screw.



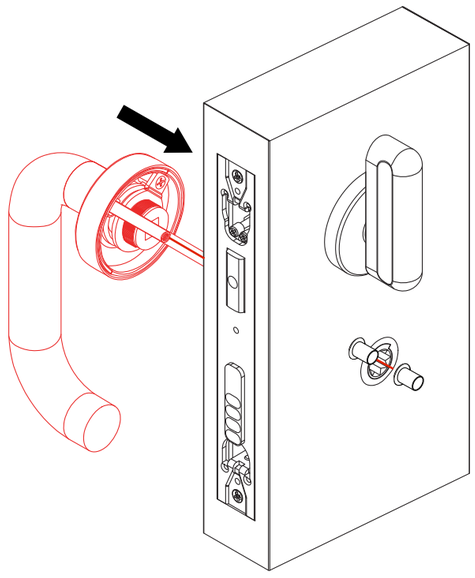
Step #6:
Rotate thumb turn by hand to ensure deadbolt throws and retracts smoothly.



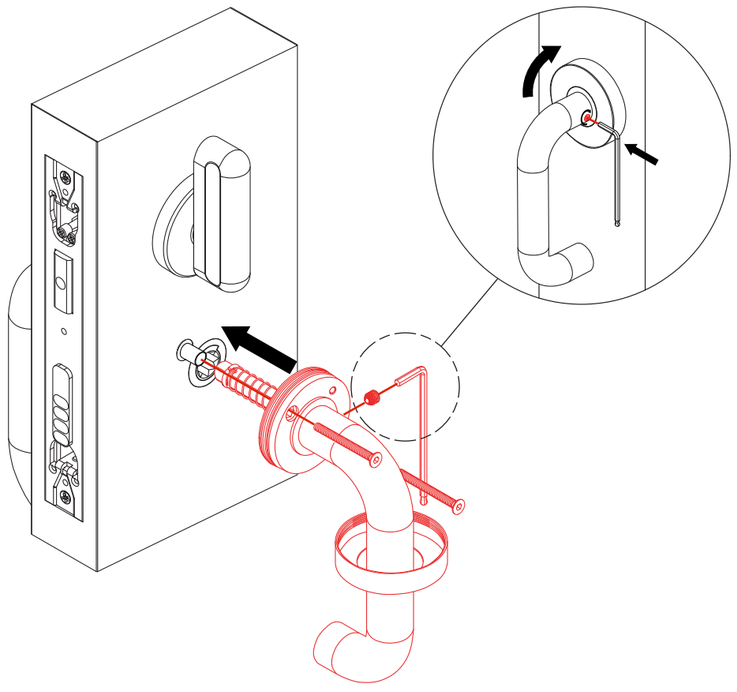
Step #7:
Install two (2) compression inserts on either side of door.



Step #8:
Install outside lever.
Note: Do not tighten set screws.

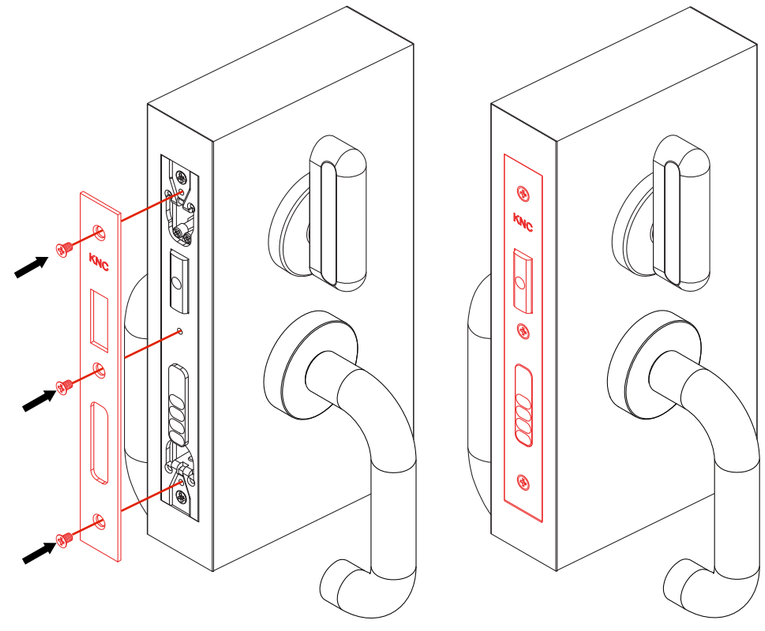


Step #9:
Install inside lever with two (2) M4 x 35 mm Machine Screws.
Note: Do not tighten set screws.



