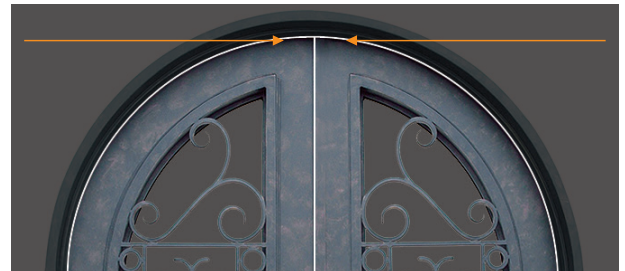


1. Check framing for correct rough opening measurements, general recommendations are for 1" clearance on the width and 1/2" on the height. Check to see if floor is level; some shimming under one jamb may be required.
2. Check framing to ensure it will be secure enough so there is no movement in the door after installation (your door installation is only as good as what you bolt to).
3. Set the frame only (without panel(s) installed) centered in the opening. Check for plumb and level. Clamp the upper flanges or manually hold the door frame in place until upper lag bolts are installed in the center of the large hole in each upper flange (*step 5*).
4. Pre-drill and install one 3/8" x 3" hex head lag bolts in the center of the large hole in each of the **bottom** flanges. One only at this point allowing for some minor adjustments during later steps.
5. When level, plumb and square pre-drill and install one 3/8" x 3" hex head lag bolt in the center of the large hole in each of the **upper** flanges (*see figure 1 above*). One only at this point again allowing for some minor adjustments during later steps.

Note: level, plumb and square is a starting point only. Later adjustments are normal when working with iron doors that may require slight out of level, plumb and square condition.

6. Hang the door panel(s) by sliding the female hinge located on the door panel over the male hinge pin on the frame. It may be helpful to hold the panel at a 90 degrees open position when performing this step.
7. Check and adjust to ensure:
 - A. Margin(s) between frame and panel(s) are consistent around the entire perimeter.
 - B. If a double door; margin between the two panels is even from top to bottom.
 - C. If a double door; panels are even with each other across the top (*see figure below*). This ensures that the lockset latch and deadbolt bolt will properly align and function.



- D. If a double door; that the inside face of the two panels are flush to one another from top to bottom, the panels are flush/even with jamb at the header and the weather-strip makes good contact around the perimeter and between the two panels at the t-astragal.

Note: the above conditions must be addressed now, not after the interior trim and exterior trim have been installed. These adjustments may require that the door be slightly out of plumb, level and square.

continued on reverse

Adjustments A, B and C are possible by moving or prying the frame side to side in the same fashion that a shim would be used. Slight additional adjustments are possible by applying the methods depicted below.

- E. A board placed between the 2 panels on a double door will increase the center margin (*figure 1 below*). Open both doors slightly and place the board where the margin is narrowest; slowly close both doors applying pressure against the board. If the center margin is tight, but equal from top to bottom two boards placed at the top and bottom simultaneously can be used. Work in increments, don't try to make the complete adjustment in a single step. Note that this may also change the relationship of the panels across the top, depending on the placement of the board (*see adjustment F for further explanation*).
- F. A board placed between the panel and jamb from the exterior and toward the top will move the panel away from the jamb and tilt the panel downward from right to left. Apply pressure by closing the panel against

the board, again using an incremental approach. If the board were placed at the bottom it would tend to move away from the jamb and tilt the panel upward from right to left. This adjustment can be done from either the exterior (*figure 2 below*) or interior (*figure 3 below*).

- G. Shim behind one or more installation flanges or in extreme cases by a combination of shimming one flange and chiseling a small route in the framing at an offsetting flange.
8. Once all adjustments are made, pre-drill and install additional 3/8" x 3" hex head lag bolts into all flanges.
9. Hang the glass panel(s) by sliding the female hinge located on the glass panel over the male hinge pin on the door panel. It may be helpful to hold the glass panel at a 90 degrees open position when performing this step.
10. Close and lock the glass panel in place.
11. For any questions or concerns that may arise during this process please call the number listed within this document for clarification and/or assistance.

figure 1



figure 2



figure 3

