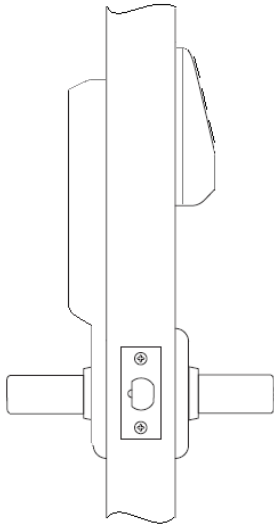


Installation Instructions



Ritenery International, LLC

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Position template and mark drill points

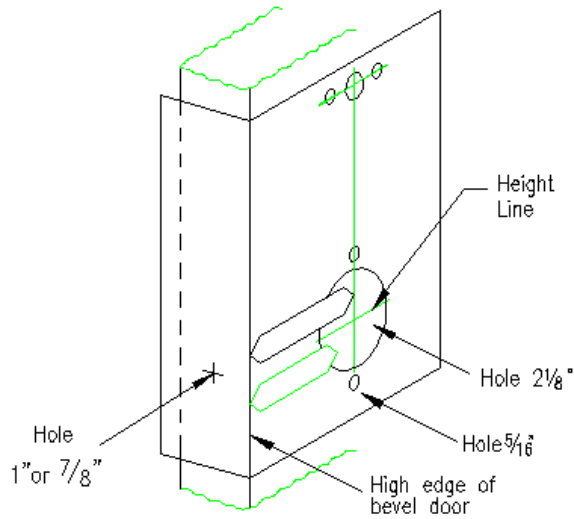


Figure 1 Positioning the Template

- Measure and mark the horizontal centerline of the lever (the centerline for the chassis hole) on the door and door jamb. Mark the vertical centerline of the door edge.
- Fold the template on the dashed line and carefully place it in position on the high side of the door bevel as shown in Figure 1. Looking through the hole from the opposite side of the door, align the template so that you see the template outline of the 2 1/8" diameter chassis hole.
- Tape the template to the door.
- Center punch the necessary drill points. Refer to the instructions on the template.

Note: For steel frame applications, align the template's horizontal centerline for the latch with the horizontal centerline of the frame's strike preparation.

Drill holes and mortise for latch face

Drill the holes listed below:

- chassis hole
 - ◆ 2 1/8" diameter
 - ◆ through door
- Stud holes
 - ◆ 5/16" diameter
 - ◆ through door
- latch hole
 - ◆ 1" diameter
 - ◆ meets chassis hole
- anti-rotational notches, .
 - ◆ 1/8"x1/8"
 - ◆ 1/8" deep notches on both side of door
- motor wire channel
 - ◆ 1" x 1/8"
 - ◆ 1/8" deep on inside of the door

Note 1: To locate the center of a hole on the opposite side of the door, drill a pilot hole completely through the door.

Note 2: For holes through the door, it is best to drill halfway from each side of the door to prevent the door from splintering.

Install latch

- Install the latch in the door as shown in Figure 2.
- Check that the door swings freely.

Note: The latch tube prongs should be centered and should project into the chassis hole.

