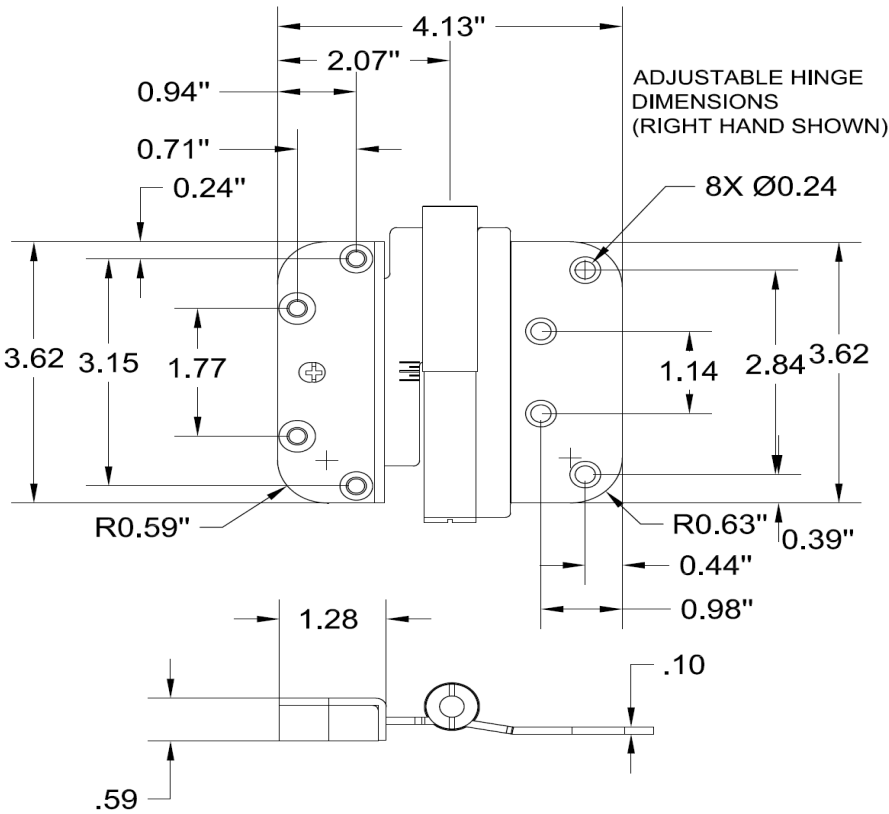
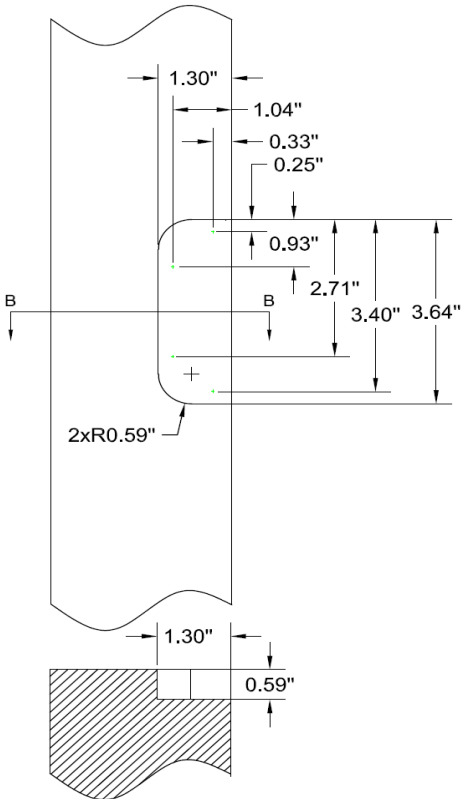


# M3 DUAL ADJUSTABLE LIFT OFF CONCEALED BALL BEARING HINGE

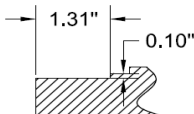
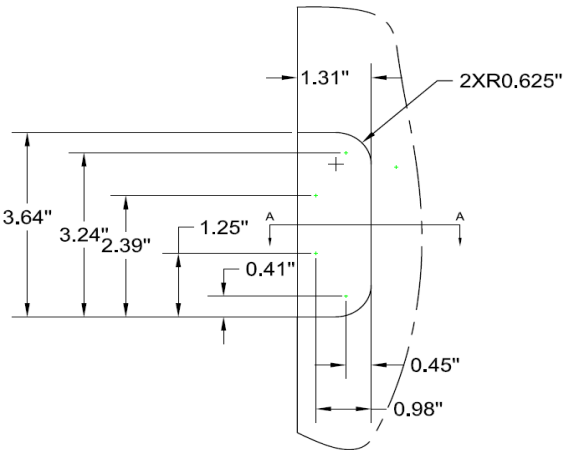