Step #10:
Install inside rose covers by threading.
Note: After lever is installed, fully tighten set screws on both inside and outside trims.

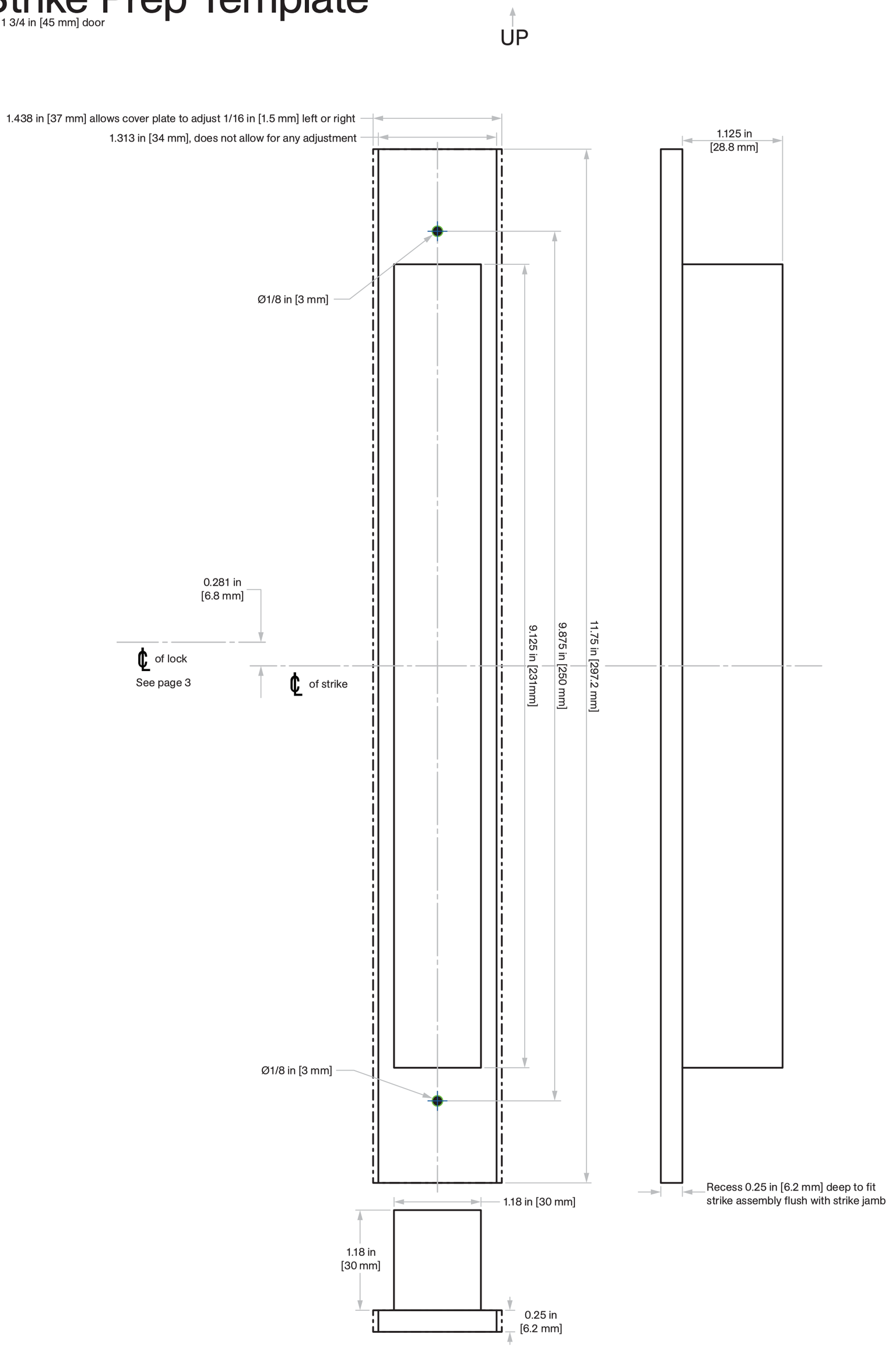
Step #11:
Secure armored faceplate with three (3) M4 x 6 mm Screws.