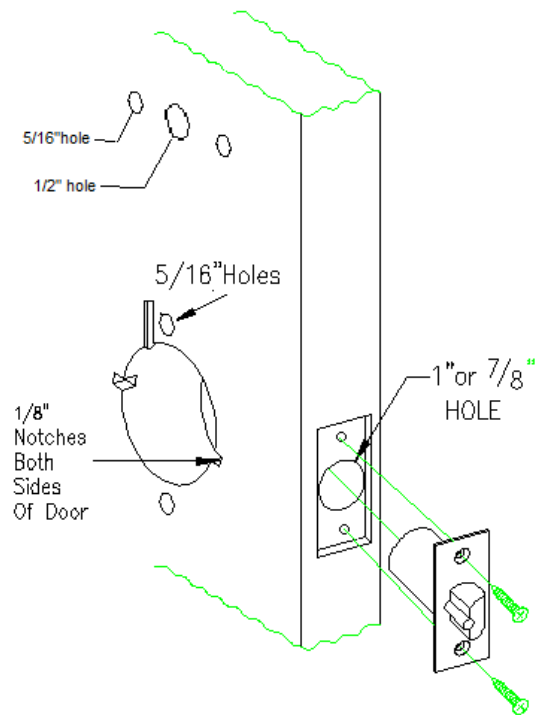


Figure 2. Drilling holes and install latch

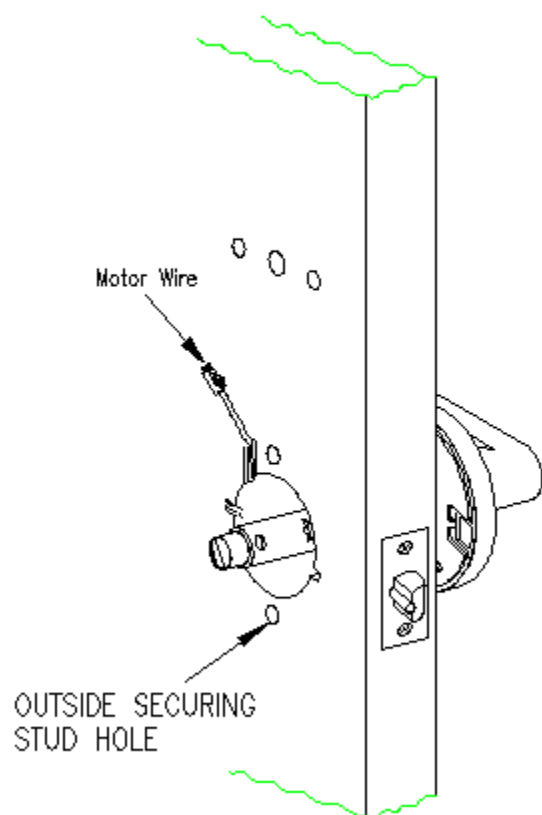


Figure 3. Install Outside Trim

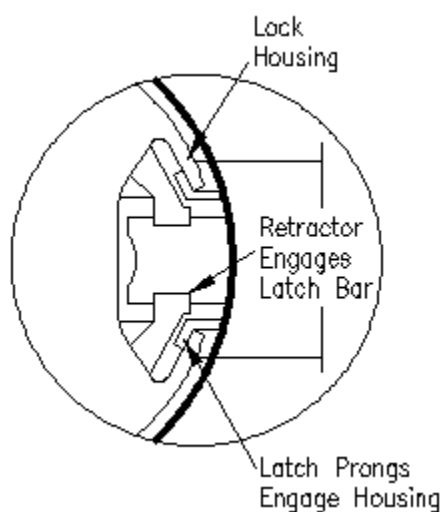


Figure 4.

Install Outside Trim

- Feed motor wire into the lock body hole from outside of door
- Install lock body into cross-bore hole from outside of the door (locked side)
- Lock body must engage both the latch unit prongs and tail piece (as shown in Figure 4.)

Install Inside Trim

- If wood door, feed wire up through the routed channel as shown
- If metal door, feed wire connector within the door core and out hole on inside of door
- Attach inside rose assembly and secure with screws shown in Fig. 5

Note: Guide the motor wire carefully through the routed channel; make certain that wires are not pinched.

