



BEELINE
APIARIES & WOODENWARE

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Questions or comments? Call or email us!



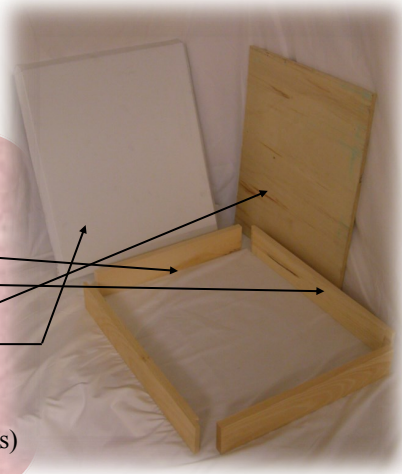
Assembly Instructions



Lid—Telescoping

Things You Will Need

- ★ End skirt— 2 (17 3/8" x 3")
- ★ Side skirt— 2 (21 3/4" x 3")
- ★ Plywood Panel— 1 (21 5/8" x 18")
- ★ Aluminum Cover— 1
- ★ Hammer
- ★ Square
- ★ Nails (specified throughout instructions)



STEP 1: Stand both end skirts on end and bridge with a side skirt. Nail each corner using two 6d sinkers. Flip and do the same to the other side.



STEP 2: Use a square to make sure your lid is square.



STEP 3: Center plywood on lid skirt, with the worst side up. Expect 1/16" to 1/8" setback. Nail fast with six nails (6d sinkers or 1 1/4" drywall nails) along side and five along end.



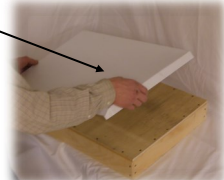
STEP 4: Now turn it on end and nail the other directions, with two 6d (or 8d for greater strength) sinkers.



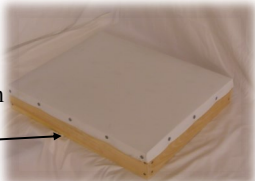
STEP 5: Lay white aluminum cover on top of lid.



STEP 6: Nail aluminum cover with aluminum trim nails—five along the side and three along the end. Nail each side corner (with ears) first, then fill in rest of nails. If you are using 1" nails, like we provide, you will need to nail them over on the inside.



STEP 7: Paint exterior with two coats of good paint.



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STEP 3: Drive tongue and groove panel and side rails to one end. Expect a difference in length. The even end will be the back of the bottom board



STEP 4: Nail side rails in place with two 6d sinkers per tongue and groove panel (a total of eight nails per side.)



STEP 5: Place both closure strips in place— the 3/4" strip on one side (side with more space) and the 3/8" strip on the other side. (side with less space)

STEP 6: Nail approx. four 1 1/4" dry-wall nails along each strip.



STEP 6: Paint exterior with two coats of good paint.



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Bottom Board — Reversible

Things You Will Need

- ★ Tongue and Groove Panel Set — 1 (21 1/2" x 15 1/4")
- ★ Closure Strips —
 - 1 (3/4" x 14 3/4")
 - 1 (3 3/8" x 14 3/4")
- ★ Side Rail — 2 (21 1/2" x 1 13/16")
- ★ Rubber Mallet
- ★ Hammer
- ★ Nails (specified throughout instructions)



STEP 1: Drive tongue and groove panels together with mallet.



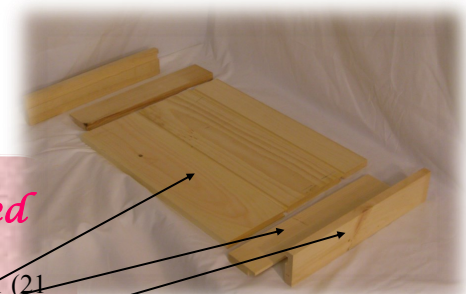
STEP 2: Drive side rails onto tongue and groove panels with a mallet.



Lid — Migratory

Things You Will Need

- ★ Top Tongue and Groove Panel — 1 (21 5/8" x 15 1/4")
- ★ Top Cleats — 2 (16 1/4" x 3")
- ★ End Cleats — 2 (16 1/4" x 3")
- ★ Rubber Mallet
- ★ Hammer
- ★ Square
- ★ Nails (Specified throughout instructions)



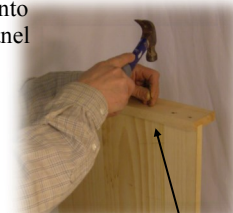
STEP 1: Drive tongue and groove panel together with mallet.



STEP 2: Drive end cleats onto tongue and groove panel with a rubber mallet.