DOOR

FRAME



SECTION B-B



SECTION A-A

Routing Details



# Rockwell M3 Dual Adjustable Lift-Off Hinge Technical Data Sheet

## Part Numbers: 1250 series and 1251 series

Hi-Performance Lift Off Hinge is suitable for Medium to high frequency Residential door applications according to ANSI/BHMA 156.1. The Rockwell Hi-Performance Hinge has been independently tested to exceed ANSI/BHMA 156.1 with 3 hinges on a 180lbs door for 350,000 cycles.

Minimum Door Thickness: 1-3/4" (44mm)

Maximum Adjusted Door Weight with 3 hinges: 180 lbs.

Maximum Adjusted Door Weight with 4 hinges: 240 lbs.

## Installation Instructions

Rockwell Hi-Performance Lift Off Hinges are Handed.

The Hinge body with the Pin is fitted onto the door panel with the Pin Pointing Down.

The Hinge leaf with the Knuckle is installed on the door Frame with the knuckle hole pointing up to receive the Pin.

Hi-Performance Lift Off Hinges are precisely manufactured with minimum clearances or play. Ensure the Hinge Body and Hinge leaf are accurately installed on both horizontal and vertical planes and the axis of the Hinge Pin and Hinge Knuckle are Inline.

Hi-Performance Lift Off Hinges are pre-lubricated. Depending on the extreme weather conditions the hinge may need lubrication but it is typically not required. Lithium Grease is the recommended lubricant.

Prepare the Door Panel and the Frame. Mark and Mortise both the door panel and Frame.

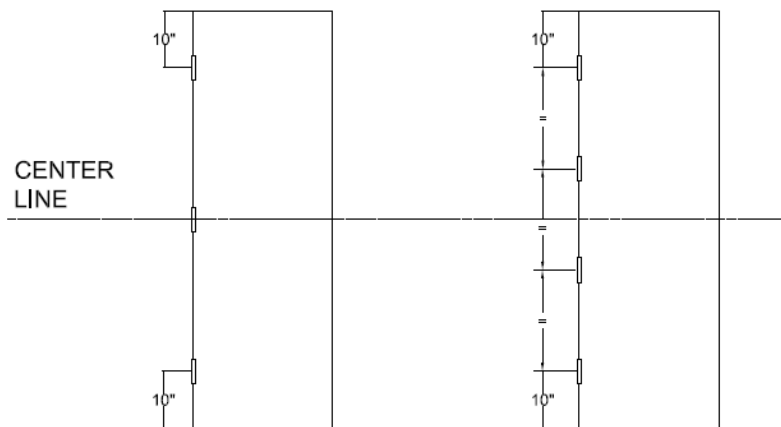
Drill Pilot holes, in the size to suit the door material being used.

Fasten hinge bodies to the Door Panel using #10 screws. Minimum 1-1/4" length is recommended on the door Panel. Ensure the hinge Pin is pointing down.

Fasten the hinge leaf onto the Door Frame, #10 by minimum 3/4" length is recommended. One screwhole is typically left out without a screw and is installed with a 1-1/2" or 2" long screw to reach the stud after the door is positioned into the rough opening.

Screw Lengths and types vary depending on the materials utilized. Ensure screws are fully tightened.

Hinges are pre-set in the Mid-position for 4 way adjustment. Do not adjust hinge until it is positioned into the rough opening to ensure maximum 4 way adjustment. Always adjust hinges vertically prior to horizontal adjustment.

