

Chapter 18 – Installing Swinging Doors

Door & Opening Prep	<ol style="list-style-type: none"> 1. Check door/frame for damage. If damaged, notify supervisor 2. Verify door and size. Check house plan for swing and floor (carpet or hard flooring) 3. Check Jack/King studs for excessive twist. If clearly out of square and will cause problems, replace them. 4. Mark hinge side Jack stud at hinge locations and check for plumb w/6' level
Plumb Hinge Side	<ol style="list-style-type: none"> 5. If PLUMB: <ol style="list-style-type: none"> a. Measure door frame <u>at the head jamb</u> and rough opening at top/bottom hinge locations b. If difference <u>either</u> locations >5/8" proceed as follows. Otherwise go to Step 7 below <ol style="list-style-type: none"> i. Nail (with 2½" Paslode nails) combination of 1/8" & ¼" 3"x5" spacers at top & bottom hinge locations until difference is <3/8" at both locations ii. Place level against spacers, install spacers/shims at middle until flush with level. c. Proceed to Step 8 6. If NOT PLUMB <ol style="list-style-type: none"> a. Measure door frame <u>at the head jamb</u> and rough opening at top and bottom hinge locations b. If difference >5/8" either location, nail combination of 1/8" & ¼" 3"x5" spacers at top and/or bottom until <5/8" at both locations. c. Check for plumb on top/bottom spacers. Add shims at top/bottom as required. d. Verify plumb, add shims at middle for uniform contact with 6' level
Shim Strike Side	<ol style="list-style-type: none"> 7. Add layers of ¼" spacers/shims to strike side stud top/bottom hinge locations until difference in opening is <3/8" 8. Place level against spacers and Install spacers/shims at middle hinge area until flush with level
Temporarily Secure Door	<ol style="list-style-type: none"> 9. Position door on scrap floor trim (carpet) or on floor hard flooring, <u>tight</u> to hinge side, centered between wall surfaces 10. Center hinge side jamb between both wall surfaces 11. Using shims against the head jamb, temporarily wedge door against hinge side with horizontal pressure 12. Check that head jam left/right reveals are equal. Shim hinge or strike jam up if required. 13. Verify that bottom of <u>hinge</u> jamb is still centered between wall surfaces. <ol style="list-style-type: none"> a. Add spacers/shims at bottom of jamb and <u>temporarily</u> secure it with one 2½" Paslode nail <u>above the spacers/shims</u>. b. Do the same for the strike side jamb. 14. Recheck hinge side is still plumb, centered between wall surfaces
Permanently Secure Door	<ol style="list-style-type: none"> 15. Secure hinge side jamb with <u>one</u> 2½" Paslode nail at each hinge location on <u>one side</u> of doorstop and through shims. 16. Re-check plumb (on hinges) and centered in wall. Adjust as required. 17. Replace one short screw in top hinge with 3" brass screw. Adjust for top reveal 18. Recheck door operation and <u>head jamb</u> reveals. Adjust strike side jamb up/down. 19. Check complete door operation, uniform contact with door stop, latch & strike alignment, centered within wall. Adjust shims as required. 20. Check reveals at top and bottom of <u>hinge</u> jamb <ol style="list-style-type: none"> a. Shim top as required so top reveal equals reveal below top hinge. Secure with 2½" Paslode nails on one side of doorstop. b. Shim and nail bottom of hinge jamb so reveal equals reveals at top. 21. Check reveals at top and bottom of <u>strike</u> jamb (<u>minimum 1/8"</u>). Shim and nail at the bottom of jamb to achieve consistent reveals top and bottom. 22. Install and nail (same side of doorstop) remaining shims: latch side top & bottom hinge locations; above the latch location. 23. Install shims in center of head jamb, adjust for consistent reveal across jamb, and nail on one side of doorstop. 24. Re-verify contact between door and doorstop at head jamb and strike jamb. Tap 2x4 scrap on jamb (<1/8" from plaster) and/or doorstop to adjust. <u>Last resort:</u> remove/re-install doorstop. 25. Install and nail additional shims between hinge locations, strike and hinge side (total 5 shims each side). Adjust for uniform reveals. 26. At all shim locations, nail at opposite side of doorstop. 27. Recheck complete door operation and reveals and adjust if required.

Quick Reference Guide

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- Verify install for hard flooring or carpeted area
- Door opens and closes freely and latches snug to striker plate and against door stop
- Uniform reveal at top and sides between door and jamb
- Door trim fits tight to jamb (NO GAP) and is nailed properly (check visually and with “TAP TEST”) and uniform consistent reveal on ALL jambs (sides and top)
- Tight fitting and GLUED miter joints
- All nails set and puttied