Installing Interior Poors

Standard Work Practices for Habitat for Humanity of Metro Denver

Safety Notes:

- Follow all practices for safe lifting and carrying: always move doors in pairs.
- Follow all policies for safe pneumatic nailer use.
- Communicate where and how you are installing, and limit traffic through doorways where you're working before you begin.
- Never leave a door unattended until completely installed.

Get your tools:

- 6' level
- 2' 4' level
- Trim nailer (minimum 16ga.)
- 2 ½" finish nails
- Hammer
- Utility blade / shim saw



Remember:

Never leave a pneumatic nailer unattended while attached to its air hose. **Always** disconnect and set nailer out of

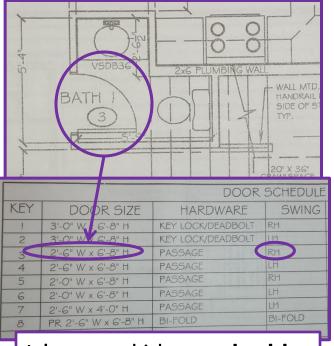
the way while not in active use.

Get your door:

- Make sure it's the right size.
- Make sure it's the right swing.



Size and swing will be written on the hinge-side of the door frame.



It's a good idea to **double- check the plans** to be
sure this is accurate.







Clean up the hinge-side of the jamb.

- Cut back any drywall edges that overhang the framing.
- Scrape off any excess mud/texture.
- Check for any nail heads sticking out, and sink them.
- If there are any big chunks or overhangs on the *handle-side* jamb, clean those off but be much pickier about the hinge-side.



Check the hinge**side** of the frame for plumb.





Shim the **top/bottom** until perfectly plumb.

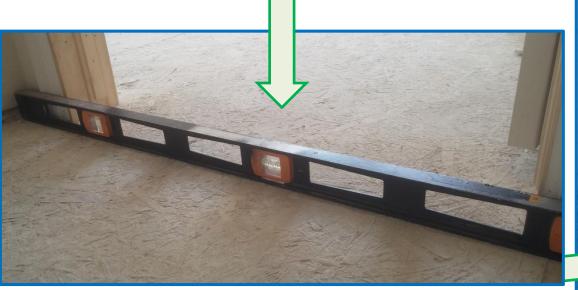


Shim the **middle** out to the edge of the level as you hold it plumb.

> Install these shims at the *height of* the door's hinges.

Check the floor for level.

- If out of level, place an appropriately-sized shim next to the lower jamb.
 - Don't nail it down; this is just temporary.





Prep the door itself.

Remove the temporary brace at the bottom.



Be sure to remove any nails/staples from the bottom of the jamb that would interfere with it sitting flat on the floor.

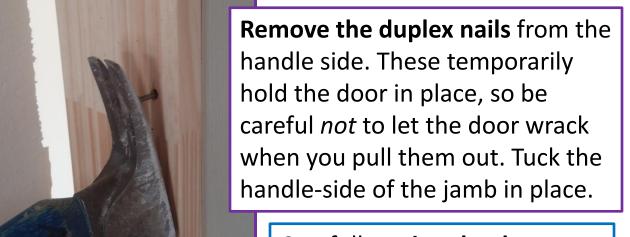


Immediately remove any nails sticking out of this board and bend over any staples.

Setting the Hinge-Side



Set the door *roughly* in place: **tuck the hinge- side** of the jamb tight into the frame.



open and rest it on something to prevent its weight from pulling the entire jamb away from the frame.

Setting the Hinge-Side

If your wall is plumb:

Line the jamb up with the edges of drywall.

If your wall is out-of-plumb:

- Offset the top and bottom of the jamb from the drywall to account for it. Split the difference between top and bottom.
- We'll fix the drywall discrepancy later when we install casing, but the door jamb has to be plumb!