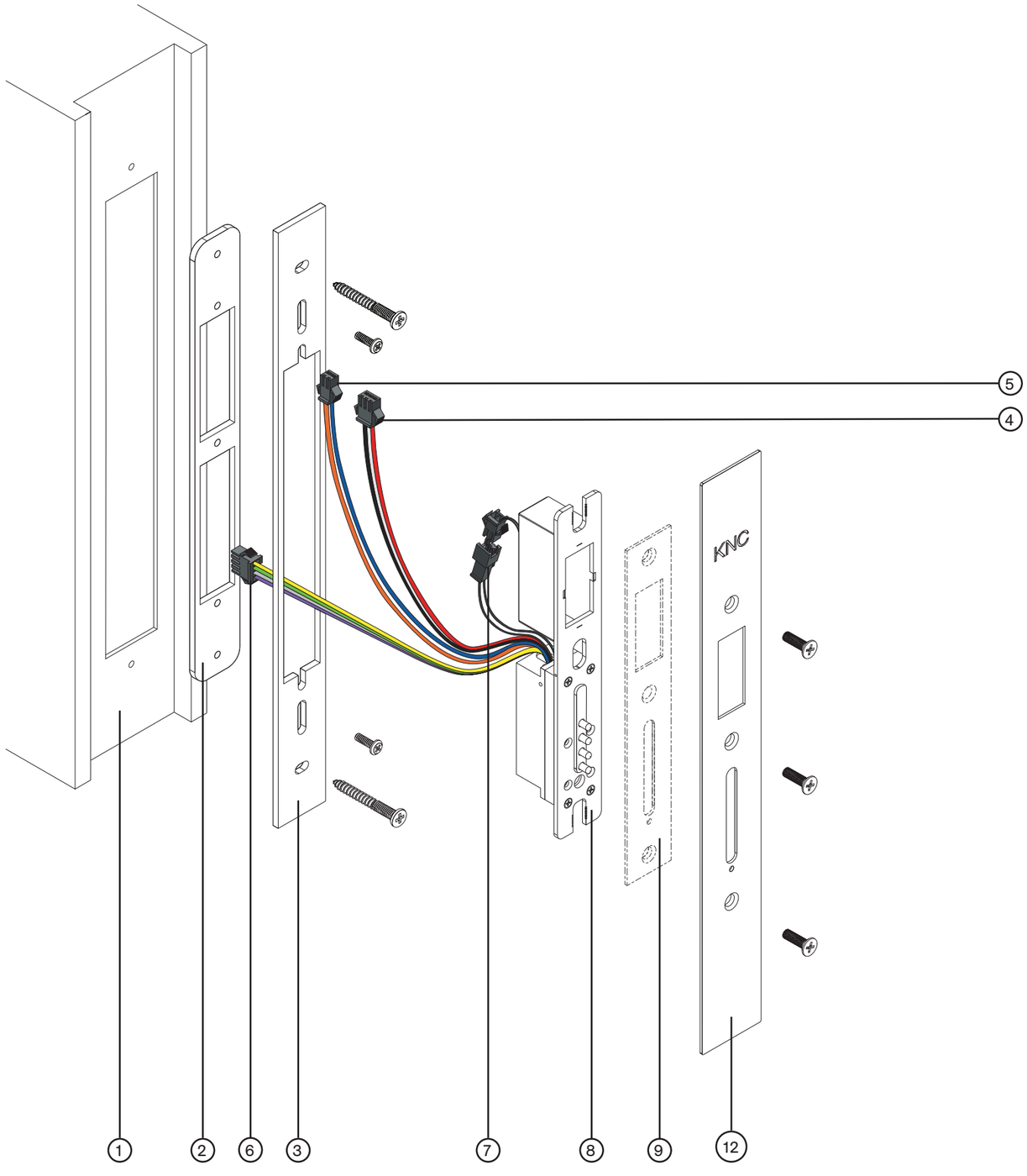
Continue to Strike Prep Template, Wiring Diagram and Strike Installation Instructions (Page 6-9).

Strike Prep Template

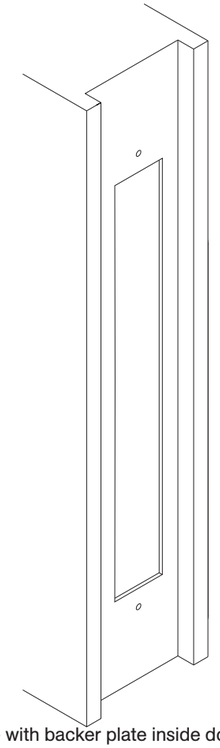
For 1 3/4 in [45 mm] door



Strike Installation Instructions



Step #1:
Prep jamb for strike. Refer to Door Prep Template (page 3).



Step #2:
Place backer plate behind base plate and loosely fasten together with two (2) M4 x 12 mm Pancake Head Machine Screws.