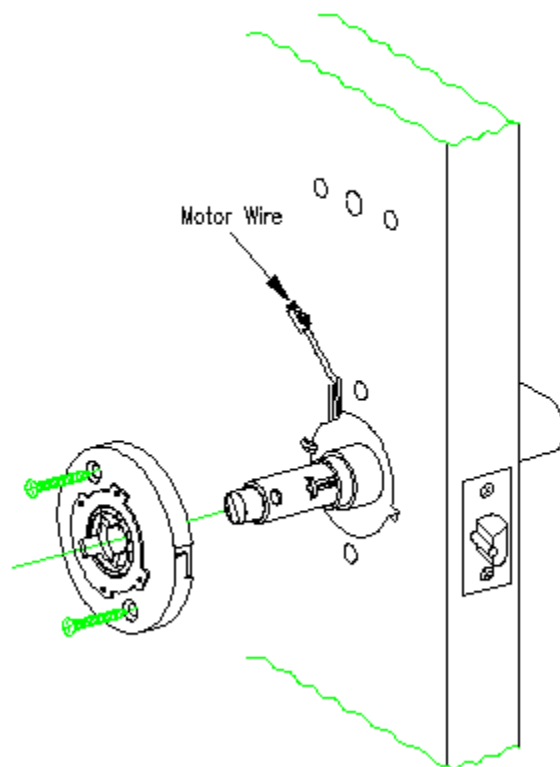
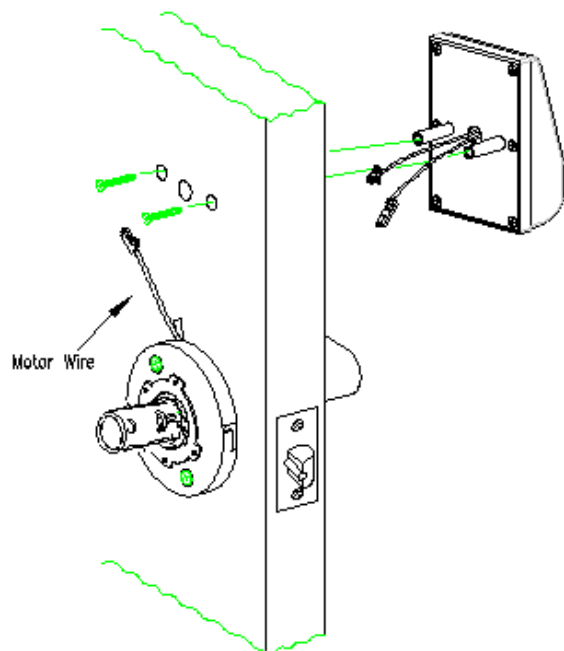


Figure 5. Install Inside Trim

Install Outside Escutcheon



- From the outside of the door, feed keypad wires through center hole (1/2") into the inside of the door.
- Insert the escutcheon studs through two 5/16" holes

Fig. 6 Install Outside Escutcheon

Install Inside Escutcheon

- Carefully guide the wire into the inside escutcheon through the center channel. Make certain that wires are not pinched by obstructions in escutcheon
- Place inside escutcheon flat against the door
- Secure inside escutcheon with two #8-32 x 1 1/4" flat head screw thru interior of inside escutcheon and into post of exterior escutcheon
- Straighten escutcheon and tighten the round head screw
- Install Inside Door Handle
- Place (4) AA battery Holder into the compartment as indicated inside escutcheon
- Attach back cover to inside escutcheon and secure with #8-32 x 3/8" security screw

