

Quick Reference Guide

March 2017
Version 2017.0

Chapter 9 – Installing Exterior Doors

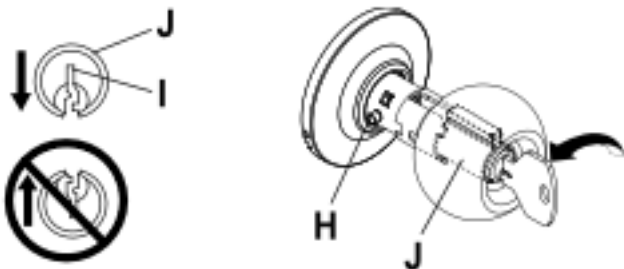
Door & Opening Preparation	<ol style="list-style-type: none"> 1. Inspect for damage. Nail accessories to king stud. 2. Verify correct door and size. Check house plan and verify swing. 3. Pre-drill 1/8" holes (5,5,3) in brickmold (<u>3" from mitered corners</u>). Angle slightly to hit studs/header. 4. Verify Weathermate Straight Flashing Tape in threshold and up 2". 5. Fold down/staple house wrap in doorway. Install "Threshold Seal" tape, snug to corners. 6. Mark hinge locations on the Jack stud and check for plumb with 6' level.
Plumb Hinge Side	<ol style="list-style-type: none"> 7. If PLUMB: <ol style="list-style-type: none"> a. Measure door frame and rough opening at top and bottom hinge locations b. If difference >5/8" nail equal number of 1/4" spacers (w/ trim nails) at top and bottom hinge locations. c. Place level against spacer, install spacers/shims at middle until flush with level. d. Proceed to Step 9 8. If NOT PLUMB: <ol style="list-style-type: none"> a. Measure door frame and rough opening at top and bottom hinge locations b. If difference >5/8" either location, nail 1/4" spacers/shims to 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"> 9. Add layers of 1/4" spacers/shims to strike side stud at top/bottom hinge locations until difference in opening is less than 3/8". 10. Place level against spacers and install spacers/shims at middle hinge area until flush with level.
Temporarily Secure the Door	<ol style="list-style-type: none"> 11. Position door <u>tight</u> to foamboard and to hinge side stud. 12. Using shims against the head jamb <u>and threshold</u>, wedge door against hinge side with horizontal pressure. 13. Check reveal between top of door and head jamb, left & right corners. Shim hinge or strike jamb up if required to equalize reveals.
Permanently Secure the Door	<ol style="list-style-type: none"> 14. With brickmold <u>tight to foamboard</u>, secure hinge side jamb with 3" drywall screws at each hinge location, <u>behind weather stripping</u> and through shims. Recheck plumb (on hinges). Adjust shims as required. 15. Replace <u>two</u> top hinge screws with #10 3" brass screw. Adjust for door top reveal. 16. Recheck <u>head jamb</u> reveals are equal at both ends. Adjust strike jamb up/down if needed. 17. Check complete door operation. Verify <ol style="list-style-type: none"> a. Uniform contact w/weatherstripping along head and strike jambs. If necessary, move/shim brickmold away from foamboard (max 1/8") b. Confirm latch & strike alignment and all reveals. Adjust shims as required. 18. Check reveals at top and bottom of the hinge jamb. <ol style="list-style-type: none"> a. Adjust tight shims against the head jamb as required until top reveal equals reveal below top hinge. b. Shim bottom of jamb to match the reveal at the top, secure with 3" drywall screw behind weather stripping. c. Check reveal top of strike jamb (minimum 1/8"). Split difference as needed. 19. Check reveals at top and bottom of the strike jamb. Shim the bottom of jamb until reveals are equal. Secure with 3" drywall screw behind the weather stripping. 20. Checking reveals, install and screw remaining shims (behind weather stripping) on strike side: across from the top and bottom hinges, above and below dead bolt location 21. Install shims in center of head jamb, adjust for consistent reveal across head jamb. Screw behind weatherstripping. 22. Recheck complete door operation, contact with weather stripping at head jamb and both side jambs, and reveals on top and both sides are consistent. Adjust as required. 23. Install and secure additional shims between hinge locations to obtain consistent reveals along both side jambs (total 5 each side plus one extra set above the deadbolt). 24. At all shim locations, nail exterior side of jamb into jack stud (between door stop & brickmold) w/16d galvanized casing nails. 25. Conduct final door operation—contact with weather stripping, reveals. Adjust if needed. 26. Nail brickmold in 13 pre-drilled locations with 16d galvanized casing nails 27. Set and caulk all nail holes.
Install Hardware	<ol style="list-style-type: none"> 28. Install lockset & deadbolt (tumblers/key points up; dead bolt and handle must move in same direction). 29. Install dead bolt special security strike plate using two long screws (provided) into jack stud. 30. Verify good operation: snug to weather stripping, easy deadbolt & lockset operation, snug latching and easy opening. 31. Install window trim caps if required (ensure correct orientation). 32. Install corner seal pads.
Weatherproof and Seal the Door	<ol style="list-style-type: none"> 33. Install Weathermate™ Straight Flashing Tape on sides/top shingle style (3/4" max onto edge of brickmold). (See manual for method). 34. Install blue tape on threshold for temporary protection 35. Install 2x4 under threshold to support lip

Quick Reference Guide

Chapter 9 – Installing Exterior Doors

- Brick mold is tight to foam on both sides
- Door opens and closes freely and latches easily and snugly to striker plates
- Door hits weather stripping evenly and no gaps or light show thru door reveals (including installation of “corner seal pads” at bottom of side jambs on weather strip side)
- Door latches and deadbolts are easy to engage and disengage
- Special “security” strike plate is installed for deadbolt with long screws provided
- Long screw(s) installed in top hinge
- Uniform reveal at top and sides (especially near lockset or deadbolt)
- Flashing tape is properly installed (shingle style and top flashing tape completely overlaps side flashing tape)
- Threshold support and cedar toe kick is properly installed
- All nails set and puttied/caulked (cedar board nails NOT caulked)
- All door trim screw hole plugs installed
- Brick mold is nailed properly (using 16d galvanized casing nails, 5 on each side and 1 in the center of top being sure to hit jack studs or header)
- Oak threshold is protected with 2 layers of masking/painters tape

To change the orientation of the exterior lockset cylinder:



- 1) Unlock the installed lockset
- 2) Insert the key HALFWAY (do NOT insert completely as it will get stuck)
- 3) Push in retainer pin on neck of knob (H) and pull knob just past this pin
- 4) Use HALFWAY inserted key to rotate the cylinder (J) to the correct orientation
- 5) Push in the retainer pin and push knob back into place
- 6) Verify Lockset still functions with key