Fig. 1

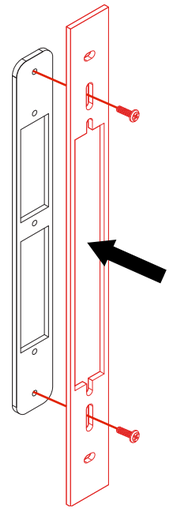
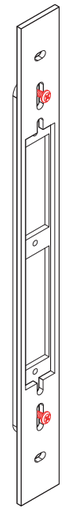


Fig. 2



Step #3:
Loosely fasten base plate to front of door frame with backer plate inside door cut-out with two (2) #8-32 x 1-1/4" Pancake Combo Screws. This will allow for minor adjustment before final securement.

Fig. 1

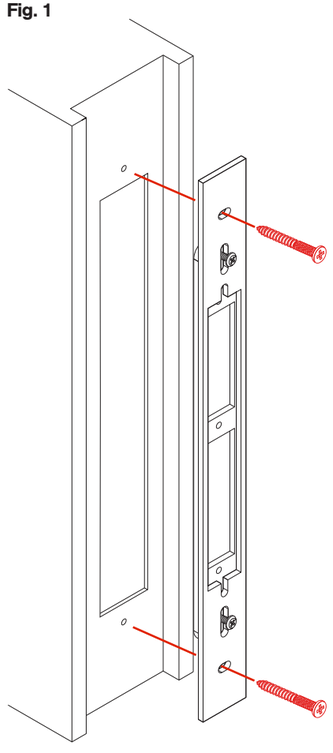
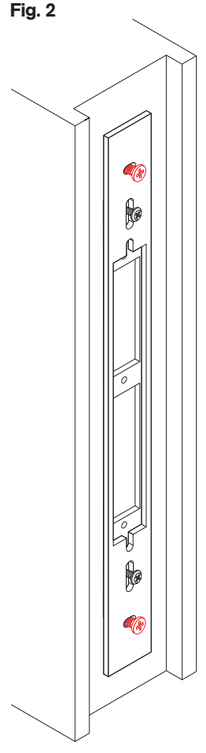
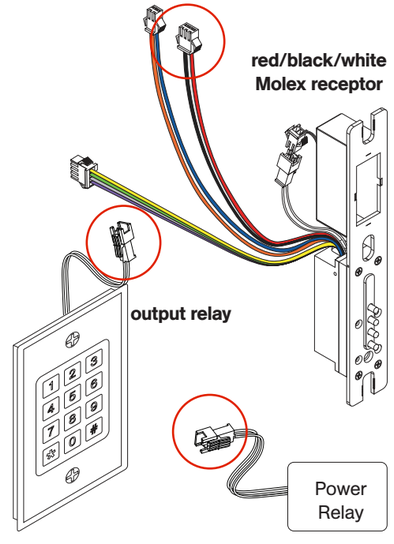


Fig. 2

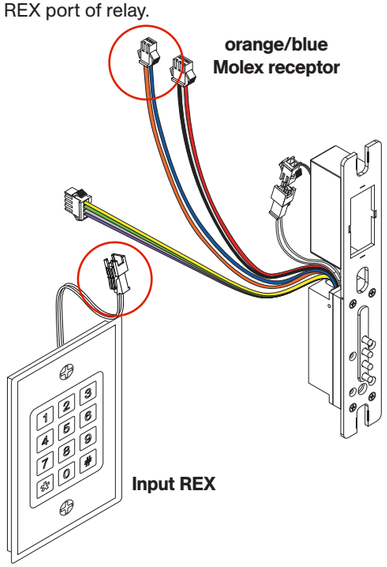


Step #4:
Connect the red/black/white Molex receptor to power and output relays.

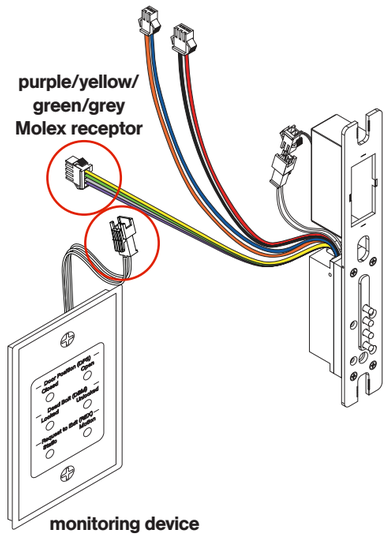
Note: Ensure connected relay has a timed function to control the powder supply. This lock only requires 3-6 seconds of continuous power to engage or retract deadbolt. Continuous power longer than needed will damage motor. Power supply duration varies based on the use of Catch 'N' Close or sound-sealing on the sliding door.