DO NOT OVER TIGHTEN

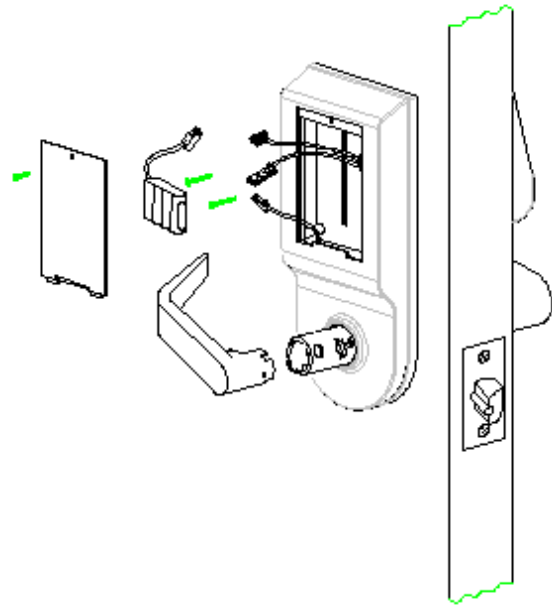


Fig. 7 Install Inside Escutcheon

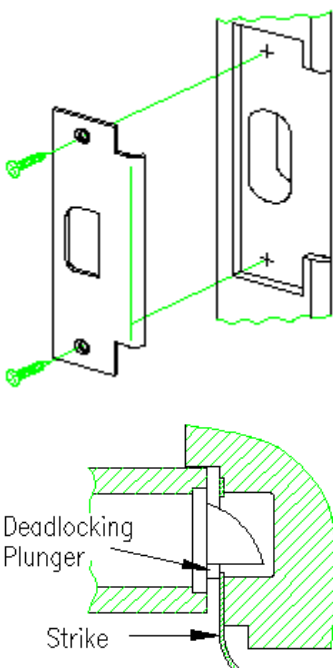


Fig 8 Install Strike Plate

Install Strike Plate

- In alignment with the center of the latch bolt, mortise the door jamb to fit the strike box and strike plate.
- Drill the holes for the screws used to install the strike plate.
- Secure the strike with the two screws provided.
- Check the position of the deadlocking plunger against the strike plate.

Caution: The deadlocking plunger of the latch bolt must make contact with the strike plate, as shown in Figure 8. The plunger deadlocks the latch bolt and helps prevent someone from forcing the latch open when the door is closed.



Test Lock

- Rotate inside lever to test for latch bolt retraction
- Place key into cylinder and rotate key for latch bolt retraction
- Tighten latch bolt screws on edge of door
- Test keypad operation per manual's instructions
 - Press 12345#
The green light will flash once and unlock.
 - Turn the outside lever and open the door.

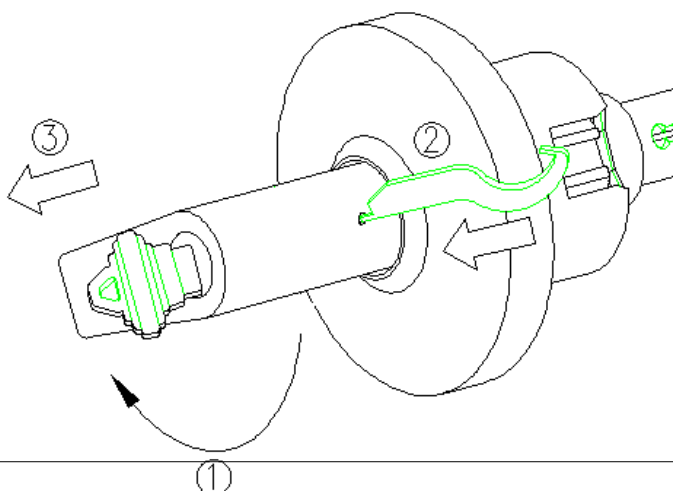
If the mechanism doesn't unlock, remove the back cover and check for proper orientation and seating of the batteries or motor connector. Ensure that wires are not pinched.

Reset the electronics by unplug the battery pack, press and hold any numeric key for 10 seconds and release. Plug the battery pack back on, within 5 seconds press and hold # key. The system will go through a self-test and flash red and beeps six times.