STEP 3: Nail end cleats to tongue and groove panel with 6d sinkers (two nails per panel).

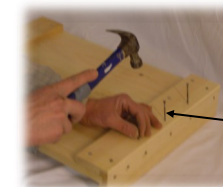


STEP 4: Lay top cleat on.

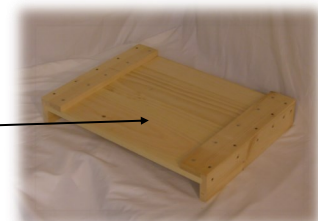
STEP 5: Nail top cleat on, using six 1 1/4" dry-wall nails.



STEP 6: Nail outer edge also, using five 6d nails.



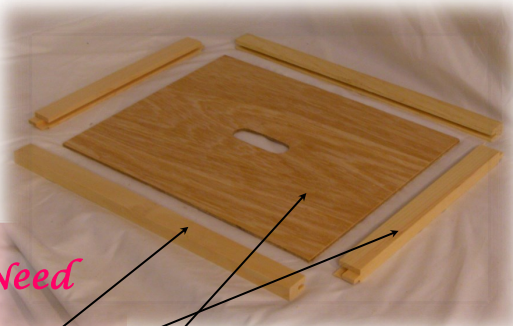
STEP 7: Paint exterior with two coats of good paint.



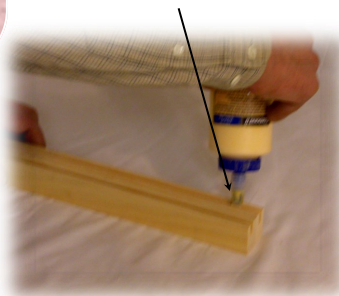
Inner Cover— Raised Panel

Things You Will Need

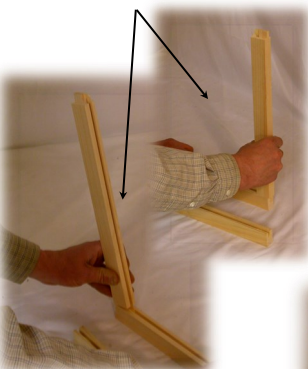
- ★ Side rail— 2 (19 7/8" x 1 1/4")
- ★ End rail— 2 (14 3/4" x 1 1/4")
- ★ Plywood Panel— 1 (18 1/2" x 14 5/8")
- ★ Wood Glue
- ★ Mallet
- ★ Hammer
- ★ Nails— 8 (3/4" X 18 gauge)



STEP 1: Lay side rails side by side and squeeze a dot of glue at each end of each rail.



STEP 2: Insert end rails into one of the side rails.



STEP 3: Slide plywood panel into end and side rails.

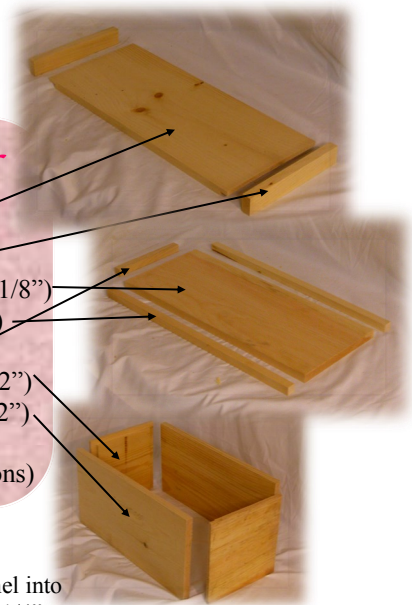


STEP 4: Work other side rail onto top.

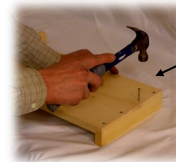
Economy Nuc

Things You Will Need

- ★ Lid Panel— 1 (21 5/8" x 9 1/8")
- ★ End Cleats— 2 (9 1/8" x 1 1/2")
- ★ Bottom Board Panel— 1 (21 5/8" x 9 1/8")
- ★ Side Strips— 2 (3/4" x 3/4" x 21 5/8")
- ★ End strip— 1 (3/4" x 3/4" x 7 5/8")
- ★ Nuc Box End Panel— 2 (9 1/8" x 9 1/2")
- ★ Nuc Box Side Panel— (19 1/8" x 9 1/2")
- ★ Hammer
- ★ Nails— (Specified throughout directions)

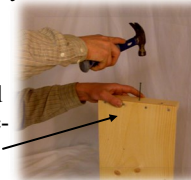


Lid

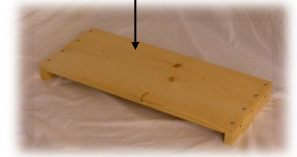


STEP 1: Nail through lid panel into end cleats using four 1 1/4" drywall nails

STEP 2: Stand lid on end and nail other direction using three 6d sinkers.