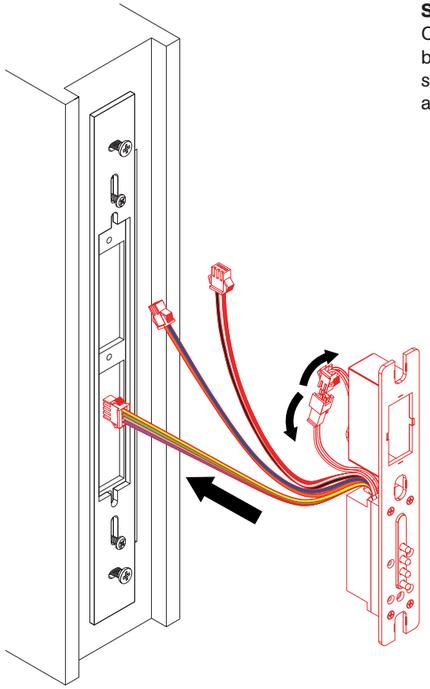


Step #5:
Connect orange/blue Molex receptor to Input REX port of relay.

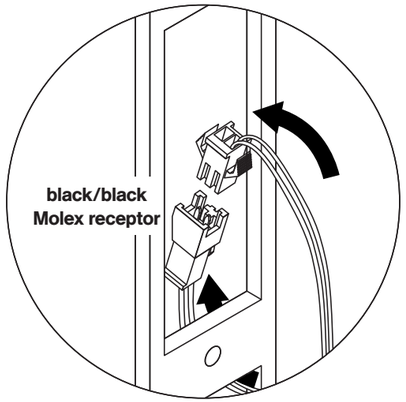


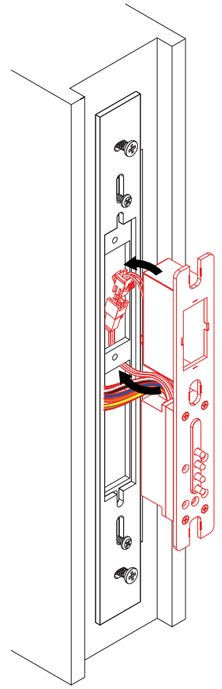
Step #6
Connect purple/yellow/green/grey Molex receptor to a monitoring device.



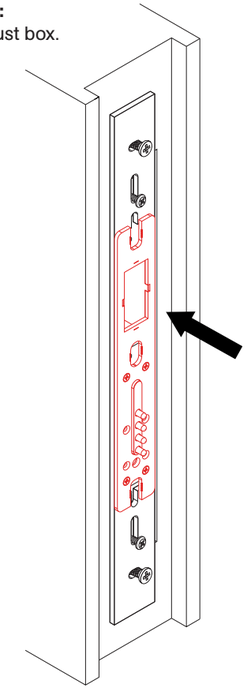


Step #7:
Connect black/black Molex receptor between deadbolt and main PCB unit on strike to enable deadbolt sensor to activate autolocking.

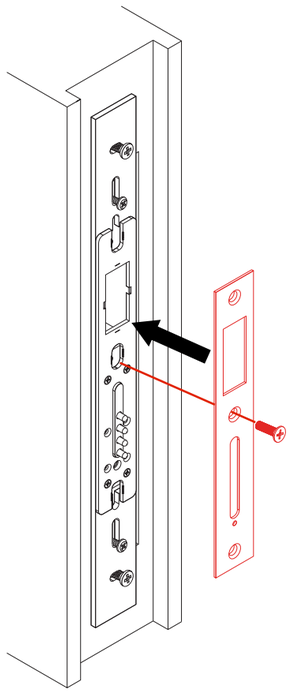




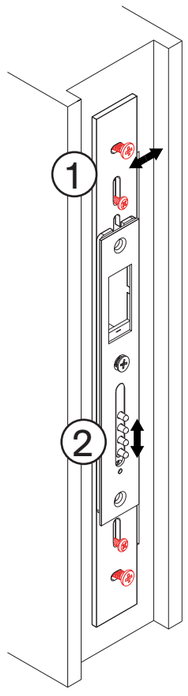
Step #8:
Insert dust box.



