

Chapter 17 – Cabinets – Kitchen and Bathroom

Preparation	1. Unpack. Inspect for damage. Compare sizes and number to Cabinet Plan (Plan) 2. If Plan has a microwave, verify cabinet above range is a 12" high unit (NOT a 14" high unit) 3. Remove doors and shelves. Protect vinyl floors with protective paper or cardboard 4. Set up a temporary workbench to hold materials and tools
Laying Out Kitchen Upper Cabinets	5. If using blocking, skip to step 7 below 6. If not using blocking, layout and install per sections 17.2 and 17.3 then go to step 7
Installing Kitchen Upper Cabinets	7. Temporarily assemble countertop and install toggle bolts snugly 8. Determine if any base cabinets require an end cap (See Section 17.5.13) 9. Using Cabinet Plan, mark walls where countertop and upper cabinets should end. Rip fillers if required. 10. Mark wall studs (if blocking is not installed for base cabinets) & window/sink base centerline 38" above floor. 11. Determine if filler strips are req'd between base cabinet and for upper cabinets 12. Drill 3/16" clearance holes at top/bottom of cabinets prior to lifting for installation 13. Begin installing with the upper corner cabinet. Support with 54" long 2X. Level and plumb with shims 14. Use 2 1/2" wafer heads to secure to blocking; 1 1/4" screws for support strips. 15. After mounting corner cabinet, verify spacing on each side of window will be equal. Adjust filler width as req'd. 16. Attach filler (if req'd) to adjacent cabinet stile with construction screws 17. Lift adjacent cabinet next to corner cabinet, flush stiles using quick clamps, level/plumb and loosely install top screws 18. Attach cabinet adjacent corner unit w/ 1 5/8" const. screws. Before installing, see Section 17.4.13 19. Flush up stiles, drill 1/8" pilot holes the depth of the screw and attach w/ 2 1/2" trim screws 20. Continue installation, checking for level and plumb and flushing up stile fronts. Shim as req'd. Drill 1/8" pilot holes the depth of the 2 1/2" trim screws and attach stiles with the trim screws 21. If there is an electrical box in a cabinet back, mark the outer perimeter of the box on the cabinet back. Seal around the box with air sealing caulk. Cut out along the marking and adjust box flush to inside cabinet surface 22. After upper cabinet installation, disassemble dry fit of countertop, glue spline and tighten toggle bolts
Installing Base Cabinets	23. Remove shelves, drawers and any shipping protectors from base cabinets 24. Remove any protective paper from base cabinet area 25. Set the lazy susan in place. Level and plumb. Attach to wall w/ 2 1/2" wafer head screws 26. Cut out for water lines, drain and electrical box from inside sink base back. Center sink base beneath the window. 27. Check Plan to determine filler width(s) between lazy susan unit and sink base. Attach filler to adjacent unit. 28. Check countertop length. Refer to Plan. Ensure end of countertop adjacent range is flush with cabinet above. 29. Assemble cabinets between lazy susan and range. Clamp and secure stiles. 30. Place above assembly next to lazy susan. Use level to align to upper cabinet next to range hood opening. Mount to wall. 31. Verify 30 1/8" clearance front & back for range. 32. Measure gap between corner unit and adjacent unit and rip filler to that width. Attach to stile adjacent corner unit. Repeat on refrigerator end. 33. Check top of assembled cabinets for level. Check face for straightness. Shim as required. 34. If range, frig or dishwasher are adjacent to floor corner cabinet, install a cabinet end cap between appliance & cabinet. Notch the front lower corner of the end cap to match the cabinet toe kick. See Sec. 17.5.14 for instructions on fastening the end cap 35. If there's a standalone cabinet on one end, install to wall then to a scrap 2x cleat on floor. Attach to wall first, then to the cleat through toe kick 36. Install toe kicks with 1 1/4" collated nails. Use a separate toe kick in front of future dishwasher cabinet 37. Re-install all doors and drawers. Use hinge adjustment screws to plumb and align the doors.
Installing Range Hood	38. Remove knockout from range hood. Remove and discard range hood damper 39. Determine best hole location for cord through cabinet bottom. Drill 1 1/4" spade bit hole through cabinet bottom 40. Drill four 3/16" clearance holes about 2" from each end, and 2" from front & back through cabinet bottom. Using these holes, glue & screw 1 x 4 pine strips to cabinet underside with 1 1/4" wafer head screws. 41. Remove vent extension screws. Re-secure extension to range hood with 2" wide flashing tape. Check for gaps. 42. On the wall where the hood will go, draw a 4" x 11" rectangle centered 1/2" below cabinet. Oscillating saw cut sheetrock first and remove cutout, then cut plenum metal on the lines and remove cutout 43. Apply flashing tape around cutout to seal gap between sheetrock and plenum 44. Lift range hood in place; slide vent extension into the cutout 45. Install weatherstripping on face of the sheetrock, around perimeter of the opening. Verify no gaps 46. Fasten hood to pine strips with 1 1/4" wafer head screws
Installing Kitchen Countertop	47. Draw a ref. line from each corner for 2x4 countertop corner supports. See Sec. 17.7.1 and Fig. 17.3