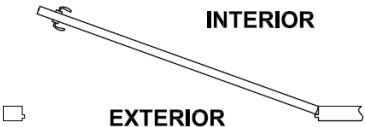
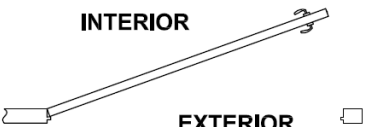
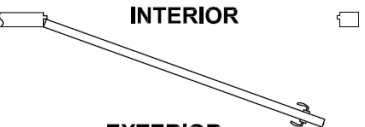
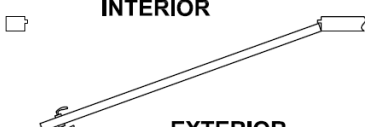


HINGE POSITIONING 1

HINGE POSITIONING 2



## Door Handing Chart

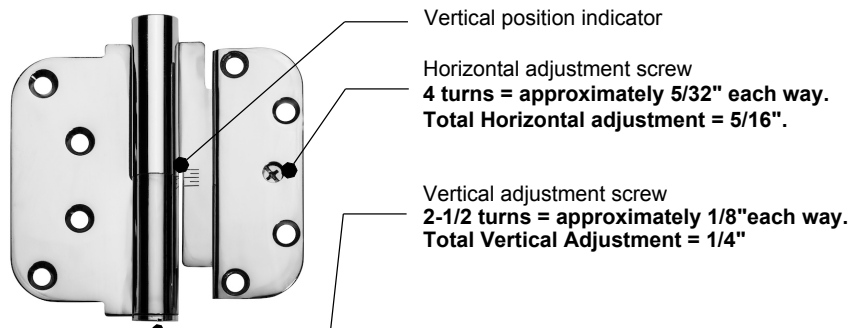
|                                                                                                                      |                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>RIGHT HAND INSWING (RHI)</b><br> | <b>LEFT HAND INSWING (LHI)</b><br>   |
| <b>LEFT HAND OUTSWING (LHO)</b><br> | <b>RIGHT HAND OUTSWING (RHO)</b><br> |

| Part No.   | Handing    | Finish                  |
|------------|------------|-------------------------|
| 12500MBL   | Left Hand  | Matt Black              |
| 12500MBR   | Right Hand | Matt Black              |
| 12500003L  | Left Hand  | Brushed Nickel          |
| 12500003R  | Right Hand | Brushed Nickel          |
| 12500TCHL  | Left Hand  | Brushed Chrome          |
| 12500TCHR  | Right Hand | Brushed Chrome          |
| 12500005L  | Left Hand  | Polished Chrome         |
| 12500005R  | Right Hand | Polished Chrome         |
| 12500006L  | Left Hand  | Antique Brass           |
| 12500006R  | Right Hand | Antique Brass           |
| 12500001L  | Left Hand  | Brass Plated            |
| 12500001R  | Right Hand | Brass Plated            |
| 12500WHL   | Left Hand  | White                   |
| 12500WHR   | Right Hand | White                   |
| 125010BSBL | Left Hand  | Solid Brass US10B       |
| 125010BSBR | Right Hand | Solid Brass US10B       |
| 1250SS08L  | Left Hand  | Brushed Stainless Steel |
| 1250SS08R  | Right Hand | Brushed Stainless Steel |

## Finishes

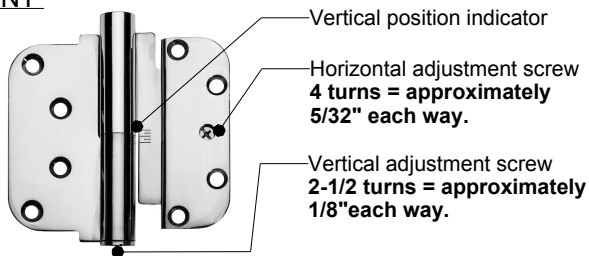


## Independent Dual Vertical and Horizontal Adjustment



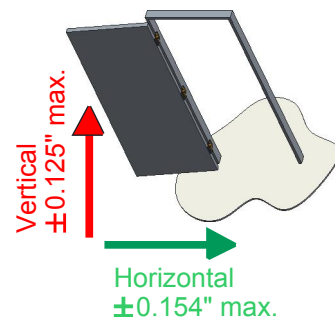
# Dual Adjustable Lift Off Hinge Adjustment Instructions

## HINGE FRONT VIEW



Hinges are preset in the mid-position to allow a 4 way adjustment

*Do not use power tools.  
Only use a Phillips hand screwdriver and a 1/4" Hex key.*