Troubleshooting

How to Remove Outside Lever

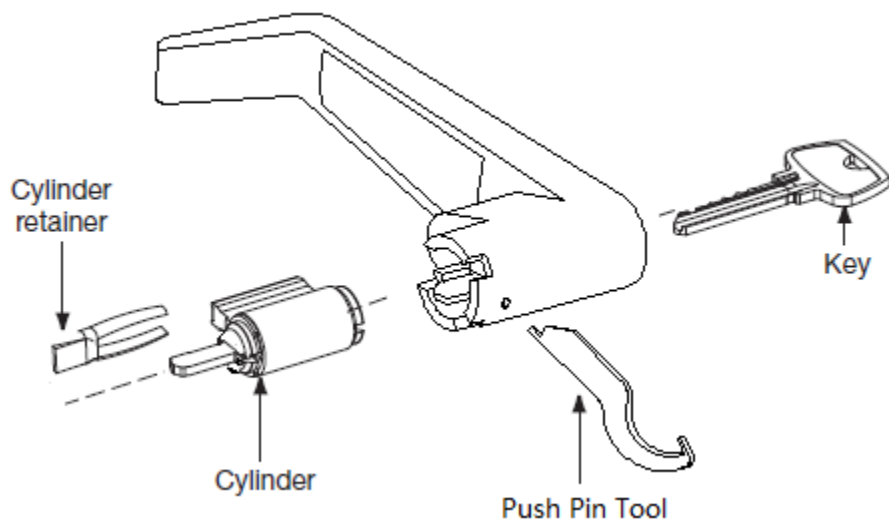
1. Insert key, rotate 45° (1/4 Turn) clockwise and hold
2. Depress lever retainer with push pin tool (provided)
3. Pull off lever



Problems	Solutions
Levers pull off	<ol style="list-style-type: none"> 1. Lever catch not engaging. Lock may not be centered or door is too thick. 2. Cylinder retainer not flush. 3. Non-standard sized cylinder. 4. Outside rose located improperly.
Outside lever removable without using key	<ol style="list-style-type: none"> 1. Tailpiece installed in wrong orientation. 2. Wrong tailpiece.
Latch won't retract	<ol style="list-style-type: none"> 1. Incorrect retractor/latch engagement or alignment. 2. Poor door preparation or misalignment thru-bolts.
Key binds in lock	<ol style="list-style-type: none"> 1. Lever catch not fully engaged. 2. Check for proper tailpiece.
Key cannot be removed from cylinder	<ol style="list-style-type: none"> 1. Key in Wrong Position 2. Wrong tailpiece alignment.

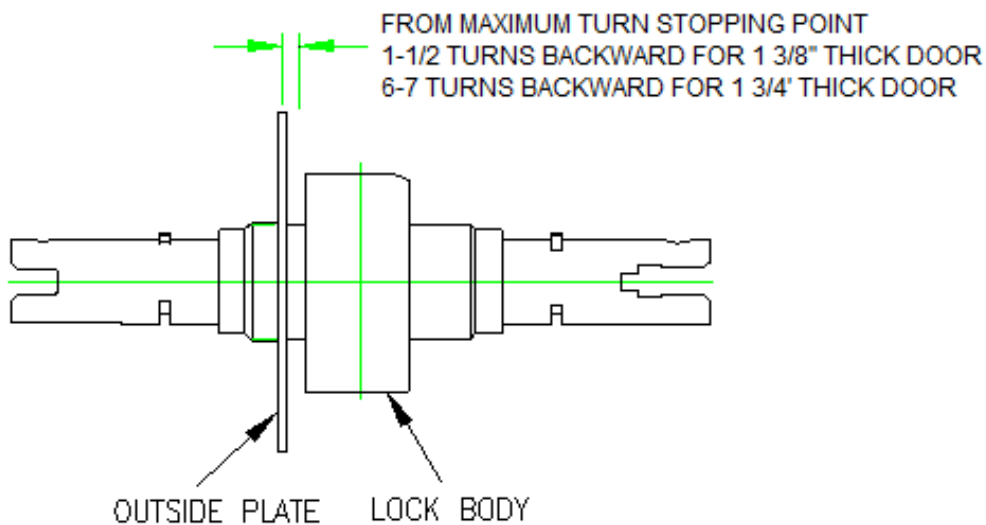
How to Change Cylinder (if required)