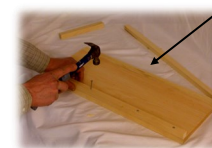


STEP 3: Paint exterior with two coats of good paint.



Bottom Board

STEP 1: Nail one side strip on with four 1 1/4" drywall nails.



STEP 2: Nail end strip in place with three drywall nails. Then nail other side strip on with four nails.



STEP 3: Paint exterior with two coats of good paint.



Nuc Box

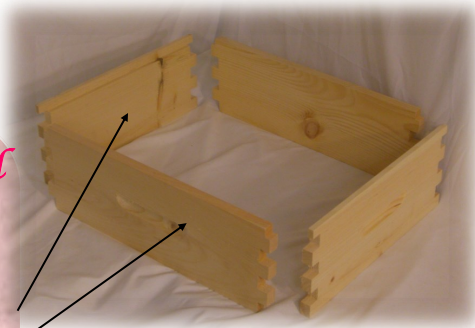


STEP 1: Assemble nuc box using Rabbeted Joint Box instructions. Paint exterior with two coats of good paint.

Finger Joint Boxes — Deep, Medium, and Shallow

Things You Will Need

- ★ End panels— 2 (16 1/4" x 9 1/2" - Deep, 6 5/8" - Medium, or 5 3/4" - Shallow)
- ★ Side panels— 2 (19 7/8" x 9 1/2" - Deep, 6 5/8" - Medium, or 5 3/4" - Shallow)
- ★ Rubber mallet
- ★ Square
- ★ Hammer
- ★ Nails— 6d or 8d sinkers (Number varies according to box size.)



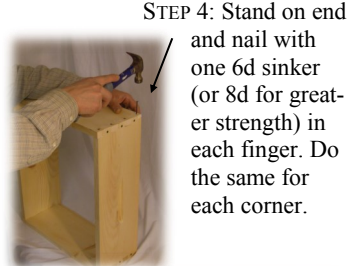
STEP 1: Lay one end panel on flat surface. Then drive side panels down into end panel using a rubber mallet.



STEP 2: Lay other end panel down and turn box upside down on top of it. Drive sides into end. Re-drive all corners till it is perfectly together. It will be a tight fit. This is on purpose and makes it very rot resistant.

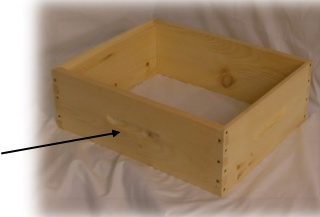


STEP 3: Use your square to check whether the box is square.



STEP 4: Stand on end and nail with one 6d (8d for greater strength) sinker in each finger in each corner. Do the same for each corner.

STEP 5: Turn on side and nail with one 6d (8d for greater strength) sinker in each finger in each corner.



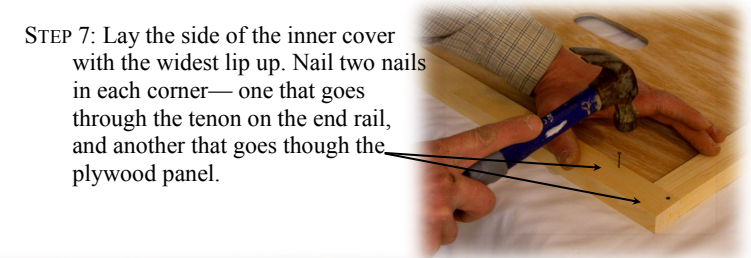
STEP 6: Paint exterior with two coats of good paint.



STEP 5: Using your mallet, hammer all four corners to make sure they are even with each other.



STEP 6: Use your square to make sure your inner cover is square.



STEP 7: Lay the side of the inner cover with the widest lip up. Nail two nails in each corner— one that goes through the tenon on the end rail, and another that goes through the plywood panel.

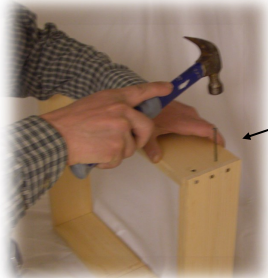


Finished and ready for the bee yard.