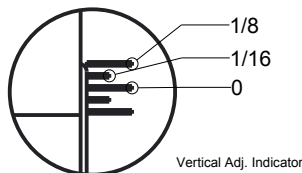
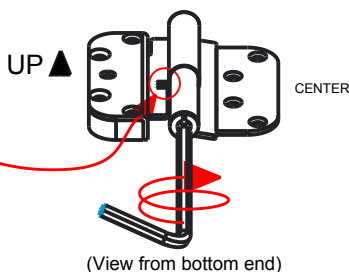


## 1. Vertical Adjustment



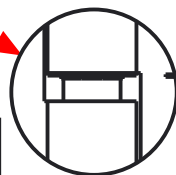
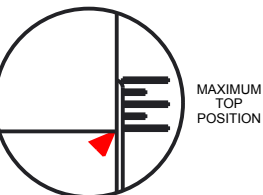
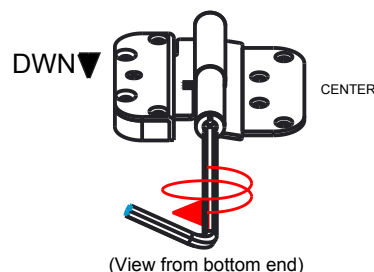
### Center Hinge.

To raise the door panel by 1/16", turn the Hex key a little over a full turn. Monitor the position of the 3 line markers on the indicator. Adjusting the door up, you may also see a gap on the top and bottom hinges.



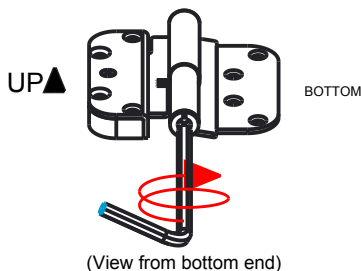
### Center Hinge.

To lower the door panel by 1/16", turn the Hex key a little over a full turn.



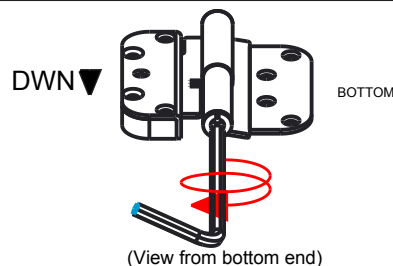
### Top and Bottom Hinge

Repeat the same number turn on the Top and Bottom hinges. Check that the line markers on the top and bottom hinges match the adjusted center hinge line marker. Do not exceed the line markers during adjustment.

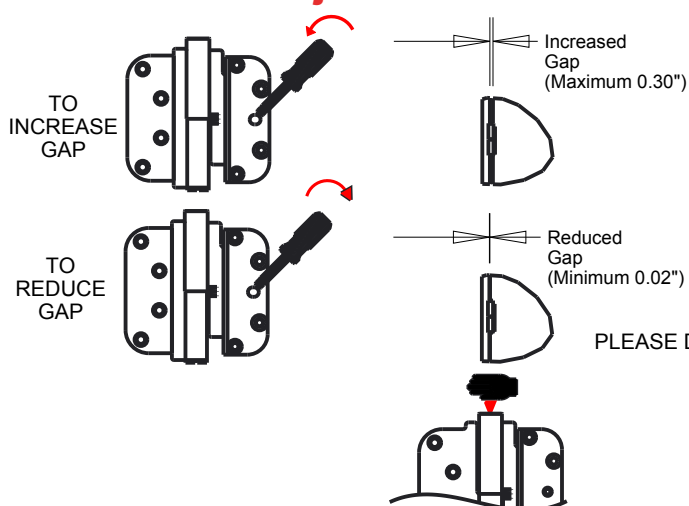


### Top and Bottom Hinge

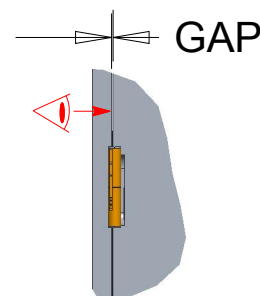
Repeat the same number of turn on the Top and Bottom hinges. The door will start to move down when adjusting the last hinge. Check that the line markers on the top and bottom hinges match the adjusted center hinge line marker.



## 2. Horizontal Adjustment



Adjust hinges as needed. Only 4 turns max are needed each way to either close or increase the gap.



Gently, push all the sleeves downward if needed to close the gap