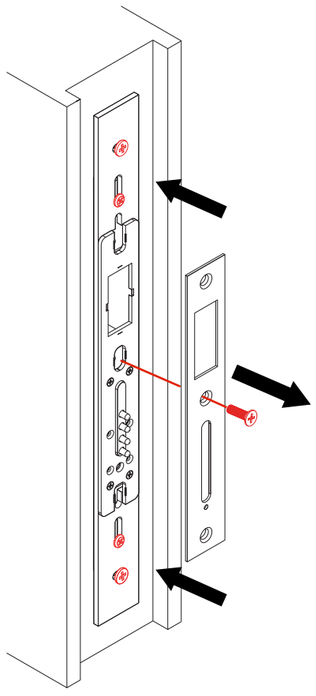
Step #9:
Loosely fasten test plate with one (1) M4 x 14 mm Phillips Head Machine Screw through center hole.



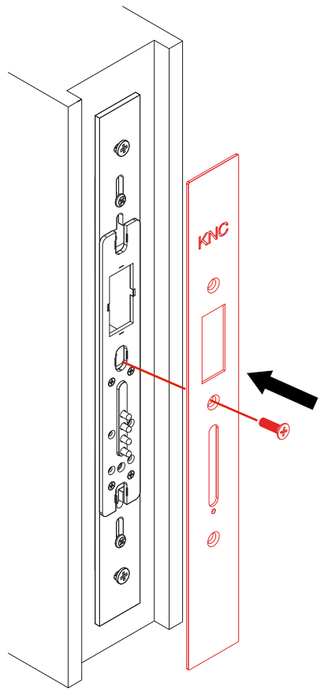
Step #10:
Make minor adjustments accordingly. Base plate shifts horizontally ①, and backer plate shifts vertically ② .



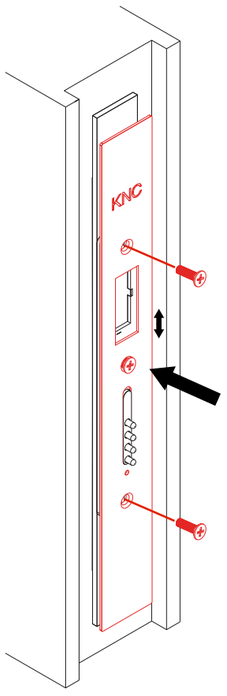
Step #11:
Once position is finalized, tightly fasten screws through backer plate and base plate. Unfasten center screw from test plate.

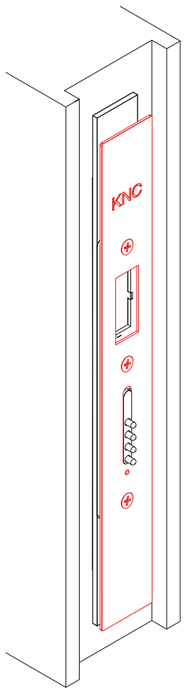


Step #12:
Loosely fasten face plate through center hole to strike with one (1) M4 x 14 mm Phillips Head Machine Screw.