1. With outside lever in hand use standard pliers; pull out cylinder retainer
2. Remove key and cylinder from lever
3. Insert new cylinder
4. Secure by pressing cylinder retainer



How to Adjust for Door Thickness

1. Disassemble the outside lever and remove the outside rose assembly
2. Adjust the door thickness by turning the outside plate by hand

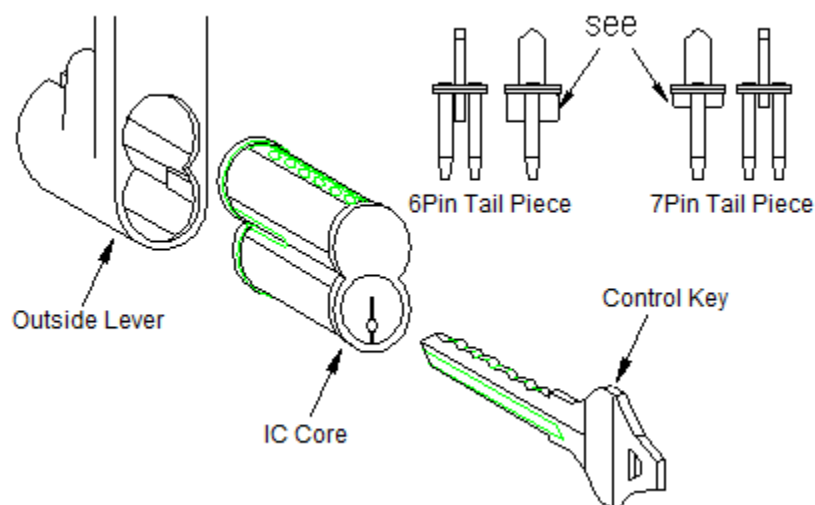


Note: The Lock Is Factory-Packed For 1 3/4" Thick Door

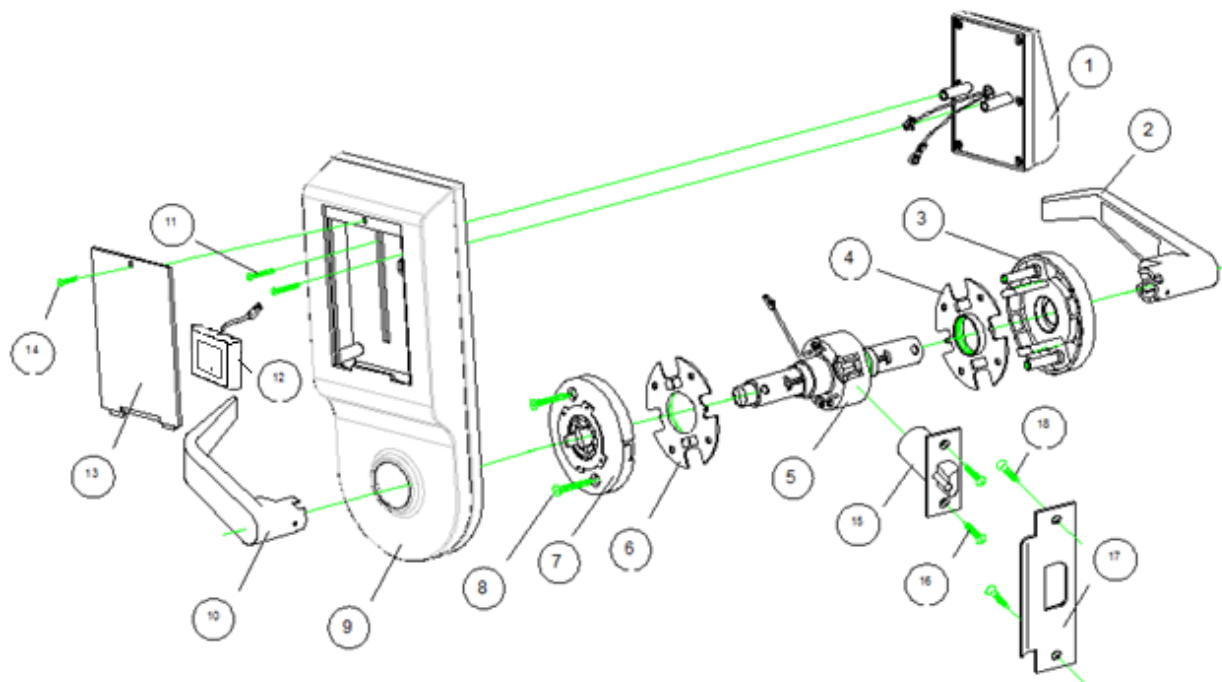
How to Replace IC Core

1. Insert the control key into the core and rotate the key 15 degrees

- to the right.
2. Pull the key to extract the core



List of Parts



Item	Part Number	Description	Quantity
1	10-1001	Outside escutcheon & keypad	1
1A	10-1001A	Keypad assembly only	1



Installation Instructions for R-5100 Lockset

1B	10-1001B	iButton Prob	1
2	10-1002	Outside Lever (Standard)	1
2A	10-1002A	Outside Lever For Best SFIC	1
3	10-1003	Outside Rose Assembly	1
4	10-1004	Outside Plate	1
5	10-1005	Motorized Lock Chassis (Standard)	1
5A	10-1005A	Motorized Lock Chassis For Best SFIC	1
5B	10-1005B	Motorized Lock Chassis For Thick Door	1
6	10-1006	Inside Plate	1
7	10-1007	Inside Rose Assembly	1
8	10-1008	Screw #10-32UNFx1 5/8" L	2
9	10-1009	Inside escutcheon assembly	1
10	10-1010	Inside Lever	1
11	10-1011	Screw PH FL HD 8-32 X 1 1/2"	2
12	10-1012	Waterproof Battery Case	1
13	10-1013	Back Cover Plate	1
14	10-1014	Flat head screw (security)	1
15	10-1015	2-3/4" Backset latch (standard)	1
15A	10-1015A	2-3/8" Backset latch	1