Top Feeder

Things You Will Need

- ★ End Panel— 2 (16 1/4" x 4")
- ★ Side Panel— 2 (19 1/8" x 4")
- ★ Webs— 2 (15 1/2" x 3 1/2")
- ★ Plywood Bottoms— 2 (15 1/2" x 8 3/4")
- ★ Hammer
- ★ Culk
- ★ Nails (Specified throughout instructions)



STEP 2: Turn on side and nail using two 6d sinkers (or 8d for greater strength.)

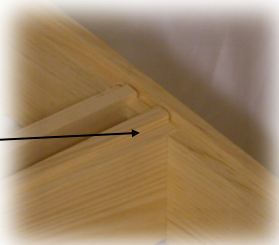


STEP 1: Stand both side panels on end and bridge with an end panel. Nail using three 6d sinkers. Overturn and do the same for the other end.

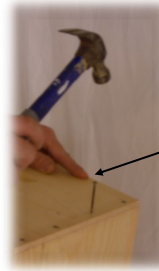
STEP 3: Insert webs into the center of feeder.



STEP 4: Turn upside down and make sure dados in center webs match dados on side panels.

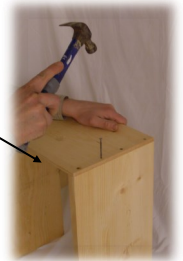


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STEP 1: Stand both side panels up and lay one end panel across the top.

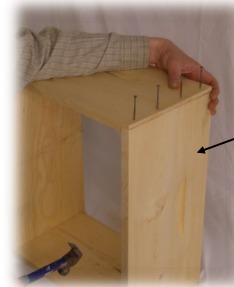
STEP 2: Nail at each end.



STEP 3: Flip upside down and lay other end across both sides.



STEP 4: Nail across each end.



STEP 5: Use your square to make sure the box is square.



STEP 6: Nail each corner through the side panel to the end panel, slanting slightly.

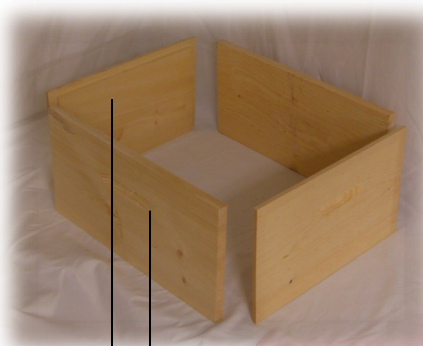


STEP 7: Paint exterior with two coats of good paint.



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Rabbetted Joint Boxes — Deep, Medium, and Shallow



Things You Will Need

- ★ End panels— 2 (16 1/4" x 9 1/2" - Deep, 6 5/8" - Medium, or 5 3/4" - Shallow)
- ★ Side Panels— 2 (19 1/8" x 9 1/2" Deep, 6 5/8" - Medium, or 5 3/4" - Shallow)
- ★ Hammer
- ★ Square
- ★ Nails— See chart below

Number and Type of Nails for Different Sizes of Rabbetted Boxes

Deeps (on each corner)

Four 6d sinkers through end panel to side panel
Four 6d (or 8d for greater strength) sinkers through side panel to end panel

Mediums (on each corner)

Four 6d sinkers through end panel to side panel
Three 6d (or 8d for greater strength) sinkers through side panel to end panel

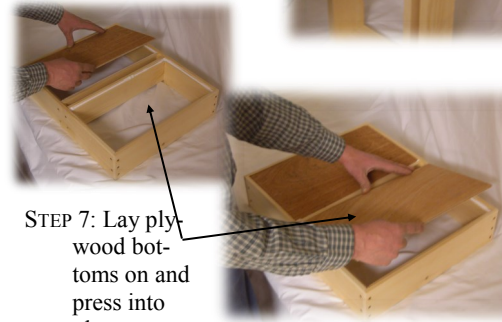
Shallows (on each corner)

Three 6d sinkers through end panel to side panel
Three 6d (or 8d for greater strength) sinkers through side panel to end panel

STEP 5: Nail webs into place using two 6d sinkers on each end of each web.



STEP 6: Turn feeder upside down and run a bead of caulking around each side.



STEP 7: Lay plywood bottoms on and press into place.

STEP 8: Tack plywood in place with four 1 1/4" drywall nails on all sides and three on all ends.



STEP 9: Melt wax or paraffin on stove using low heat.



STEP 10: Dip a ladle full into one side.



STEP 11: Tilt around till all seams and corners are sealed with wax.

STEP 12: Drain back into kettle. Then do other side the same way.



STEP 13: Paint exterior with two coats of good paint.