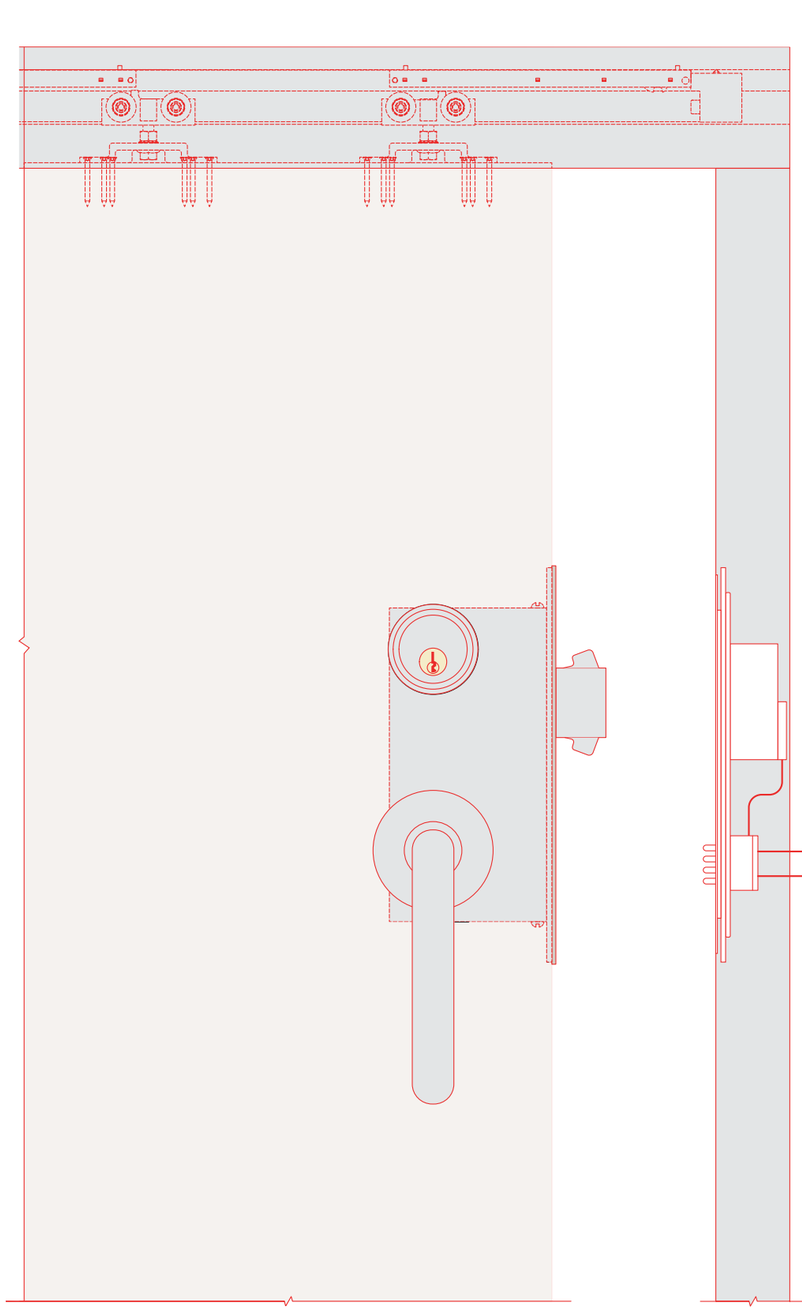


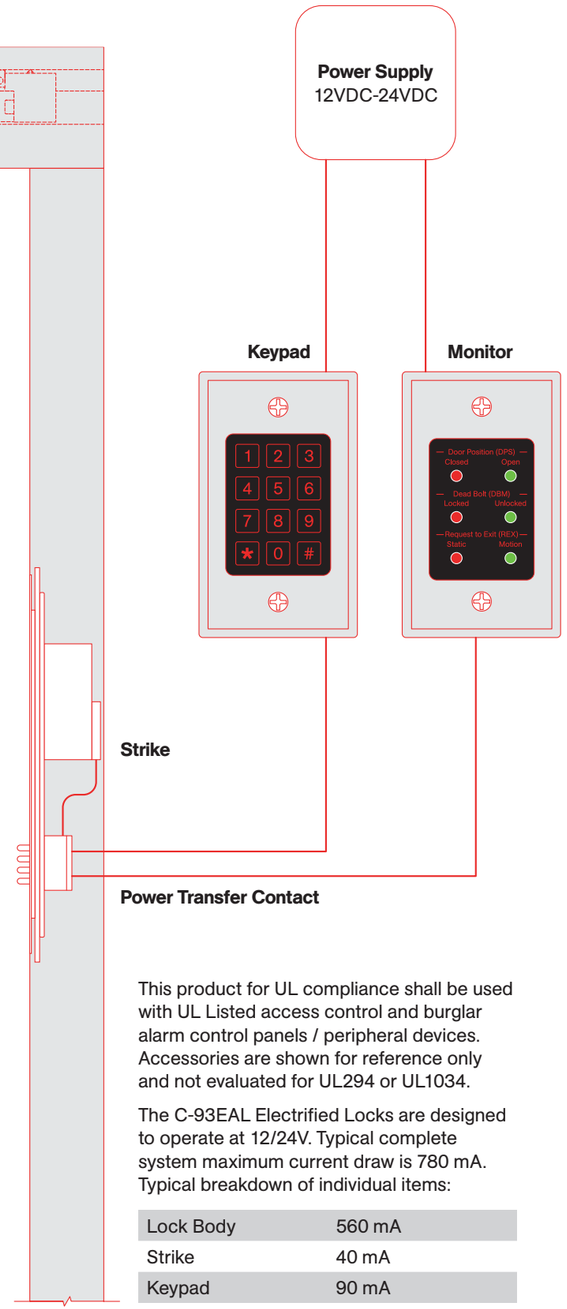
Step #13:
Adjust dust box to desired height. Tighten middle screw. Fasten top and bottom with two (2) M4 x 14 mm Phillips Head Machine Screws.