16	10-1016	Screw PH FL HD	2
17	10-1017	Strike Plate	1
18	10-1018	Screw PH FL HD	2

Technical drawing of a door latch assembly, showing front and side views with dimensions.

Front View (Left):

- Circle representing the latch body with a diameter of $\varnothing 54$ and a radius of $1"$.
- Label: "MARK CENTER OF DOOR THICKNESS".
- Label: "LATCH".
- Two rectangular backsets are shown:
 - Top: $2 \frac{3}{4}"$ BACKSET (70)
 - Bottom: $2 \frac{3}{8}"$ BACKSET (60)
- Vertical dimension lines on the right indicate distances from the center line:
 - From center to top backset: $(35) 1 \frac{3}{8}"$
 - From center to bottom backset: $(35) 1 \frac{3}{8}"$
 - Total distance between backsets: $(70) 2 \frac{3}{4}"$

Side View (Right):

- Three circles representing holes along a horizontal line:
 - Left hole: $1/2"$ HOLE
 - Middle hole: $5/16"$ HOLE
 - Right hole: $5/16"$ HOLE
- Horizontal dimension from the center line to the middle hole: $(38) 1 \frac{1}{2}"$
- Vertical dimension from the center line to the top hole: $(\varnothing 8) 5/16"$
- Vertical dimension from the center line to the bottom hole: $(\varnothing 8) 5/16"$
- Vertical dimension from the top hole to the center line: $(30) 1/8"$
- Vertical dimension from the bottom hole to the center line: $(30) 1/8"$
- Vertical dimension from the top hole to the bottom hole: $(70) 2 \frac{3}{4}"$

Additional Notes:

- Vertical dimension on the far right: $(140) 5 \frac{1}{2}"$
- Labels "TOP BEAD" and "BOTTOM BEAD" are present on the left side of the front view.