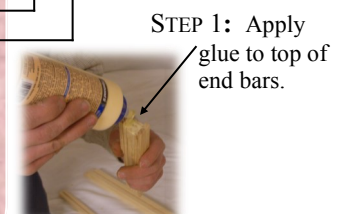


Frame—

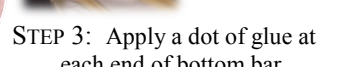
Deep,
Medium
or Shallow

Things You Will Need

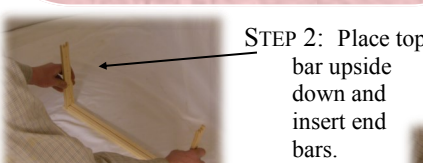
- ★ Top bar— 1
- ★ End bar— 2
- ★ Bottom Bar— 1
- ★ Foundation— 1 sheet (wax or plastic)
- ★ Wood Glue
- ★ Hammer
- ★ Utility Knife (if using wedged top bar)
- ★ Nails— 10 (1 1/4"X17 gauge)
- ★ 4-5 (5/8"X19 gauge) - for wax foundation
- ★ Support Pins to secure foundation— 4



STEP 1: Apply glue to top of end bars.



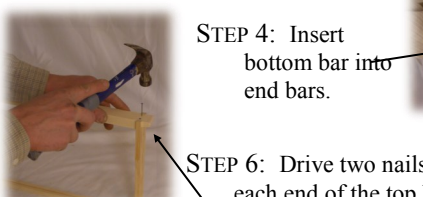
STEP 3: Apply a dot of glue at each end of bottom bar.



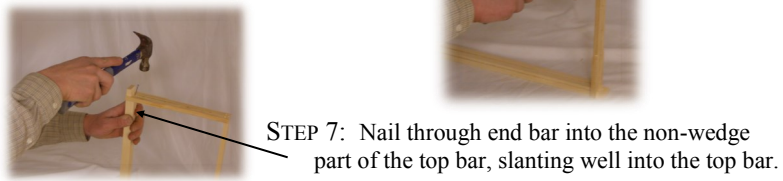
STEP 2: Place top bar upside down and insert end bars.



STEP 5: Drive two nails in each end of the bottom bar, as shown.



STEP 4: Insert bottom bar into end bars.
STEP 6: Drive two nails in each end of the top bar as shown.

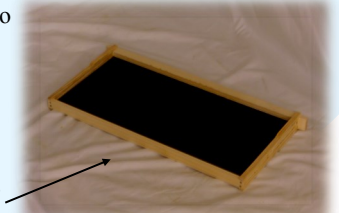


STEP 7: Nail through end bar into the non-wedge part of the top bar, slanting well into the top bar.

Plastic Foundation

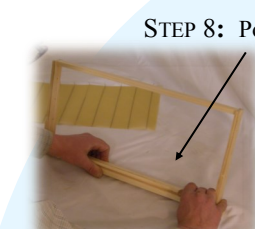


STEP 8: Snap plastic foundation into place.

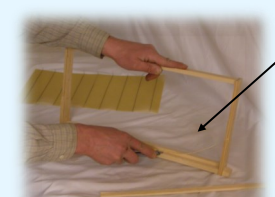


STEP 9: Your frame is ready for the beehive.

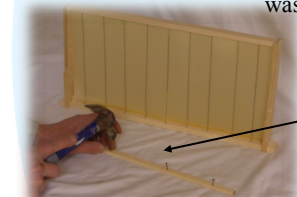
Wax Foundation



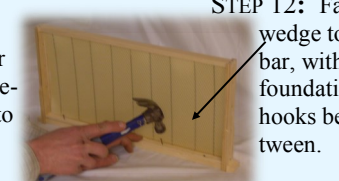
STEP 8: Pop wedge out of top bar.



STEP 9: Use utility knife to cut remainder of wedge out.

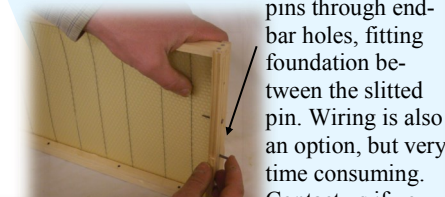


STEP 10: Insert wax foundation into bottom bar, fitting the hooks into the slot from which the wedge was removed.



STEP 11: Tack four or five 5/8" wire-headed nails into wedge.

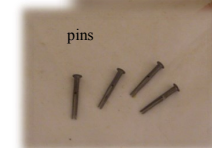
STEP 12: Fasten wedge to top bar, with foundation hooks between.



STEP 13: Push support pins through end-bar holes, fitting foundation between the slitted pin. Wiring is also an option, but very time consuming. Contact us if you need more information.



STEP 14: Your frame may now be inserted into the bee box.



pins