Wiring Diagram

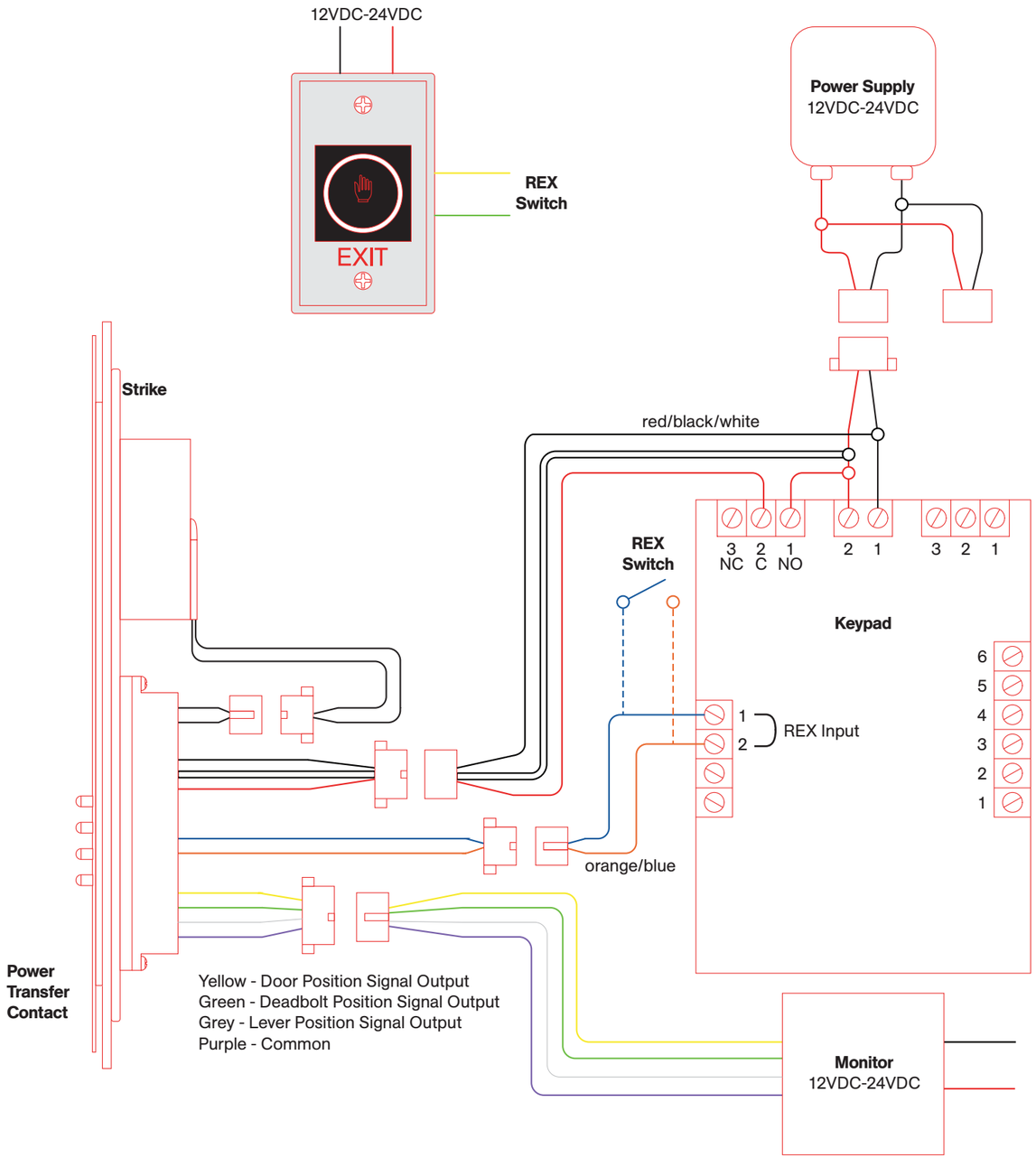




This product for UL compliance shall be used with UL Listed access control and burglar alarm control panels / peripheral devices. Accessories are shown for reference only and not evaluated for UL294 or UL1034.

The C-93EAL Electrified Locks are designed to operate at 12/24V. Typical complete system maximum current draw is 780 mA. Typical breakdown of individual items:

Lock Body	560 mA
Strike	40 mA
Keypad	90 mA
Handwave	30 mA
Relay	30 mA
Monitor	30 mA



For UL compliance the product is to be powered via a UL294 or UL603 or UL2610 power supply with a class 2 power limited output suitable for the power requirement of the product.

Door Position Switch (DPS), Deadbolt Monitoring Switch (DBM), Request to Exit (REX): 250K cycles of operation resistive load

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