

Quick Reference Guide

March 2024

Version 24.0

Chapter 18 – Installing Swinging Doors

Door & Opening Prep	<ol style="list-style-type: none"> 1. Check door/frame for damage. If damaged, notify Construction Supervisor or Site Leader 2. Verify correct door type, size, and size according to the house plan. Set door next to intended location. 3. Check Jack/King studs for excessive twist. If clearly out of square adjust with shims during installation.
Adjust <u>Hinge</u> Side Jack Stud	<ol style="list-style-type: none"> 4. Mark location of hinges on hinge and strike side Jack studs. 5. In all cases, install 3x5" shims using 1½" finish nails or 1½" collated finish nails with 5" dimension vertical and flush to the hinge pin side of the framing. 6. Using 6' level, check if the hinge-side Jack stud is plumb. If NOT PLUMB, add shims to the top and bottom hinge areas until it is plumb. 7. Measure the width of door frame <u>at the head jamb</u> and rough opening at top/bottom hinge locations <ol style="list-style-type: none"> a. If the differenced at either location is >5/8", nail a combination of 3"x5" and cardboard shims at top & bottom hinge locations until difference is <5/8" but greater than 3/8" at both locations. b. At either or both locations with a gap >3/8", add 1/8" shims to bring the gap to 3/8". 8. Keeping the 6' level against the top and bottom spacers, attach 3"x5" shims and/or tapered shims at middle hinge location until flush with level
Adjust <u>Strike</u> Side Jack Stud	<ol style="list-style-type: none"> 9. Add combination of 3"x5" and cardboard shims to strike side jack stud at top/bottom hinge locations until difference in opening is <3/8" but >1/4" at both locations. 10. Place level against spacers and Install shims at middle hinge area until flush with level
Temporarily Secure Door	<ol style="list-style-type: none"> 11. Set door in rough opening, tight to hinge side Jack stud. If in carpet area (see House Plan), set door on 3/8"-thick shim (1/8" and ¼" shims). Otherwise, set directly on hard finished flooring. 12. Using shims against the head jamb, temporarily wedge door against hinge side with horizontal pressure 13. Check that head jamb left/right reveals are equal. Shim hinge or strike jamb up or down as needed. 14. Recheck hinge side jamb is still plum 15. 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 <u>bottom</u> of jamb and <u>temporarily</u> secure it with one 2½" collated nail <u>above the spacers/shims.</u> b. Do the same for the strike side jamb. 16. Recheck hinge side is still plumb, centered between wall surfaces 17. Verify consistent door stop contact, adjust side jambs as needed
Permanently Secure Door	<ol style="list-style-type: none"> 18. With door still tight to hinge side jamb, secure with <u>one</u> 2½" collated nail at each hinge location on <u>non-hinge side</u> of doorstop and through shims. 19. Re-check plumb (on hinges) and jamb centered in wall. Adjust as required. 20. Replace one short screw in top hinge with #8 3" brass screw. Adjust for equal head jamb reveals. 21. Recheck door operation and <u>head jamb</u> reveal. Adjust strike side jamb up/down as needed 22. Verify uniform contact with door stop, latch & strike alignment, jambs centered within wall (max 1/8") past/shy of wall surface. Adjust as required. 23. Check reveals at top and bottom of <u>hinge</u> jamb <ol style="list-style-type: none"> a. Adjust shims against the head jamb as required so top reveal equals reveal below top hinge. Secure with 2½" collated nails on one side of doorstop. b. Shim and nail bottom of hinge jamb until reveal equals reveal at <u>top of bottom hinge.</u> 24. Check reveals at top and bottom of <u>strike</u> jamb (<u>minimum 1/8"</u>). Shim and nail at the bottom of jamb until equals top reveal. 25. Install and nail (<u>non-hinge</u> side of doorstop) remaining shims: strike side top & bottom hinge locations; above the latch location. 26. Install shims in center of head jamb, adjust for consistent reveal across jamb, and nail on one side of doorstop. 27. Re-verify contact between door and doorstop at head jamb and strike jamb. Tap 2x4 scrap or spacer on jamb (<1/8" from plaster) and/or doorstop to adjust. <u>Last resort:</u> remove/re-install doorstop. 28. Install and nail additional shims between hinge locations, strike and hinge side (total 6 sets of shims each side). Adjust for uniform reveals. 29. At all shim locations, nail at opposite side of doorstop. 30. Recheck complete door operation and reveals and adjust if required. 31. Install Door Trim, lockset and door stop 32. Set and putty all nail holes.

Quality Points

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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
- Appropriate door stop installed
- Appropriate lock set installed (passage or privacy type)