Installing Bathroom Vanity	48. Attach 2 x 4 support to each corner. Hold top even with drawn line and attach with 3 ½" Sheetrock screw into studs. 49. Dry fit mitered countertop in place. Check for gaps between splash & wall. If any > 1/8", scribe and belt sand off excess 50. Determine which corner support areas of the cabinets to secure the countertop 51. Draw lines along both sides of these cabinet walls 52. Turn countertop over and cut one 1x4 x 24" board for each drawn line area 53. Center boards over drawn lines but DO NOT extend boards inside sink base walls. Rest boards on sink base walls only 54. Drill three 3/16" clearance holes per side in boards and mount with 1 ¼" wafer hd. Screws to counter underside. 55. Rip a ¾"x¾" x 10" pine board. Center board at top of front sink rail. Glue and clamp flush to front edge of top rail 56. Rip a 2" wide board from a 1 x4. Length = cabinet width. Drill four 3/16" clearance holes. Glue and screw with 1 ¼" wafer heads behind countertop lip where a dishwasher will be installed 57. Cut a 1 x 4 x about 12" long board. Rip to obtain two ~ 2" wide boards. Glue and screw it behind the countertop lip, one on each side of the miter joint. Drill two 3/16" clearance holes first and secure with 1 ¼" wafer heads 58. If not pre-drilled, drill 3/16" clearance holes through each diagonal corner block req'd for fastening the countertop 59. Use 1 ¼" wafer heads to fasten cabinets through the corner blocks to the countertop underside. Verify screw length 1st 60. Secure the ¾" x ¾" x 10" sink rail piece to the blocking board under sink area countertop lip. Drill 1/8" pilot holes from underneath sink rail 61. If a pantry cabinet is placed next to countertop, it might be necessary to chisel in the proud edge of the cabinet stile to fit around the countertop 62. Re-install all doors and drawers. Use hinge adjustment screws to plumb and align the doors. 63. Determine location from Plan. Drill 1" holes for water supply lines & a 2 ½" hole for drain. 64. Level & fasten to wall studs with 2 ½" wafer head screws (or ¼" x 3" winged toggle bolts if no studs) 65. Dry fit countertop to determine if scribing & sanding are req'd. See Section 17.7.1.3 &4. 66. Turn countertop over. Glue 1" x 4" pine strips to underside at corner block locations. Drill six 3/16" clearance holes in each board and attach with 1 ¼" wafer head screws. 67. Set countertop in place & fasten to cabinet same as kitchen countertop with 1 ¼" wafer head screws 68. If a linen closet in bathroom, a notch in the proud edge of the cabinet stile was made to fit around the countertop (if req'd). Attach one side of closet to a stud with 2 ½" wafer heads and the other side with a ¼" x 3" toggle bolt
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Quality Points

Chapter 17 – Cabinets

- Cabinets have been inspected and any damage has been reported to the Construction Supervisor
- Vinyl floors have been protected with protective paper or broken down cabinet shipping boxes
- Plywood support strip heights have been verified as correct prior to installation (if using)
- Support strips ends (if using) without studs have been installed with toggle bolts & bolt holes have been sealed with caulk
- Upper cabinets have been installed 54" above the floor.
- Cabinet stiles are flush, and cabinets are level across top and front
- Cabinets are installed level across the top front and sides are plumb.
- Sink base is centered under window. Cabinets are located according to Plan and upper and base cabinet ends are aligned plumb.
- Base cabinets adjacent range and refrigerator are flush with upper cabinets
- Base cabinet ends are flush with upper cabinets.
- Holes have been cut out of sink and vanity backs for drain and water lines. Electrical box cut out and adjusted flush on back of sink base.
- Clearance for range (30 1/8") has been verified @ front & back
- End cap stiles are plumb to the upper cabinet stile.
- Range hood vent extension screws have been removed and the extension resecured to hood with flashing tape.
- Cut edges of sheetrock and range plenum are sealed with flashing tape.
- Weatherstripping between the wall and back of range hood is installed and checked to ensure seal is not leaking
- 2 x 4 x 26" countertop corner supports have been installed
- Countertop spline has been glued and pieces reassembled tight with top corner surfaces flush
- Kitchen and vanity countertops have been dry fitted to the wall, fit assessed for gaps, and sanded if required
- If there is a standalone cabinet at one end of the countertop, it is fastened with a cleat
- Toe kicks are installed and if there is a cabinet in a future dishwasher location, toe kick is butt-spliced for easy future removal
- 3/4" x ~2" pine strip has been added where dishwasher (or future dishwasher) has been installed behind countertop lip
- A 1 x 4 x ~10" pine has been ripped to ¾" square and glued and clamped to the front edge of the sink base
- A pair of 1 x 2 x 12" pine boards have been glued and clamped behind the countertop lip on each side of the miter joint
- No blocking exists inside of sink cabinet
- Countertop has been secured to base cabinets
- Bathroom vanity location verified by Cabinet Plan.
- Vanity has been leveled and fastened to the wall
- 1 x 4 pine mounting strips have been glued and screwed to underside of vanity
- Countertop has been secured to vanity base cabinet
- Shelves, drawers and doors have been re-installed. Doors are plumb and aligned.