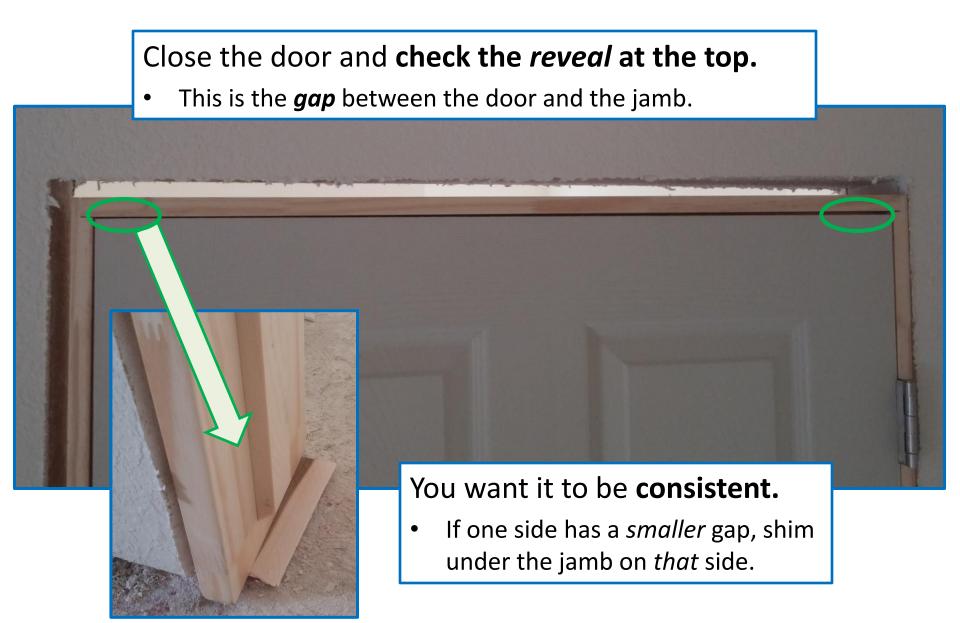
Always nail the top of the jamb first, then plumb the side of the jamb to nail the middle and bottom.

- Wherever you installed shims, be sure to nail into those shims.
- Nailing above or below them may bend (and bind) the jamb, pulling it tight to framing at the nails and pushing it out at the shims.



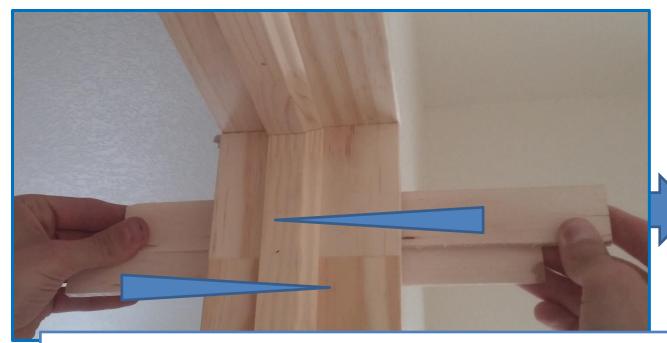
Setting the Hinge-Side





Then check the side reveal:

Start at the top corner. This reveal is set by the corner of the jamb, so shim out the distance until snug.



Always shim in pairs and alternate the angles.

- Otherwise when nailed tight to shims the jamb will be pulled out of square.
- You can use off-balance shims to correct a twisted frame.

Nail each set of shims before moving on.

- Make sure to nail through the shims.
- Use three nails at each shim.

Trim each set of shims before moving on.

 Leaving them sticking out is a safety hazard, and you'll want to use the cut scraps anyway.



Using a **utility blade**, score and snap the shims.

Using a **shim saw**, be careful not to cut the finished face of the jamb.

Make sure to cut shims cleanly. They must be flush with or set back from the edge of the door jamb and drywall or they will interfere with casing installation.

Work down the door, shimming to the same reveal.

Always plumb the jamb before nailing each set of shims.



Use a *minimum* of four sets of shims: top and bottom, then two on either side of the *handle*.

If there is a **bow in the jamb** anywhere between these points, shim and nail it straight.

Wrapping Up

Check the door:

- **Close it**; see if it swings *open*.
- Open it; see if it swings shut.
- Open it halfway; see if it swings at all.

If it doesn't move, it's good!

Check the stop:

• The door should close tight to this vertical stop from top to bottom.

If there is a gap at top or bottom:

- Re-check both jambs for plumb, and correct if necessary.
- If both jambs are plumb, use a small block as a buffer and tap the stop over with a hammer until the gap is gone.