Quick Reference Guide

Chapter 9 – Installing Exterior Doors

Door & Opening	<u> </u>	Inspect for damage. Notify SL or CS if damaged. Remove/discard shipping strike plate. Nail accessories to a king stud.
	1)	
Preparation	2)	Verify correct door type, size and swing according to the house plan. Verify hole for deadbolt. Confirm exterior door
	2)	from house to garage is "Fire Rated". If not DO NOT INSTALL. Notify supervisor.
	3)	Pre-drill 1/8" holes (5,5,1) uniformly-spaced in brickmold (<u>6" from mitered corners</u>). Angle slightly to hit studs/headers.
	4)	Keeping flush, install #8 2-1/2" trim screws through each side of the brickmold into the middle of the top brickmold.
	5)	If house wrap extends thru doorway, fold down over threshold area and staple to the deck in the doorway.
	6)	If not already installed, cut and install length of flashing tape sufficient to cover width and up 2" each side of Jack studs
		Install with about half of width on deck, half on foamboard. Cut corners, fold, attach to outside.
	7)	Install threshold seal tape snug to corners and flush to outside edge of threshold.
Adjust Hinge Side	8)	Measure the height of the hinges off the floor and mark these heights on both the hinge and strike side Jack studs
Jack Stud	9)	In all cases, install $3''x5''$ shims with 5'' dimension horizontal and flush with hinge pin side (using $1'_{4}''$ finish nails)
	10)	With 6' level check if Jack stud is plumb. If NOT PLUMB, shim top or bottom hinge locations until it is plumb
	11)	Measure width of door frame at head jamb and width of rough opening at top and bottom hinge locations
		a) If difference between door frame and rough opening at <u>either</u> location is GREATER than 5/8", attach combination of
		1/8'' & 1/4'' 3x5 shims to Jack stud top & bottom locations until difference is less than $5/8''$ at both locations. (At
		minimum, each Jack stud hinge location should have a $1/8''$ shim.)
		 b) At either or both locations, if gap is greater than 3/8", add shims to bring the gap to 3/8". c) Konning C' lovel against tan 8 better greaters, attack 1/8" and 1/" flat and (or tangend ching at middle bing).
		C) Keeping 6' level against top & bottom spacers, attach 1/8" and ¼" flat and/or tapered shims at middle hinge location until flush with the level
Adjust Strike Side	12)	Add combination of $1/8"$ and $3''$ shims to strike side Jack stud at top/bottom hinge locations until difference < $3/8"$ at
Jack Stud	,	both locations
	13)	Place level against shims and install flat and/or tapered shims at middle hinge location until flush.
Temporarily	14)	
Secure the Door	15)	
	16)	
	17)	Recheck hinge side is still plumb (set level on hinge or hinge plates)
	18)	
Permanently		With brickmold tight to foamboard, secure hinge side jamb with 2½" exterior screws at each hinge location, <u>behind</u>
Secure the Door	13)	weather stripping and through shims. Recheck plumb (on hinges). Adjust shims as required.
Secure the Boot	20)	Replace two top hinge screws with #10 3" /COMBO construction screws. (Screws can be found in Door Finish Kit. Adjust
	20,	for door top reveal.
	21)	Recheck <u>head jamb</u> reveals are equal at both ends. Adjust strike jamb up/down if needed.
		Check complete door operation including uniform contact with weatherstripping, latch and strike alignment and all
	22)	reveals. Adjust shims as required. If necessary, move/shim brickmold away from foamboard (max 1/8" gap). Shim
		behind brickmold to hold in place.
	221	
	25)	Check reveals at top and bottom of hinge jamb.
		a) Adjust/reinstall tight shims against the head jamb as required until top reveal equals reveal below top hinge.
	24	b) Shim bottom of jamb to match the reveal at the top, secure with $2\frac{y''}{2}$ exterior screw behind weather stripping.
		Check reveals top of strike and hinge jambs (minimum $1/8''$). Split difference as needed. Check reveals at the top and bottom of the strike jamb. Shim the bottom of jamb until reveals are equal.
	20)	Keeping consistent reveals top to bottom, install & screw all remaining shims (behind weather-stripping) on strike side locations: across from top/bottom hinges, above and below dead bolt location
	רכ (Install & screw shims (behind weather-stripping) at center of head jamb. Adjust for consistent reveal.
	20)	Recheck complete door operation, contact with weather-stripping and reveals at top and both sides are consistent.
	201	Adjust as required.
	29)	Install and secure additional shims between hinge locations to obtain consistent reveals along both side jambs (total 5
	201	each side plus one extra set above the deadbolt. Secure with $2\frac{1}{2}$ exterior screws behind weatherstripping.
	30)	At all shim locations, nail exterior side of jamb into jack stud about $1\frac{1}{2}-2$ from outside edge of each jamb (between
	24	doorstop and brickmold) w/16d galvanized casing nails.
		Conduct final verification of complete door operation, uniform contact with weatherstripping. Adjust as needed.
	32)	Nail brickmold in all remaining predrilled holes with 16d galvanized casing nails. Note: Drill ¼" hole in 3x5 flat shim as a
		nailing guard.
		Set and caulk all nails with white finish caulk
	34)	Install temporary threshold support (scrap 2x4 or 2x6), tight to the underside of threshold. Use four 4" timber screws.

Quality Points

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- Flashing Tape and threshold seal tape properly installed
- Brick mold is tight to foam on both sides
- Lockset and Deadbolts are installed, easy to operate, key direction is same for both with notches up, deadbolt strike moves in same direction as deadbolt knob
- Special "security" strike plate is installed for deadbolt with long screws provided
- 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)
- Long screws installed in top hinge
- Uniform reveal at top and sides (especially near lockset or deadbolt)
- Door opens and closes freely and latches easily and snugly to striker plates
- 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)
- Temporary threshold support tight to the underside of the threshold